

(51) International Patent Classification:

A63F 13/86 (2014.01) A63F 13/798 (2014.01)

A63F 13/67 (2014.01)

(21) International Application Number:

PCT/US2024/034383

(22) International Filing Date:

17 June 2024 (17.06.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

18/335,733 15 June 2023 (15.06.2023) US

(71) Applicant: GUARDIANGAMER, INC. [US/US]; 16057 Shannon Road, Los Gatos, CA 95032 (US).

(72) Inventors: VOGEL, Henderika; 16057 Shannon Road, Los Gatos, CA 95032 (US). BROCKMANN, Ronald, Alexander; 16057 Shannon Road, Los Gatos, CA 95032 (US). HOEBEN, Maarten; 16057 Shannon Road, Los Gatos, CA 95032 (US).

(74) Agent: CRISMAN, Douglas, J. et al.; Morgan Lewis & Bockius LLP, 1400 Page Mill Road, Palo Alto, CA 94304 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(54) Title: MONITORED ONLINE EXPERIENCE SYSTEMS AND METHODS

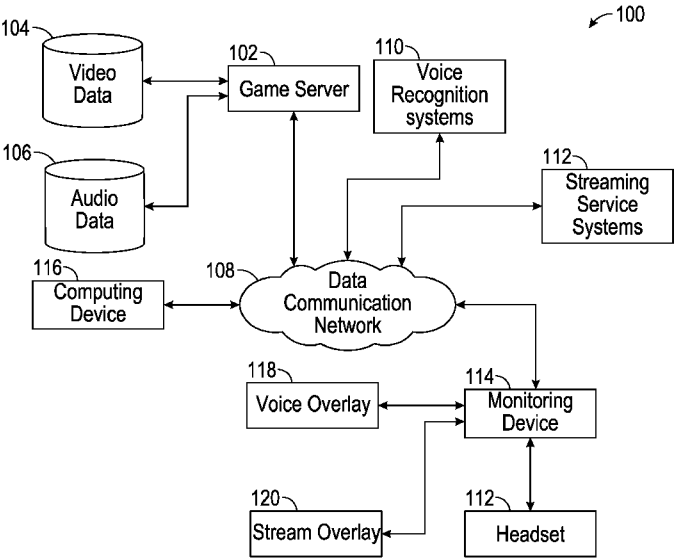


FIG. 1

(57) Abstract: Example monitored online experience systems and methods are described. In one implementation, techniques initiate an online gaming experience with a first user and associate a second user with the online gaming experience. The techniques receive audio data from a game server and receive a voice overlay from the second user. During the online gaming experience, the techniques play the audio data in a speaker proximate the first person and play the voice overlay in the speaker proximate the first person. Media data for a game session, such as video and chat data may be input to an LLM along with a prompt relating to a behavioral focus to identify fragments of the media data, which is then combined to generate a highlight reel.

(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

Monitored Online Experience Systems and Methods

RELATED APPLICATIONS

[0001] This application claims priority to U.S. Patent Application No. 18/335,733, filed June 15, 2023, entitled “Monitored Online Experience Systems and Methods,” which is a continuation-in-part of U.S. Patent Application No. 17/547,984, filed December 10, 2021, which claims the priority benefit of U.S. Provisional Application No. 63/124,604, filed December 11, 2020, each of which is incorporated by reference herein in its entirety.

TECHNICAL FIELD

[0002] The present disclosure relates to systems and methods that provide a monitored online experience, such as a monitored online gaming experience.

BACKGROUND

[0003] Online video gaming and other online experiences are played by a diverse cross-section of the population. Parents and legal guardians often monitor the games played by their children and other online activities in which their children participate. But many parents have difficulty tracking and understanding their child's online activities. Further, parents do not typically have any visibility into the online experiences of their children. As a result, many parents have difficulty connecting with or monitoring their child's online experience. Parents may also find it difficult to safeguard their children from inappropriate behavior and inappropriate communication by others online.

BRIEF DESCRIPTION OF THE DRAWINGS

[0004] For a better understanding of the aforementioned systems, methods, and graphical user interfaces, as well as additional systems, methods, and graphical user interfaces that provide data visualization analytics and data preparation, reference should be made to the Description of Implementations below, in conjunction with the following drawings in which like reference numerals refer to corresponding parts throughout the figures.

[0005] Non-limiting and non-exhaustive embodiments of the present disclosure are described with reference to the following figures, wherein like reference numerals refer to like parts throughout the various figures unless otherwise specified.

[0006] FIG. 1 is a block diagram illustrating an environment within which an example embodiment may be implemented.

[0007] FIG. 2 is a block diagram illustrating an embodiment of a monitoring device.

[0008] FIG. 3 is a flow diagram illustrating an embodiment of a process for monitoring an online experience.

[0009] FIG. 4 is a flow diagram illustrating an embodiment of a process for monitoring an online experience with a voice overlay.

[0010] FIG. 5 illustrates an example embodiment of an environment for monitoring and guiding online gaming for a user.

[0011] FIG. 6 illustrates an example embodiment of settings and information associated with a monitoring session.

[0012] FIG. 7 illustrates an example process for discovering guardian listings.

[0013] FIG. 8 illustrates an example process for creating a guardian profile.

[0014] FIG. 9 illustrates an example process for creating a parent or family profile.

[0015] FIG. 10 illustrates an example process for scheduling a guardian for a gaming session.

[0016] FIG. 11 illustrates an example architecture within which an example embodiment may be implemented.

[0017] FIG. 12 illustrates an example transactional process diagram.

[0018] FIG. 13 illustrates an example block diagram of a computing device.

[0019] FIG. 14 illustrates an example architecture for the automated summarization of gaming sessions.

[0020] FIG. 15 is an example interface for viewing summaries of gaming sessions.

[0021] FIG. 16 is a process flow diagram of a method for the automated summarization of gaming sessions.

[0022] FIGS. 17-19 are example interfaces for an account holder to interact with a system for generating the automated summarization of gaming sessions.

[0023] Reference will now be made to implementations, examples of which are illustrated in the accompanying drawings. In the following description, numerous specific

details are set forth in order to provide a thorough understanding of the present invention. However, it will be apparent to one of ordinary skill in the art that the present invention may be practiced without requiring these specific details.

DESCRIPTION OF IMPLEMENTATIONS

[0024] In some embodiments, the systems and methods discussed herein provide guidance technology and infrastructure for creating a monitored online gaming experience for children and parents. In particular embodiments, parents or other users can monitor a child's activity as they participate in an online gaming experience or other online experience. Although particular examples discussed herein refer to a monitored online gaming experience, the described systems and methods can be used with any type of online experience and is not limited to online gaming experiences.

[0025] In the following disclosure, reference is made to the accompanying drawings, which form a part hereof, and in which is shown by way of illustration specific implementations in which the disclosure may be practiced. It is understood that other implementations may be utilized and structural changes may be made without departing from the scope of the present disclosure. References in the specification to “one embodiment,” “an embodiment,” “an example embodiment,” etc., indicate that the embodiment described may include a particular feature, structure, or characteristic, but every embodiment may not necessarily include the particular feature, structure, or characteristic. Moreover, such phrases are not necessarily referring to the same embodiment. Further, when a particular feature, structure, or characteristic is described in connection with an embodiment, it is submitted that it is within the knowledge of one skilled in the art to affect such feature, structure, or characteristic in connection with other embodiments whether or not explicitly described.

[0026] Implementations of the systems, devices, and methods disclosed herein may comprise or utilize a special purpose or general-purpose computer including computer hardware, such as, for example, one or more processors and system memory, as discussed herein. Implementations within the scope of the present disclosure may also include physical and other non-transitory computer-readable media for carrying or storing computer-executable instructions and/or data structures. Such non-transitory computer-readable media can be any available media that can be accessed by a general purpose or special purpose computer system. Non-transitory computer-readable media that store computer-executable instructions are computer storage media (devices). Non-transitory computer-readable media that carry

computer-executable instructions are transmission media. Thus, by way of example, and not limitation, implementations of the disclosure can comprise at least two distinctly different kinds of non-transitory computer-readable media: computer storage media (devices) and transmission media.

[0027] Computer storage media (devices) includes RAM, ROM, EEPROM, CD-ROM, solid state drives (“SSDs”) (e.g., based on RAM), Flash memory, phase-change memory (“PCM”), other types of memory, other optical disk storage, magnetic disk storage or other magnetic storage devices, or any other medium which can be used to store desired program code means in the form of computer-executable instructions or data structures and which can be accessed by a general purpose or special purpose computer.

[0028] An implementation of the devices, systems, and methods disclosed herein may communicate over a computer network. A “network” is defined as one or more data links that enable the transport of electronic data between computer systems and/or modules and/or other electronic devices. When information is transferred or provided over a network or another communications connection (either hardwired, wireless, or a combination of hardwired or wireless) to a computer, the computer properly views the connection as a transmission medium. Transmission media can include a network and/or data links, which can be used to carry desired program code means in the form of computer-executable instructions or data structures and which can be accessed by a general purpose or special purpose computer. Combinations of the above should also be included within the scope of non-transitory computer-readable media.

[0029] Computer-executable instructions comprise, for example, instructions and data which, when executed at a processor, cause a general purpose computer, special purpose computer, or special purpose processing device to perform a certain function or group of functions. The computer executable instructions may be, for example, binaries, intermediate format instructions such as assembly language, or even source code. Although the subject matter is described in language specific to structural features and/or methodological acts, it is to be understood that the subject matter defined in the appended claims is not necessarily limited to the described features or acts described herein. Rather, the described features and acts are disclosed as example forms of implementing the claims.

[0030] Those skilled in the art will appreciate that the disclosure may be practiced in network computing environments with many types of computer system configurations, including, personal computers, desktop computers, laptop computers, message processors, hand-held devices, multi-processor systems, microprocessor-based or programmable consumer

electronics, network PCs, minicomputers, mainframe computers, mobile telephones, PDAs, tablets, pagers, routers, switches, various storage devices, and the like. The disclosure may also be practiced in distributed system environments where local and remote computer systems, which are linked (either by hardwired data links, wireless data links, or by a combination of hardwired and wireless data links) through a network, both perform tasks. In a distributed system environment, program modules may be located in both local and remote memory storage devices.

[0031] Further, where appropriate, functions described herein can be performed in one or more of: hardware, software, firmware, digital components, or analog components. For example, one or more application specific integrated circuits (ASICs) can be programmed to carry out one or more of the systems and procedures described herein. Certain terms are used throughout the description and claims to refer to particular system components. As one skilled in the art will appreciate, components may be referred to by different names. This document does not intend to distinguish between components that differ in name, but not function.

[0032] It should be noted that the sensor embodiments discussed herein may comprise computer hardware, software, firmware, or any combination thereof to perform at least a portion of their functions. For example, a sensor may include computer code configured to be executed in one or more processors, and may include hardware logic/electrical circuitry controlled by the computer code. These example devices are provided herein for purposes of illustration, and are not intended to be limiting. Embodiments of the present disclosure may be implemented in further types of devices, as would be known to persons skilled in the relevant art(s).

[0033] At least some embodiments of the disclosure are directed to computer program products comprising such logic (e.g., in the form of software) stored on any computer useable medium. Such software, when executed in one or more data processing devices, causes a device to operate as described herein.

[0034] Children access different video gaming platforms using a computer or a gaming console connected to the internet (online) or via a local area network (LAN). Online video games often have less control for parents to supervise their children's activities. In many gaming environments, children have the option to play online games while communicating with other gamers via text chat, voice chat, and/or video chat. Parents often don't know who their children are talking/communicating to on these communication channels.

[0035] Children often make new friends who are also playing the online games. However, children may have difficulty filtering “good friends” from bad people who may harm the child or their online account. Without adult supervision, a child may develop an online friendship with an inappropriate or dangerous person.

[0036] FIG. 1 is a block diagram illustrating an environment 100 within which an example embodiment may be implemented. As shown in FIG. 1, a game server 102 interacts with video data store 104 and audio data store 106. Game server 102 can execute and manage one or more games (e.g., online games) that are played by any number of players. Video data store 104 may be used by game server 102 to generate video portions of one or more games. Additionally, game server 102 may store images and other video information in video data store 104. Audio data store 106 may be used by game server 102 to generate audio portions of one or more games. Additionally, game server 102 may store sounds and other audio information in audio data store 106.

[0037] Game server 102 communicates with other devices and systems using a data communication network 108. Data communication network 108 includes any type of network topology using any communication protocol. Additionally, data communication network 108 may include a combination of two or more communication networks. In some embodiments, data communication network 108 includes a cellular communication network, the Internet, a local area network, a wide area network, or any other communication network. In environment 100, data communication network 108 allows communication between game server 102 and other components and systems as shown in FIG. 1.

[0038] One or more streaming service systems 112 stream games and other content to any number of devices and systems via data communication network 108. In some embodiments, streaming service systems 112 may stream game data, gaming information, and other content to a monitoring device 114 and a computing device 116. Additionally, a particular streaming service system 112 may stream game data and other information to a device associated with a parent of a child participating in a gaming session. In some embodiments, parents are required to provide consent for streaming game data associated to their child to other users. One or more voice recognition systems 110 may provide various voice recognition operations for the other components and systems shown in environment 100, such as game server 102, monitoring device 114, and computing device 116.

[0039] As discussed herein, monitoring device 114 may support one or more monitored online experiences, such as a monitored online gaming experiences. Additional details

regarding the operation and functions of monitoring device 114 are discussed herein. As shown in FIG. 1, monitoring device 114 is coupled to a voice overlay 118, a stream overlay 120, and a headset 122. Voice overlay 118 includes data associated with one or more voice overlays (e.g., voice comments or instructions generated by a user), as discussed herein. For example, the voice overlays may include real time instructions for a child playing a game that give tips, suggestions, or other information related to the game being played, the current game situation, friends requesting to join the game, and the like. In some embodiments, the voice overlays may also include audio statements by a child, a friend, another user, a parent, and the like associated with an online gaming experience. Stream overlay 120 includes data associated with an online gaming experience (or other online experience) that may be received from streaming service systems 112 or any other system. Headset 122 includes at least one speaker for playing audio data (e.g., game data and/or voice overlay data) to a participant in the online gaming experience (or other online experience).

[0040] In some embodiments, conversational scripts by a human mentor or other user may be associated with a code of conduct (or pledge) by which mentors teach and play games. In other embodiments, one or more conversational artificial intelligence systems may be used to control conversational scripts or monitor communications by mentors to confirm that the mentors are teaching and playing games according to the code of conduct.

[0041] In some embodiments, computing device 116 is operated by a user, such as a parent of a child involved in an online gaming experience. In other embodiments, computing device 116 is operated by a mentor, a coach, a monitor, a supervisor, or a guardian who is providing feedback, instructions, coaching, encouragement, or other information to the person (e.g., child) involved in the online gaming experience. As used herein, a guardian may be a verified mentor (e.g., verified by GGCertifier). In some embodiments, a mentor may be actively participating in a game with a child or other user. In other embodiments, the monitor may “follow” the child as they play the game and stream that “following video and data” to a parent of the child. Alternatively, a user (e.g., a parent) may be watching another user (e.g., their child) play a game.

[0042] In some embodiments, a monitor is the recorder of audio associated with a gaming session. The monitor may also have access to a report associated with a gaming session (e.g., a report sent to a parent of a child participating in the gaming session). For example, the monitor may analyze the report and distinguish recordings based on known voices, which may provide additional interpretations of what occurred during the gaming session. These additional

interpretations can be added to the report that is sent to the parent. The additional interpretations may also generate a list of friends associated with the gaming session. If unknown friends are identified, it may lead to an inquiry by the parent asking the child to identify the friends. This information may be stored in a FriendList of the child if the parent gives consent for the interaction with the friend(s).

[0043] It will be appreciated that the embodiment of FIG. 1 is given by way of example only. Other embodiments may include fewer or additional components without departing from the scope of the disclosure. Additionally, illustrated components may be combined or included within other components without limitation.

[0044] FIG. 2 is a block diagram illustrating an example embodiment of monitoring device 114. As shown in FIG. 2, monitoring device 114 includes a communication manager 202, a processor 204, and a memory 206. Communication manager 202 allows monitoring device 114 to communicate with other systems and components. Processor 204 executes various instructions to perform the functionality provided by monitoring device 114, as discussed herein. Memory 206 stores these instructions as well as other data used by processor 204 and other modules and components contained in monitoring device 114.

[0045] Additionally, monitoring device 114 includes an audio data manager 208 and a video data manager 210. Audio data manager 208 manages audio data, including communicating audio data to or from other components or systems, such as a speaker in headset 122. Video data manager 210 manages video data, including communicating video data to or from other components or systems.

[0046] A voice overlay module 212 manages various voice overlay operations, as discussed herein. A stream overlay module 214 manages various stream overlay operations, such as those discussed herein. A headset manager 216 manages audio data provided to headset 122, such as audio data from a game, a voice overlay, and the like.

[0047] Additionally, monitoring device 114 includes a session booking module 218 that assists with booking online sessions (e.g., online gaming experiences) that include a participant in the online session as well as one or more other users, such as parents, mentors, coaches, monitors, supervisors, or guardians. A game communication manager 220 manages various communications associated with a game, such as communications with game server 102, computing device 116, and the like. A game session manager 222 handles the management of one or more game sessions, as discussed herein.

[0048] A live streaming manager 224 handles various functions associated with streaming services and streamed data. A user account manager 226 manages a variety of functions associated with user accounts, such as child accounts, parent accounts, mentor accounts, and the like. A report manager 228 handles various functions associated with generating, distributing, and storing reports associated with any number of online gaming experiences and other types of sessions.

[0049] FIG. 3 is a flow diagram illustrating an embodiment of a process 300 for monitoring an online experience. Initially, a monitoring device schedules or initiates 302 a monitored online experience with a first user. In some embodiments, the first user is a child who will be actively participating in the monitored online experience, such as a gaming experience. The monitoring device identifies or selects 304 a second user associated with the monitored online experience. In some embodiments, the second user is a parent of the first user, a mentor, a coach, a monitor, a supervisor, or a guardian. The second user may simply monitor the activities of the first user in the monitored online experience. In other situations, the second user may provide suggestions, feedback, coaching, instructions, and the like to the first user during the monitored online experience. The second user is not actively participating in the monitored online experience with the first user. Instead, the second user watches (or monitors) the activities of the first user and provides appropriate suggestions, feedback, coaching, instructions, and the like to the first user.

[0050] Process 300 continues as the monitoring device accesses 306 data associated with the second user. The data from the second user may include profile information, gaming experience, information related to previously monitored online experiences, and the like. The monitoring device then accesses 308 data associated with a game to be played by the first user and monitored by the second user.

[0051] In some embodiments, the first user may talk to the second user, other friends, other users, parents, and the like. Additionally, the first user may listen to voice statements by the second user, other friends, other users, parents, and the like. In particular implementations, any of the first user, the second user, other friends, other users, parents, and the like may communicate via text messages, chat messages, or any other messaging or communication mechanism. In some embodiments, the systems and methods described herein may prevent certain communications that violate communication policies, user profile settings, parent safety settings, and the like. For example, communication policies may prevent a child from communicating with other users who have not been approved by a parent or legal guardian.

Additionally, user profile settings may restrict the type of communications (and/or the people) in which a particular child can engage.

[0052] The monitoring device continues by initiating and monitoring 310 the game experience (or other online experience) at the scheduled time. The monitoring device also captures and saves 312 activities and data associated with the game experience. In some embodiments, the monitoring device may send the activities and data associated with the game experience to another user, such as a parent of the first user or a monitor, in real time (e.g., during the live game experience). When the game finishes, the monitoring device sends 314 a report summarizing the game experience to another user, such as a parent of the first user or a monitor. In some embodiments, the report summarizes the entire game experience and allows the other user(s) to quickly learn what happened during the game experience without having to watch the entire game experience. For example, the report may include game statistics, screen shots, video clips, a narrative of the game activity, other users (e.g., friends) involved in the game, good behaviors of the child playing the game, problems with the child's game activities, and the like.

[0053] FIG. 4 is a flow diagram illustrating an embodiment of a process 400 for monitoring an online experience with a voice overlay. Initially, a monitoring device initiates and monitors 402 a game experience with a first user. The monitoring device receives 404 audio data associated with the game from a game server. Further, the monitoring device receives 406 a voice overlay and/or streaming overlay data from a second user.

[0054] Process 400 continues as the monitoring device plays 408 the audio data associated with the game through a first speaker in a headset used by the first user. The monitoring device then plays 410 the voice overlay data through a second speaker in the headset used by the first user. In particular implementations, the voice overlay data is provided in real time to the first user during the online gaming experience. In some embodiments, the audio data is heard by the first user in their left ear and the voice overlay data is heard by the first user in their right ear, or vice versa.

[0055] The monitoring device then streams 412 the audio data associated with the game and the voice overlay data to a parent of the first user or other users (e.g., coach, monitor, and the like). Further, the monitoring device streams 414 video data associated with the game to a parent of the first user or other users. The streaming 412 and 414 allows a parent or other user to observe the game session in real time. In some embodiments, the monitoring device invites 416 other users (e.g., parents) to receive the voice overlay and/or streaming overlay. In

particular embodiments, voice commands may be used to create profiles, schedule a gaming session, control a gaming experience, and the like.

[0056] In some embodiments, a user (e.g., the first user or the second user) may send a link to friends or other users to join in creating information in the voice overlay. Additionally, some implementations may allow users to establish voice connections or chat connections between multiple users. For example, all players of a particular game may talk or chat with one another while playing a game. Further, a parent or monitor may talk or chat with a child while the child is active in the online gaming experience.

[0057] FIG. 5 illustrates an example embodiment of an environment 500 for monitoring and guiding online gaming for a user. In some embodiments, at least a portion of the components shown in FIG. 5 are referred to as a “GuardianGamer System.” The following list identifies terms used in FIG. 5 and discussed herein.

[0058] GGSystem—a software as a service environment for monitoring and guiding online videogaming for minors (e.g., <17 year old children)

[0059] GG—Guardiangamer, Inc. the company that operates the GGSystem

[0060] Guardiangamer—the online babysitter/mentor playing games on request of a parent

[0061] GamerChild—a gaming child

[0062] FriendChild—a friend of a gaming child

[0063] Parent—legal guardian or parent of the child on the GG System

[0064] PTA Request—play together apart request by the Parent for finding a Guardiangamer

[0065] Monitored Gamingssession—a booked timeslot for Guardiangamer and a GamerChild to play an online videogame on GGSystem with the purpose to guide a child online and report events to parents

[0066] Communication Channel—overlay of voice over the gaming during a Monitored Gamingssession

[0067] Gaming Sessionnotes—the report and data collected during a Monitored Gamingssession

[0068] Gamer Profile—an assessment of gaming behavior (represented by a vector of factors)

[0069] GG Game Server—a gaming server for GGSysystem users: Guardianguamer, GamerChild or Parents.

[0070] In some embodiments, the GuardianGamer System is a capability for the Parents to match their child with an online guide (also referred to as a mentor, coach, monitor, supervisor, and the like). The guide is a human and is called a “Guardianguamer” and will guide while they play video games together apart. Adding a Guardianguamer through the GuardianGamer System (GGS) to the user experience of playing video games can improve the above-described problematic situation for young children online. Its guidance is described herein.

[0071] The Guardianguamer is online with their child and helps the parents monitor their child playing video games within a safe gaming environment during a given time. Environment 500 includes gaming servers hosted by GG or a third-party. In some embodiments, the Guardianguamer is an online human sitter taking care of a GamerChild and is being there at the online video playground: a chaperone. The guiding gamers are called Guardianguamer (Guardianguamer) and can access a variety of game servers (the online video playground). They guide the Monitored Gamesessions with a GamerChild signed up by their parents and for sessions booked and paid for in the GG Marketplace. The GG System generates, using a matching process driven by criteria defined by the parent, a list of Guardianguamers who the parent can choose to book. In some embodiments, the matching takes place on the GG Marketplace where the users are: GuardianGamers, Parents & ChildGamer.

[0072] As shown in FIG. 5 , there are GuardianGamer supported servers that may be hosted by GG or a third party. On these supported servers, online friend connections between users of the GG System may be established with parent consent.

[0073] The parent and the GuardianGamer may communicate with the GGSysystem via a web client or an app on a mobile device. Therefore, the invention also includes an overlay communication channel or app between the GamerChild and the GuardianGamer, with methods for Parent Control and Consent, in parallel with an online GamingSession. The communication channel may include one or more of voice, chat, video, and screenshare, which can be displayed while a GamingSession is operating. Policies related to the communication channel may be set by a parent.

[0074] In some embodiments, there are two operational modes for the GGSystem. First is “Now” (there is an instant need to connect a child with a Guardianguamer) and the second one is “Scheduled” (there is a need in the near future to connect a child with a Guardianguamer). In particular implementations, the GGSystem provides monitoring support for only the scheduled times of the Guardianguamers (in either Now or Scheduled mode).

[0075] The GGSystem provides communication support to its users as a communication overlay of any popular video gaming platform and will source these experienced gamers accordingly in both operational modes. Via a GG Marketplace, it facilitates the “Scheduled” version and offers the possibility for the Guardianguamer and the parent to turn on the “Now” mode. The GGSystem may support game servers for many popular games. Children gamers (GamerChild) are permitted to play if signed up by their parents (Parent) via the GG Marketplace. In some embodiments, the Parents are the buyers of the service provided by GuardianGamer (GG). The Guardianguamers are online workers at home, maintaining their own home workplace, their own game accounts for the gaming platforms they want to support and make themselves available via a schedule they provide to the GG Marketplace in the “Scheduled” mode. They will be able to advertise their Guardianguamer role on any gaming streaming platform in the market to get more scheduled Monitored Gaming sessions or on the Private Live Streaming Channel of GG System. In the “Now” operational mode, Parents will have access to a pool of Guardianguamers available instantly based on the stored GamerChild gameprofile.

[0076] In some embodiments, the GG System can distinguish four basic game profiles to start from: Merchant, Hunter, Pioneer, and Tacticianer. The system will start with choosing one of these four profiles for a GamerChild as the more dominant one either because at signup this has been chosen by the Parent and GamerChild or as a result of filling out a questionnaire or playing a profiling game. The GGSystem may start a gameprofile for the GamerChild (called gczero). So, a neutral GamerChild gameprofile is 25% Merchant, 25% Hunter, 25% Pioneer, 25% Tacticianer. Parent consent is needed to use the information learned or gathered on the GGSystem to adapt this neutral GamerChild gameprofile.

[0077] The Parent can make known to the GGSystem that they only want to get pre-matched with Guardianguamers who are already matched within the GGSystem in “Scheduled” mode or with any available Guardianguamer in “Now” mode suggested based the GamerChild gameprofile by the GGSystem. This is set by a GG usage policy chosen by the Parent. The Guardianguamers ready to accept bookings in Now mode will be offering the monitoring right

after Guardianguamers accept a “Play Together Apart” request. The request will be sent via a mobile application and will be showing Guardianguamer profiles and reviews from the GG Marketplace, where they are also available for scheduled bookings anytime in the future. The play Now request is called a “Play Together Apart” (PTA) and it will be send to the pool of Guardianguamers available in the “Now” mode for the GamerChild, on the GG Marketplace. In some embodiments, a Guardianguamer turns on the Now mode of operation and within minutes after turning on the Now mode the Guardianguamer will be viewable in the GG app.

[0078] The Guardianguamer will use the mobile device going forward and the Guardianguamer who accepts the PTA the first will be sent a communication link by email like with an accepted booking and a link will show up in the GG app. Once the link has been clicked on by the Guardianguamer he or she is online with the GamerChild of the Parent who requested the PTA. The Parent will be charged for the service and the Guardianguamer will leave notes in the Now app after the completed booking time. After completing the booking, the GuardianGamer will get paid for the price they have advertised on the GG Marketplace. In Now mode, this will result in a booking at the current time of the PTA Request. It assumes the Guardianguamer has a free schedule in his calendar for the time of the booking. When Now mode is activated this has been guaranteed, and the GGSystem is able to add bookings to the schedule of the Guardianguamer on acceptance. The GGSystem provides the monitoring support like in scheduled mode. This might require the Guardianguamer to have access to a gaming console or other gaming client connected with the online video gaming platforms.

[0079] Parents will review the Guardianguamer after the booking by giving them p-stars. These star reviews can also be used in the GG Marketplace as a selection criteria. The star reviews tell the GG System how well the Guardianguamer completed the assessment. A GamerChild can, during the Monitored GamingSession, give the GuardianGamer gc-stars, which tell the GGSystem the child liked the gameplay. These gc-stars add up to the gamerprofile of the GamerChild using various formulas.

[0080] In some implementations, the onboarding process of the Guardianguamers on the GGSystem, or the qualification process for a Guardianguamer, includes: Gaming profile assessment of the Guardianguamer (ggnzero), ID verification, background checks, online presence checks, online training, and the like. GG Certifiers will assess whether a Guardianguamer is allowed to use the GG Marketplace. These steps are performed to assure the parent that the GGSystem knows the providers and the parents can trust the GGSystem and trust the Guardianguamers with their children.

[0081] FIG. 6 illustrates an example embodiment 600 of settings and information associated with a monitoring session. When a GamerChild is new to the GGSystem, the system may use various parent driven-criteria and everything the GGSystem knows about the child (e.g., what the parent provides about the child). In some embodiments, the system may learn more about the child via the online interactions and conversations with Guardianguamers, as well as information released during the matching process. The matching algorithm can learn over time and can predict matches better if more information sources are used (with parent consent). The information in the GamerChild userprofile may be used in the matching process, but is private to the GG system and accessible by the parent for review through a GG Parent Dashboard.

[0082] In some embodiments, parents can turn on or turn off every bit of information gathered by the Guardianguamers to determine whether that information will be added to the gameprofile. After using the GGSystem, the monitored video gaming sessions will generate new information via Gaming Sessionnotes written by the Guardianguamers for the Parent: video guide-play screen dumps, chat logs, and voice recordings (e.g., Gaming session data). Information about the child can be stored in the system or can be deleted from the system by the parent. If the parent gives their consent to use the information, the GGSystem will assess the information again and, based on this assessment, the GamerChild game profile may be changed. The parent can control the information in the userprofile and will choose what is available for (e.g., what information can be public and what should stay private to the system). Public information can be used to train other Guardianguamers on the GG System and/or teach other Parents and GamerChilds on the GG System about good or bad gaming behaviors. The private assessments are presented on the Parent Dashboard. The system uses the information of the GamerChild if it has consent of the user profile owner. In GGSystem this is typically the parent.

[0083] During a GG Monitored video gaming session, a Guardianguamer makes notes which can be stored in the GGSystem and can be accessible for any Guardianguamer scheduled by the parent if the parent wants them to see them during a Monitored Gamingssession.

[0084] The GGSystem provides a Communication Channel via a GG communication system. This may be based on webRTC (web real-time communications) technology. The communication system provides a voice, chat and video communication environment, and maintains the channels for the GG Users. During a Monitored Gamingssession there is an exclusive GG Communication Channel available on the GG communication system for the

GuardianGamer and GamerChild to interact in a conversation via voice and chat with or without video. A Parent can also participate in the conversation. The GuardianGamer may be asked by the GamerChild to add a FriendChild to this GG Communication Channel. In some embodiments, the GuardianGamer may add the FriendChild if the FriendChild is a registered user who was registered by the Parent of that FriendChild on the GGSysyem. Once the FriendChild has a GG username and is existing on the GGSysyem, the GuardianGamer is able to add the Friendchild to the same Communication channel as a GamerChild. The FriendChild will be sent a valid invite to the conversation by the GuardianGamer for the duration of the Monitored Gamingssession.

[0085] The parents of the GamerChild may be informed and asked for their consent for the FriendChild to participate in the conversation online via the same Communication Channel. So, they also know who their child is communicating with. The Parent will be able to approve this automatically via a defined friend policy. The Parent may be able to block an added FriendChild. The described systems and methods provide a positive approach towards being transparent about whom the children have social interactions with on the Friendslist, which may be maintained in the GGSysyem. Instead of forbidding them to communicate with friends, the systems and methods register the conversations and optionally records them based on friend policies involved. The GuardianGamer operates as a secondary approver of the FriendChild's access to the friendslist of the GamerChild.

[0086] Together with the GamerChild, the GuardianGamer assesses the friendship and decides to send the invite or not. If the FriendChild is not on the GGSysyem the children will not be able to communicate by default right away within the Monitored Gamingssession. This situation may be mentioned on the Gaming Sessionnotes by the GuardianGamer. This will result in a note mentioning a missed friend. However, the GuardianGamer may send an invite for signing up the FriendChild via the parent contact info provided by the new Friendchild on the GGSysyem, which then during the Monitored Gamingssession will show that there is an invite for their child. Once the parent contact signs up, the inviter will be on the Friendlist. If they do not sign up during the session, they still have time to do so, and next time the GamerChild and the FriendChild will be able to join on one of the GG Supported Servers. The new Parents can also book their own GuardianGamer for their GamerChild in which they then can invite the friend again also to join the conversation. This inviting each other makes it possible to share a Monitored Gamingssession, however the associated GuardianGamer will only report Gaming Sessionsnotes back to the booker.

[0087] GuardianGamer will inform the Parent that the FriendChild wants to participate in the online conversation with one of the GamerChildren. When they are new to the system, they will get information on how their child can join GuardianGamer and how they themselves can book or manage Monitored GuardianGamer sessions. It will keep track of the social interactions a signed up GamerChild has. The parent will have access to social interaction information via a Parent GameDashboard feature. This dashboard organizes, visualizes, and informs the Parent about the activity on the GG Supported Servers and GG Communication System.

[0088] The GGSysyem also allows the parents to listen in on the Monitored Gaming sessions. In some embodiments, the group of children allowed in the conversation is small (e.g., a maximum of five) and only for the time the Monitored Gamingssession is active and only for GGusers.

[0089] The Monitored Gamingssession has a defined gaming goal associated consisting of a combination of the factors used in the gameprofiles, for example (% Hunter, % Merchant, % Pioneer, % Tactitioner) were used in an earlier example. The gaming goals are pre-defined in the GGSysyem or generated by the GGSysyem. So, Gaming goals have a GoalProfile similar to the GamingProfile of the Guardianguamer and the GamerChild. They have a weight for every factor. Examples include: just mindless gaming (0,0,1,0), building something (0.5,0.5,0,0), winning something (1,0,0,0), making a friend online (0,1,0,0), finding a safe gaming server (0.5,0,0.5,0), finding an existing friend (0,0.5,0.5,0), gaming together without spending money (0.25,0,0.75,0), developing a life skill (0.25,25,0.50,0), shooting others (0,0,0,1), being kind to other players (0,0.75,0.25,0), and the like. These PrimaryGoals are chosen by the Parent to strive for and will add to the GamingProfile of the GamerChild profile given the above weights. Guardianguamer will enhance the already existing interests of a child with appropriate gameplay for a given goal using a formula GCProfileGoal, similar as GCProfiler, but then replace the GG profile with a goalprofile, and eventually this will result in a new GamerChild game profile after completion of the GG Monitored session. The GuardianGamer can give the GamerChild gg-stars. These may be used in the GCProfileGoal function to change the Game profile of the GamerChild.

[0090] Another situation would be an entrepreneur goal. For example, some children are very social and will make a lot of friends online because they create and win for themselves money by selling in-game assets to online friends and their friends the in-game assets. If the Gaming Sessionnotes show that all the e-goals are met, the GoalProfile will be a composition

of a weights averaged over all primary goals met. When goals like that are met, an extra factor (initial value is dependent on the parent review and child review, all the points will go to the new factor) may be added to their Gamer Profile. Thus, children could become entrepreneurs later in real life where they attract a lot of buyers for a product if, in the online world, this behavior has been practiced. So, they may also score high on the GGSysystem for becoming an “entrepreneur”.

[0091] The GuardianGamer System may enlarge these examples and will show parents that there is a lot of positive brain development in that area has been gained with video gameplay. Another example of a GoalProfile that is a composition of overall primary gameplay that the GamerChild chooses to play on a supported GG Game Server where all users talk about for example “Climate Change” and on the GG Game Server users build this world. All actions in the Monitored Gaming Session contribute to a score on a being “climate change aware” or “earth-safer”, and can lead to adding that factor to the Gamer Profile. After composition of GoalProfiles are met in that Monitored Gaming Session and on that Game Server, the corresponding factors (“entrepreneur”=e and or “climate change aware human being”=c) will be added to the GamerProfile (h,m,p,t,e,c), where the total of factors is equal to 1. Some users do not have a score for composition goals, so e and c in the above example are 0 for everyone else who have not scored on these factors.

[0092] These examples may be highlighted on a live GG Streaming Channel with consent of the involved parent to show to other parents. Also, these examples can be watched by other GuardianGamer users (e.g., targeted to parents) on the private GG Streaming Channels. And these examples may be highlighted by the GG System to model good behavior.

[0093] The GG System described herein shows how a GuardianGamer may become the bridge between the Parents and Children, and eventually their Monitored interactions online between the three of them may lead to a better understanding of what is going on in the child's online life. The parents can become a participant instead of a spectator and gain insight in all the Gaming goals met online.

[0094] The GG Sessionnotes can be input for a video sharing/streaming channel. The parents and the Guardianguamer give their consent the GG System to show these notes in a gaming positive way on the video sharing/streaming channel of GG. The GG system will publish them on a streaming channel in real time via the GG system, so parents can tune in to all Guardianguamer sessions published on the private streaming channel. The Guardianguamer makes available to the GGSysystem's channel the gaming session video from its local workplace

during the monitored time. The Guardianguamer is allowed to use the stream publicly if the Parent has given their permission on the ParentDashboard.

[0095] The Guardianguamer is a human, verified and certified by the GuardianGamer system and allowed to game with a GamerChild. The Parent may consent to publish on the video sharing/streaming platforms or not. For the Guardianguamer, it is an honor to be selected by the Parent. He or she will comply with the chosen policies of the Parent and GamerChild. Values and behaviors of the Guardianguamer may be assessed by the Guardianguamer certifiers regularly. The Guardianguamer will be able to advertise for GGSysyem using the Monitored gaming session streams on public gaming channels the GGSysyem allows (real time or recorded) and only the streams permitted by the Parent.

[0096] The GGSysyem may keep track of reviews of the Guardianguamers by the Parents and there may be other ways for the Guardianguamer to gain a better overall assessment in the GGSysyem. The better the assessment, the higher the GGSysyem may rank the Guardianguamer in the matching algorithm regardless of hourly rate.

[0097] In some embodiments, GG verifies the identity of the Guardianguamer, completes a background check and an onboarding interview, along with an organized training. The Guardianguamer may be a trained positive gaming coach for the GamerChild and can assist the child online with navigating the online gaming platforms the GGSysyem allows.

[0098] Parents first sign up for the GuardianGamer System and create a profile account for their GamerChild with Parent consent. This may include an email address where the GamerChild will be reached. Also, GC Gamerprofile (gczero) can be created by answering questions, playing a game or just selecting a given gamer profile. As discussed herein, there may be four basic profiles to begin with. This gamerprofile is stored and used by the GGSysyem for setting up communication channels with Guardianguamers and generating lists of Guardianguamers to select from. The GG System will use search criteria given by the Parent to suggest matching Guardianguamer based on their gamerprofiles.

[0099] The GuardianGamer will stay with the child in the online worlds during a specific time scheduled (e.g., a session). During the scheduled time, the GuardianGamer will monitor the child. In some embodiments, the GGSysyem provides Game Servers for all available games. For the child, the gaming experience should be as fun as before with only the difference of having an extra player in their party for a few moments in the day. The Guardianguamer may become one of the child's online friends for that monitored time of the

gaming session. His or her experience will be mostly playing a video game they want to, and the Guardianguamer will get tagged along.

[00100] The Guardianguamer and the GamerChild will communicate via a monitored communication/voice/video channel specifically set up for them by the GuardianGamer System. The Parent may access the same communication channels and can listen in and/or playback the Monitored gaming sessions. Also, the gaming sessions can be streamed to the streaming channels. So, the platform enables the parents to tune into the video gaming session between the Guardianguamer and their ChildGamer during the monitored session and after the session has finished. During a Monitored gaming session, the Guardianguamer can make notes and will report back in a standardized form. This note reporting tool is one way to know more about the online behaviors of their children.

[00101] Parents do not have the knowledge to use all the video gaming platforms and do not need to create accounts on the variety of gaming platforms in the market to see their child play. The GGSystem does this via a Guardianguamer, so they are able to see what is going on. So, they do not need to manage a gaming account for themselves.

[00102] Each booking results in a monitored gaming session, where the guardianguamer is assessing where the child plays games and what is happening in the booked timeslot. The stage during the session is set for modeling positive behaviors on one of the GuardianGamer Game Servers. The child will be coached on how to spend game money, how to find a friend, what/how to build, what to do with negative behavior or interactions, who to talk to, and the like. Each person a child wants to talk to needs to register as a guardianguamer user. And, the parents give their consent to communicate with their child. The GGServer will not allow non-GG users to access the GG Game Servers.

[00103] The guardianguamer user is signed up by a person 18 years or older and is either the legal guardian, parent of a gaming child, or a guardianguamer who has gone through a selection and training process and eventually onboarded. In some embodiments, the onboarding process may include:

[00104] Preselection using 10 or more questions

[00105] A 30 min interview with a GGcertifier (or as long as it takes)

[00106] Training video and test

[00107] Three or more hours of training gaming sessions, of which one hour may be watching other sessions on the platform live. Feedback from guardian gamers, parents, and children may result in onboarding or not.

[00108] Preparing a listing for accepting bookings

[00109] The user registration and booking of gaming sessions may be performed on the GG marketplace (GGMP). A booking confirmation and delivered GG gaming session notes will give the guardian a compensation for their guidance effort via an hourly set rate in their listings. The guardian gamer will have created a listing on the marketplace. The hourly rate is a fair rate and it reflects the guidance time and effort a parent can expect.

[00110] In some embodiments, the described systems and methods may count the monitored minutes per game on the GG Game servers and measure general gaming statistics. The games in the system supported by guardian gamers will grow over time, but starts with the top games played by children. Within the GG Game Servers, the systems and methods may give safety certificates to the games.

[00111] In some embodiments, the systems and methods described herein may provide safety features to protect the users (especially children) of the GG System. For example, the systems and methods may do one or more of the following.

[00112] Count and evaluate review points by parents on Monitored Sessions.

[00113] Count the number of positive words in conversations in Monitored Sessions.

[00114] Delete bad words (profanity, aggressive words, judgmental words, sexually explicit words, and other age-inappropriate words).

[00115] Controlling streaming sessions through protected servers.

[00116] Positive reviews for specific streaming channels.

[00117] Adding children to the system with parent involvement.

[00118] Tracking missed FriendChilds.

[00119] Tracking usage per GamerChild.

[00120] The described systems and methods may analyze one or more of the above factors to determine the safety of a particular game, particular players, and the like.

[00121] In some embodiments, the systems and methods described herein may determine appropriate ages for particular game streaming channels. For example, the

GGSystem can show live gaming sessions streamed with the enthusiasm of an audience (e.g., parents and children and other guardian gamers) voting for the guardian gamer, so eventually it ranks higher. In some implementations, only GG users can vote and give badges (e-rewards) for accomplishment in gaming and in mentoring the youth they see. The streaming content can be rated by the GG Users, which can be a measure for non-GG Parents to allow their children to watch it.

[00122] In some embodiments, GG implements personal gaming intelligence using artificial intelligence, which can be offered to the Game Platforms as a way to take care of its users. For example, GG may analyze gameplay conversations and store the general and personal gaming context with consent of the parent to create awareness of what impact the gaming has on the developing child. GG can model various aspects of the unstructured gaming conversations between the Guardian gamer and the GamerChild, and by doing so the systems and methods can develop an adaptive GG AI component. This may start with recognizing positive and negative words and possibly deleting out bad words within Monitored Gaming Sessions, recognizing intent by combining written Gaming Session notes (with game-goal) and recordings (voice and/or video). Once the model is trained with significant data, GG can maintain: a GG Gaming Intelligence model and training data (GG will provide unbiased data from its GGSystem). This approach may reduce biases within games by analyzing the game-specific data (the intervened sessions) and implementing a feedback loop (e.g., the GGProfiler based on 5-star review).

[00123] The generic maintained Gaming Intelligence model of the overall activity on the GGSystem will lead to suggestions for adaptations for GamerChild online experiences, and in cooperation with the Parents these suggestions may lead to actionable steps to take to improve the online experiences of the GamerChild.

[00124] The GG AI as an add on to the GGSystem (with the purpose of monitoring for child safety) is possible because the GGSystem overall is heavily invested in the guidance of children by humans. The described systems and methods can document the kind of contextual sensitive data people are looking for in modeling gaming behaviors and translate it into a neural network of good behavior of the developing child brain. Classical rule-based AI techniques and supervised deep learning (neural network) together may indicate whether or not a parent needs to intervene or become part of the conversation online. Thus, the GGSystem may suggest actionable positive guidelines for parents and their children.

[00125] The conversation data during game play and the session notes (e.g., goal, goal profile, definition and description of successfully reaching the goal) together form the context of a conversation about what is happening online at a specific moment, and can sometimes guide the offline conversation between a parent and their gamerchild later. The video, voice, and logged text chat between the GuardianGamer and the GamerChild will feed into a GG defined (e.g., rule based) or trained personal AI model. If the parent has been involved as a participant of the online conversations, the AI model will also be able to reflect this. So, the AI model may know that a parent is involved and gives consent to use the information for the AI modeling.

[00126] In some embodiments, the GuardianGamer System can make predictions over time to define the GamerChild's game personality development within a particular video game, or in the overall GGSysytem in general. This information may give Parents guidelines and insights regarding how this might relate to the offline personality and behaviors of a child. An intervening measure could be reducing the amount of time kids spend playing online games in general (including outside monitored hours). The information may also help a parent or child visualize the amount of money they will spend, earn, or save within a particular game based on a certain Gamer Profile. For example, the AI model could make predictions on future paths towards successful professional developments.

[00127] Once the AI model is developed specifically for a unique child, the AI model can be used in the non-monitored gaming moments (e.g., without a GuardianGamer as a human) as an AI-agent or a bot within a third party gaming environment connecting to the GGSysytem backend for keeping up with the GGProfiler. GG could develop a continuous service for monitoring playtime, which may help the Game developer to trace new behaviors to be modeled for a particular GamerChild. A game could demand a GamerChild to use the GGSysytem consistently for a certain time with a human GuardianGamer to establish her or his AI model to be used and adapted going forward. The game developer, once the more advanced gamerprofile (like the one who identifies an entrepreneur or an architect) is known, can then use this AI model to motivate a GamerChild to play responsibly and adapt to it in the flow of a game.

[00128] In video games on non-GuardianGamer servers, the described systems and methods can make these agents available and/or they can program bot accounts that shadow plays with their child online, such as continuously playing video games and helping the child to stay safe online. The systems and methods may also offer this AI capability to the gaming

platforms in a non-biased way (e.g., in a maintained positive behavior model which will alert odd things are happening and, over time, self-calibrate towards new actual behavior where guardiangamers can be trained to prevent in the future, also called the GG feedback loop). This approach may be considered a more advanced way of monitoring on top of existing in-game monitoring techniques and it may allow the GG system to build in-game components. Instead of hosting gaming servers as safe playgrounds with a safe group of friends (e.g., known by the parents) it can self-calibrate and, together with a feedback loop into the GG System, games can become GG Supported and safer. In some embodiments, the AI model is trained in a positively controlled gaming environment and may need modifications once there are no human Guardianguamers involved. Alternatively, the role of Guardianguamers may become the role of generic moderators in the games supported with positive gaming AI agents.

[00129] FIG. 7 illustrates an example process for discovering guardian listings. As discussed herein, parents or other users may search for a Guardianguamer to monitor and engage with their child or other person.

[00130] FIG. 8 illustrates an example process for creating a guardian profile. As shown in FIG. 8, a user may create a user account, initiate creation of a guardian listing, identify their availability for gaming sessions, provide banking information, and publish their listing. After completing this process, parents and other users can find the Guardianguamer and hire them for a particular gaming session.

[00131] FIG. 9 illustrates an example process for creating a parent or family profile. The example of FIG. 9 shows a process that includes creating a user account, creating a child profile, identifying times when a Guardianguamer is needed for a session with the child, providing banking information, and creating a listing for finding a Guardianguamer.

[00132] FIG. 10 illustrates an example process for scheduling a guardian for a gaming session. This example process includes a parent generating a request to book a Guardianguamer and providing payment information. The Guardianguamer may accept or decline the booking request. If accepted, the gaming session(s) are booked and the gaming sessions take place. After each gaming session, the Guardianguamer will provide notes related to the gaming session.

[00133] FIG. 11 illustrates an example architecture within which an example embodiment may be implemented. As shown in FIG. 11, the example architecture includes a frontend, AWS S3 file storage, a Sharetribe Flex API, a backend APT, and an Agora API.

Various data, activities, and other information are shown in the different components of the example architecture.

[00134] FIG. 12 illustrates an example transactional process diagram. In some embodiments, FIG. 12 represents a transactional process associated with scheduling a mentor and delivering notes and screenshots from the mentor to a parent or other user. FIG. 12 also illustrates handling of payments, booking sessions with predefined goals selected by a parent or other user, and the like.

[00135] FIG. 13 illustrates an example block diagram of a computing device 1300 suitable for implementing the systems and methods described herein. In some embodiments, a cluster of computing devices interconnected by a network may be used to implement any one or more components of the systems discussed herein.

[00136] Computing device 1300 may be used to perform various procedures, such as those discussed herein. Computing device 1300 can function as a server, a client, or any other computing entity. Computing device can perform various functions as discussed herein, and can execute one or more application programs, such as the application programs described herein. Computing device 1300 can be any of a wide variety of computing devices, such as a desktop computer, a notebook computer, a server computer, a handheld computer, tablet computer and the like.

[00137] Computing device 1300 includes one or more processor(s) 1302, one or more memory device(s) 1304, one or more interface(s) 1306, one or more mass storage device(s) 1308, one or more Input/Output (I/O) device(s) 1310, and a display device 1330 all of which are coupled to a bus 1312. Processor(s) 1302 include one or more processors or controllers that execute instructions stored in memory device(s) 1304 and/or mass storage device(s) 1308. Processor(s) 1302 may also include various types of computer-readable media, such as cache memory.

[00138] Memory device(s) 1304 include various computer-readable media, such as volatile memory (e.g., random access memory (RAM) 1314) and/or nonvolatile memory (e.g., read-only memory (ROM) 1316). Memory device(s) 1304 may also include rewritable ROM, such as Flash memory.

[00139] Mass storage device(s) 1308 include various computer-readable media, such as magnetic tapes, magnetic disks, optical disks, solid-state memory (e.g., Flash memory), and so forth. As shown in FIG. 13, a particular mass storage device is a hard disk drive 1324. Various

drives may also be included in mass storage device(s) 1308 to enable reading from and/or writing to the various computer-readable media. Mass storage device(s) 1308 include removable media 1326 and/or non-removable media.

[00140] I/O device(s) 1310 include various devices that allow data and/or other information to be input to or retrieved from computing device 1300. Example I/O device(s) 1310 include cursor control devices, keyboards, keypads, microphones, monitors or other display devices, speakers, printers, network interface cards, modems, lenses, CCDs or other image capture devices, remote game controllers, virtual reality (VR) headsets, VR glasses, any I/O device that inputs commands to control a game, and the like.

[00141] Display device 1330 includes any type of device capable of displaying information to one or more users of computing device 1300. Examples of display device 1330 include a monitor, display terminal, video projection device, and the like.

[00142] Interface(s) 1306 include various interfaces that allow computing device 1300 to interact with other systems, devices, or computing environments. Example interface(s) 1306 include any number of different network interfaces 1320, such as interfaces to local area networks (LANs), wide area networks (WANs), wireless networks, and the Internet. Other interface(s) include user interface 1318 and peripheral device interface 1322. The interface(s) 1306 may also include one or more user interface elements 1318. The interface(s) 1306 may also include one or more peripheral interfaces such as interfaces for printers, pointing devices (mice, track pad, etc.), keyboards, and the like.

[00143] Bus 1312 allows processor(s) 1302, memory device(s) 1304, interface(s) 1306, mass storage device(s) 1308, and I/O device(s) 1310 to communicate with one another, as well as other devices or components coupled to bus 1312. Bus 1312 represents one or more of several types of bus structures, such as a system bus, PCI bus, IEEE 1394 bus, USB bus, and so forth.

[00144] For purposes of illustration, programs and other executable program components are shown herein as discrete blocks, although it is understood that such programs and components may reside at various times in different storage components of computing device 1300, and are executed by processor(s) 1302. Alternatively, the systems and procedures described herein can be implemented in hardware, or a combination of hardware, software, and/or firmware. For example, one or more application specific integrated circuits (ASICs) can be programmed to carry out one or more of the systems and procedures described herein.

[00145] Referring to FIG. 14, a system 1400 facilitates monitoring of the activities of children with respect to game servers 1402 providing game play are accessed by child devices 1404, such as personal computers, tablet computers, mobile phones, gaming consoles, or other computing devices. Game play by children with respect to the game servers 1402 may be monitored by account holders according to the approach described herein. For example, the main account holders may be parents and guardians of the children. The account holders can create an account based on an email address, phone number, Google ID etc. Optionally, age verification may be implemented, using a credit card number or other mechanism. Once an account holder has successfully created an account, the account holder can create sub accounts for one or more children, which may include identified using gamer tags (for example, dirtysocks91) each associated with an account of a child through which the child accesses a game server 1402. Each gamer tag may be a name that the child chooses (or already uses in games) or wants to use when the child interacts with their friends. During sign up the account holder may provide consent for their children to use the system 1400 and for the chats and game sessions with respect to one or more game servers 1402 to be recorded.

[00146] The system 1400 makes it possible for account holders to manage at what times a child can play games, what video games a child is allowed to play, and which friends are invited into the shared gaming sessions and chat. For example, children can find their friends using gamer tags. However, the connection is not established until a parent confirms the connection on both sides.

[00147] The system 1400 provides parents with a dashboard that gives visibility into metrics such as hours of gameplay, time spent with friends, which games were played etc. (see FIG. 16 and corresponding description, below). The system 1400 also provides summaries of gameplay, such as in the form of game reports and personalized highlight reels. From the dashboard, the account holder can configure the system 1400, including defining which behavioral focus areas are of interest. Account holders can invite other account holders to the system 1400 by sending an invitation to their phone number or email address.

[00148] Children can, during time windows allowed by their parents, set up voice chats and shared gaming sessions on a game server 1402 with friends they are successfully connected to. For each child participating in the shared gaming session, a cloud gaming server instance 1406 may be instantiated, such on a cloud computing platform. The cloud gaming server instances 1406 typically would run on GPU accelerated cloud instances. The guest operating

system would typically be Linux, Android or Windows, though other operating systems are possible.

[00149] The cloud gaming service instances 1406 execute game applications and communicate to the game servers 1402, which enables the multiplayer gaming. The game servers 1402 may be hosted by third parties. The game application may be a client application, such as would execute on the child device 1404 of a child interacting directly with the game server 1402. The cloud computing platform, game servers 1402, and child devices 1404 may have come or all of the attributes of computing device 1300 described above.

[00150] Typically, the games, i.e., video data representing game play, are rendered using the server GPU and then encoded into H.264, H.265, VP9 or AV1 video using the same GPU. A first copy of the video is streamed to the child device 1404 of the child using low latency streaming protocols, such as within a WebRTC framework. Control inputs from the child devices 1404 controlling game play with respect to a child operating the child device 1404, such as controls received through a game controller, are received by the cloud gaming server instance 1406 and forwarded to the game server, which then updates a game state based on the control inputs. A second copy of the video stream is stored in a filesystem 1408, such as the illustrated Multi-Angle Game Play Video Storage. A third copy may optionally be streamed to a Parent Device 1410, in real time or from the filesystem. The parent device 1410 may be implemented as a personal computer, tablet computer, mobile phone, a gaming console, or other computing device.

[00151] Each child device 1404 may also be connected to a chat backend 1412, typically using a WebRTC framework. The chat Backend 1412 enables real-time chat and voice communications between the different child devices 1404 in the shared gaming session. The chat and voice data can be routed through the chat backend 1412. Optionally, chat data can be sent peer-to-peer under control of the chat backend 1412. The chat channels routed through or controlled by the chat backend 1412 may be recorded to a filesystem 1414, such as the illustrated multi-channel chat storage. Each voice chat channel be recorded separately. Optionally multiple chat channels of a shared gaming session may be recorded as a single combined channel.

[00152] During or after the gaming session, the different voice channels are converted from speech to text using speech transcription software 1416, for example OpenAI Whisper or Amazon Transcribe, which may include keeping time range information for the text. If multiple chat channels are combined, the speech transcription software 1416 may perform speaker

diarization to separate the different children speaking. It therefore may be preferred to keep the voice channels separate and transcribe them separately to guarantee correct speaker assignment. After converting the different channels to speech the transcripts can be merged based on time ranges, for example in a format such as this:

[00:01:47.000-->00:01:53.000] Cato: Uh, Adrian, can you go in your own car because I'm not comfortable with two in one.

[00:01:54.000-->00:01:56.000] [00:01:56.000-->00:02:01.000] "Shift", you go faster.

[00153] [00:02:01.000-->00:02:02.000] [00:02:02.000-->00:02:04.000] [00:02:04.000-->00:02:07.000] [00:02:07.000-->00:02:14.000] gotta go a little more middle. [00:02:14.000-->00:02:21.000] that worked.

Adrian: Uh, yeah, sure.

Cato: Because

when you press

Adrian: Yeah.

Adrian: I was

CJ: Yeah, you

Cato: You're kind of stuck, so you

holding it, but oh! should go up there.

CJ: Oh, wait, did that work? Okay,

[00154] After transcription of the chat, such as full or partial transcription, of the shared gaming session is created, it may be combined with an appropriate prompt and sent to an Large Language Model (LLM) 1418 such as GPT-4 or Claude. A simple example of such a prompt may be:

You are an editor creating a video highlight of a gaming session. You will take a transcript of a gaming session chat with timestamps. I would like you to identify the most interesting time ranges of this session. It should be limited to up to ten fragments. Each fragment should be less than 10 seconds and the combined length of all fragments should not be more than 60 seconds. We are interested in parts where the players are having fun or scoring a win, or where

there is a difficult part or they may be facing a loss. Create a list of up to ten time ranges and add a subtitle that is helpful to viewers to understand what is going on and why this fragment is interesting. The format of the output should be start time and end time in seconds (without milliseconds) and subtitle in the format hh:mm:ss hh:mm:ss subtitle.

[00155] In some embodiments, the prompt is personalized to a particular child, based on history and specific behavioral focus areas defined by the account holder using their dashboard.

[00156] Additionally or alternatively, a Multimodal LLM such as GPT-4 can be used and screenshots or full video segments from the game play can be fed to the LLM as inputs in addition to the chat transcripts. The prompt will trigger the LLM 1418 to create a summarization of the game session and suggested time ranges for a highlight reel in combination with subtitles that can be overlaid on the video reel to create a narrative, for example in such a format:

00:00:46 00:00:57 The thrill of the chase, trying to catch a criminal 00:01:19

00:01:24 Escaping from jail, and sneaking around

00:02:35 00:02:48 Breaking out of prison, jumping ramps, and driving off

00:03:18 00:03:21 Plan to rob a place, planning and scheming 00:03:44

00:03:49 Police chasing, excitement and danger

00:04:29 00:04:40 Fun banter, talking about favorite TV shows 00:05:06

00:05:11

A helicopter ride, soaring and feeling free 00:05:22 00:05:25 A playful warning, reminding not to make mistakes while flying

00:05:29 00:05:30 Flying high with a friend, enjoying the ride

[00157] Each game video stream may be stored separately in the file system 1408 providing a multi-angle view of the shared game session. The suggested time ranges may be extracted from the videos and subtitles may be overlaid by high light reel creation stage 420 to create a highlight reel 1422. This process may include transcoding the source video and subtitles and encoding it again at one or more bitrates for playout using a standard video playout system.

[00158] In addition the LLM 1418 may be tasked to create an overall summary report of the game play, for example in a format like this:

The group successfully navigates through a puzzle, connecting colors while avoiding red lasers, while another player encourages them to not touch them. One person manages to complete the puzzle and the group rushes through to evade the lasers. Unfortunately, one player does not make it and dies. The group then decides to head to the criminal base to pick up the remaining players, grabbing some cash along the way. They briefly discuss robbing a tomb and encounter another player who joins them. Someone asks about the 4 k cash they obtained and the group divides tasks, with a couple of players heading to grab guns.

During this fragment of the chat session, the group attempts to coordinate a pick-up for CJ, who is getting guns inside the place. They struggle to locate CJ and become worried when they spot a police officer. After heading towards CJ's location, they eventually pick him up in a Jeep and frantically attempt to escape the police officers chasing them. The group briefly discusses robbing a tomb and someone finds a bullet. They ask CJ how he managed to get by the power plant

[00159] The highlight reels and game play reports can be generated and personalized for each child participating in the shared gaming sessions separately. Each account holder will receive a highlight reel and report targeted at their child.

[00160] Selecting an appropriate cost in hosting cloud gaming services is challenging for several reasons. Lower cost spot instances may be unsuitable since one cannot terminate games in the middle of a session. Therefore higher cost on-demand or reserved instances may be used. It is generally more efficient to run multiple cloud gaming server instances 1406 on a single cloud instance, but that the number of sessions is not constant and tends to ramp up and down during the day. It may be advantageous to have spare resources available to enable to handle a new incoming session with low latency. During session ramp up, not all of the instance resources will be fully utilized. During ramp down the cloud instances cannot be terminated while at least one of the games is still running. This will cause a lower average utilization and therefore higher cost.

[00161] The instance types that are suitable to run cloud gaming instances 1406 may have GPU acceleration for rendering and video compression. Examples of the GPU architectures are Nvidia Turing, Ampere or Ada Lovelace. Here it can be observed that these same GPUs are also very suitable for acceleration of other workloads, including AI inference

such as speech-to-text transcription, image recognition and Large Language Models, as well as the video processing required for highlight reel generation. These workloads can be scheduled in such a way to utilize spare capacity on the cloud gaming server instances 1406 during ramp up and ramp down. This enables a much higher average utilization of cloud resources and reduces the cost of the service. When there is no additional capacity on the on-demand cloud instances, it is possible to utilize lower cost spot instances for such workloads, since these workloads can be partially completed, terminated and rescheduled. It is also possible to allocate lower cost “reserved” instance types that are available full time.

[00162] In the system 1400, a mentor of a child need not be connected to the system 1400 every time the child uses the system 1400 to access a game server 1402. For example, access to the system 1400 may be implemented as a premium feature for those who want to have a personal coach/mentor to level up gaming or to more in depth monitoring, coaching, reporting, and/or assessing of certain gameplay.

[00163] The AI supervision provided by the system 1400 will report back to the account holder in the form of highlight reels 1420, which may be embodied as short clips showing the endeavors of a child associated with the account holder. It is highly enjoyable to receive these highlight reels for everyone participating in the sessions on their dashboard.

[00164] Referring to FIG. 15 , the illustrated dashboard is just an example of how the account holder can monitor and gain more visibility in the online game experiences. The system 1400 will present some or all of the illustrated data in the dashboard for each child associated with the account holder. In the example of FIG. 15 , one can see Lente (the child) and Lente's Friendlist (i.e. as list of the accounts of the account holders associated with the friends of the account holder's child). Also one can see how much time Lente spent while gaming this month. You can see the games she played. And since one of the Game Goals that is selected here is “TEAM BUILDING” the system presents here to the parent the “Time with Friends” metric. Furthermore, this Focus Area will be highlighted in the reels, like Social Interactions and Strategy. The interface also shows how many hours are spent on the system 1400, a very important feature for account holders could be the possibility to switch the gaming on and off. So that this is controlled in this example of the dashboard. The dashboard may further include links to highlight reels generated by the system 400 (“Your Latest Reels”) that an account holder may select to invoke downloading and/or playback of the highlight reels, summaries of time spent gaming by a child, a selection of games that the child has been approved to play by the account holder, or other information.

[00165] FIG. 16 is a process flow diagram of a method 1600 for generating summaries of gaming sessions. The method 1600 may be performed by the system 1400. At step 1602, X hours of voice chat are received from a group of N children, with each child having a separate channel and where X is a floating point or integer number and N is the number of children associated with a gaming session. At step 1604, speech-to-text transcription is performed for each voice channel, resulting in a set of N transcriptions. At step 1606, a personalized prompt is generated for an LLM that specifies goals for the LLM, such as any of the embodiments of the LLM 1418 described herein. The prompt may be any of the prompts described above. The prompt may be generated using information, such as by accessing predefined behavior focus areas 1608 specified by the account holder for one or more of the children or some other entity.

[00166] When an account holder creates an account with the system 1400 for supervising gaming sessions of a child, the account holder may have any of the following objectives:

Want to see the child game.

Want to talk to the child while they play and hear them play

Want to talk after the session with the child about the gaming accomplishments (parents are configuring behavioral focus areas)

Want to learn themselves more about the games their child is playing

Want to make sure the child is for the duration of the session safe online and only talk to people they approve.

[00167] The account holder will therefore use the system 1400 to look for these moments where the child is developing online skills by gameplay relating to any of these objectives or some other objective. A personalized prompt for the LLM may therefore be derived from text describing one or more of these objectives or some other objective provided by the account holder. For example, if the child is a good architect in the eye of the account holder, the account holder may specify creativity or world building skills as a behavioral focus area and the personalized prompt will reference that behavioral focus area. After a child has participated in a gaming session with a certain game, the system 1400 will therefore generate a highlight reel that includes fragments of video, audio, chat, or other media data from a gaming session and possibly a narrative generated by the LLM describing actions of the child relating to the behavioral focus area, e.g., world building and other creative processes within the gaming session. For example, a highlight reel may start with a narrative giving the account holder an

overview of how long it took the child to build the world, it will show the early beginning of building the world, and summarize the process (for example it will accelerate/fast forward the building process by showing the transformation).

[00168] In another example, the behavioral focus specified by the account holder for another child may be cooperation and helping others. The personalized prompt will therefore include text describing this behavior focus. Accordingly, if the child has helped another player who created a world, the highlight reel for the child may show how the child has been contributing and focus in the narrative on how the child was a helpful and supportive team player in the process.

[00169] In yet another example, with reference to FIG. 15, in a session with Lente and her friends, Lente's dashboard indicated that teamplay is a behavioral focus of the account holder such that the account holder would like to see a highlight reel including media data (video, audio, or chat fragments from the gaming session) and automatically generated narrative description relating to teamplay. For the same session, the account holder for a friend of Lente might additionally or alternatively be interested in game strategies. Therefore, if the friend is participating and contributes to the winning strategy in the game session, this will be highlighted in the highlight reel provided in the dashboard of the account holder associated with the friend.

[00170] At step 1610, media data is input to the LLM, the media data including some or all of the transcriptions, and possibly one or more video files, audio files, or chat data of a gaming session from the perspectives of one or more of the children that participated in the gaming session, are input to the LLM to obtain a response summarizing highlights of the gaming session for at least one of the children. The highlights may summarize interesting fragments of the media data and transcriptions relating to the child. The response may further include a narrative generated by the LLM, such as narrative text describing the behavior of a child with respect to a specified behavioral focus for the gaming session as a whole as and/or with respect to each fragment.

[00171] At step 1612, the time ranges for the fragments referenced in the response are tagged and labeled with time ranges. At step 1614, video streams 1616 from the children associated with the gaming session are split according to the time ranges, i.e., fragments of video corresponding to the time ranges of fragments identified for each child in the response from the LLM may be split from a video stream 1616 for that child. For example, the fragments

of video may include some or all of the examples 1618 of fragments of video shown in FIG. 16 corresponding to some or all of the listed examples of behavioral focuses.

[00172] At step 1620, the video fragments may be combined into one or more highlight reels, which may include one or both of compositing and transcoding the fragments of video into one or more video files.

[00173] FIGS. 17-19 are example interfaces to the system 1400 that may be used by an account holder. The interfaces may be webpages generated by the system 1400 and provided as webpages to a computer system of the account holder over a network, such as a computer system having some or all of the attributes of the computer system 1300. Interactions with the webpage by the account holder may then be transmitted to the system 1400.

[00174] FIG. 17 illustrates a signup screen through which an account holder creates an account and specifies one or more behavioral focus areas (“team building,” “family friendly,” “hand eye coordination,” “creative and exploring,” “skill development,” “strategy,” “simulation,” “role playing game”).

[00175] FIG. 18 illustrates an interface for an account holder to invoke viewing of a highlight reel for each gaming session, the highlight reel being generated according to any of the embodiments described above. The interface may provide links for invoking display of the highlight reels for gaming sessions along with other information, such as amount of time spent in each gaming session, a time at which the gaming session occurred, a listing of favorite games, or other information.

[00176] FIG. 19 illustrates an interface that enables an account holder to specify to the system 1400 what games a child is able play, specify behavioral areas, or other information. The system 1400 may therefore implement controls on access by a child associated with the account holder and generate highlight reels according to the specified behavioral areas.

[00177] The systems, methods, and interfaces described herein provide several technical effects and/or improvements to technology. For example, the techniques improve data processing. By using a large language model (LLM) to process the media data/derived data according to defined goals, in some embodiments, the method provides more efficient and accurate identification/extraction of relevant portions compared to manual efforts. Using an LLM provides more advanced natural language processing and understanding capabilities compared to traditional rule-based systems. For example, the LLM can better comprehend the context and semantics of the media data to more accurately identify relevant portions based on

the defined goals. The transformation of identified media data portions into separate media files represents a technical transformation of data from one format to another usable format, according to some embodiments. The transformation from the original media data format into separate media file formats represents a technical conversion of data representations. For example, converting identified video segments from a video stream into separate MP4 files. The system can be implemented in a distributed computing environment. The online gaming experience with multiple users and an account holder suggests a distributed computing system, which can have technical implications. For example, handling an online multi-user gaming experience can include distributed data handling and processing across client devices and servers. Media data generated by user gaming clients can be transmitted to a central server for LLM processing and file transformation. Identifying and extracting only relevant portions from the larger media data based on defined goals is a technical data filtering/selection process (e.g., from hours of recorded video gameplay, only the specific segments relevant to a defined goal are extracted). Transforming the identified portions into separate media files facilitates storage and persistence of that data. The generated media files can be stored for later access by the account holder instead of having to re-process the original media data repeatedly.

[00178] While various embodiments of the present disclosure are described herein, it should be understood that they are presented by way of example only, and not limitation. It will be apparent to persons skilled in the relevant art that various changes in form and detail can be made therein without departing from the spirit and scope of the disclosure. Thus, the breadth and scope of the present disclosure should not be limited by any of the described exemplary embodiments, but should be defined only in accordance with the following claims and their equivalents. The description herein is presented for the purposes of illustration and description. It is not intended to be exhaustive or to limit the disclosure to the precise form disclosed. Many modifications and variations are possible in light of the disclosed teaching. Further, it should be noted that any or all of the alternate implementations discussed herein may be used in any combination desired to form additional hybrid implementations of the disclosure.

[00179] The terminology used in the description of the invention herein is for the purpose of describing particular implementations only and is not intended to be limiting of the invention. As used in the description of the invention and the appended claims, the singular forms “a,” “an,” and “the” are intended to include the plural forms as well, unless the context clearly indicates otherwise. It will also be understood that the term “and/or” as used herein

refers to and encompasses any and all possible combinations of one or more of the associated listed items. It will be further understood that the terms “comprises” and/or “comprising,” when used in this specification, specify the presence of stated features, steps, operations, elements, and/or components, but do not preclude the presence or addition of one or more other features, steps, operations, elements, components, and/or groups thereof.

[00180] The foregoing description, for purpose of explanation, has been described with reference to specific implementations. However, the illustrative discussions above are not intended to be exhaustive or to limit the invention to the precise forms disclosed. Many modifications and variations are possible in view of the above teachings. The implementations were chosen and described in order to best explain the principles of the invention and its practical applications, to thereby enable others skilled in the art to best utilize the invention and various implementations with various modifications as are suited to the particular use contemplated.

[00181] Some embodiments or implementations are described with respect to the following clauses:

Clause A1. A method comprising:

initiating an online gaming experience with one or more users;

receiving media data generated by the online gaming experience;

processing at least one of (a) the media data and (b) data derived from the media data by an artificial intelligence model according to one or more goals defined for a first user of the one or more users by an account holder for the first user to obtain an identification of portions of the media data;

transforming the portions of the media data into one or more media files; and

providing the one or more media files to the account holder.

Clause A2. The method of clause A1, wherein the account holder is at least one of a parent, a mentor, a coach, a monitor, or a supervisor.

Clause A3. The method of any of clauses A1-A2, wherein the account holder is not playing one of the one or more users.

Clause A4. The method of any of clauses A1-A3, wherein the first user is a child.

Clause A5. The method of any of clauses A1-A4, wherein the media data includes at least one of audio, video, and chat data.

Clause A6. The method of clause A5, further comprising:

generating a speech-to-text transcription of the media data; and

processing the transcription by the artificial intelligence model to obtain the identification of the portions of the media data.

Clause A7. The method of any of clauses A1-6, wherein transforming the portions of the media data into one or more media files comprise transcoding the portions of the media data.

Clause A8. The method of any of clauses 1-7, wherein transforming the portions of the media data into one or more media files comprise compositing.

Clause A9. The method of any of clauses A1-A8, wherein the one or more goals define one or more behavioral focus areas for the first user.

Clause A10. The method of clause A9, wherein the one or more behavioral focus areas include at least one of building skill, communication skills, balancing emotions, accomplishments, or learning opportunities.

Clause A11. The method of any of clauses A1-A10, wherein the one or more users include a plurality of users and the media data includes a plurality of streams of media data, each stream of the plurality of streams of media data corresponding to a user of the plurality of users.

Clause A12. The method of any of claims A1-A11, further comprising receiving the media data from a game server and forwarding the media data to one or more devices of the one or more users.

Clause A13. The method of any of clauses A1-A12, wherein the artificial intelligence model is a large language model (LLM).

Clause B1. A system, comprising:

one or more processors;

memory;

wherein the memory stores one or more programs configured for execution by the one or more processors, and the one or more programs comprising instructions for performing the method of any of clauses A1-A13.

Clause C1. A non-transitory computer readable storage medium storing one or more programs configured for execution by a computer system having one or more processors, the one or more programs comprising instructions for performing the method of any of clauses A1-A13.

What is claimed is:

1. A method comprising:
 - initiating an online gaming experience with one or more users;
 - receiving media data generated by the online gaming experience;
 - processing at least one of (a) the media data and (b) data derived from the media data by an artificial intelligence model according to one or more goals defined for a first user of the one or more users by an account holder for the first user to obtain an identification of portions of the media data;
 - transforming the portions of the media data into one or more media files; and
 - providing the one or more media files to the account holder.
2. The method of claim 1, wherein the account holder is at least one of a parent, a mentor, a coach, a monitor, or a supervisor.
3. The method of any of claims 1-2, wherein the account holder is not playing one of the one or more users.
4. The method of any of claims 1-3, wherein the first user is a child.
5. The method of any of claims 1-4, wherein the media data includes at least one of audio, video, and chat data.
6. The method of claim 5, further comprising:
 - generating a speech-to-text transcription of the media data; and
 - processing the transcription by the artificial intelligence model to obtain the identification of the portions of the media data.
7. The method of any of claims 1-6, wherein transforming the portions of the media data into one or more media files comprise transcoding the portions of the media data.
8. The method of any of claims 1-7, wherein transforming the portions of the media data into one or more media files comprise compositing.
9. The method of any of claims 1-8, wherein the one or more goals define one or more behavioral focus areas for the first user.

10. The method of claim 9, wherein the one or more behavioral focus areas include at least one of building skill, communication skills, balancing emotions, accomplishments, or learning opportunities.
11. The method of any of claims 1-10, wherein the one or more users include a plurality of users and the media data includes a plurality of streams of media data, each stream of the plurality of streams of media data corresponding to a user of the plurality of users.
12. The method of any of claims 1-11, further comprising receiving the media data from a game server and forwarding the media data to one or more devices of the one or more users.
13. The method of any of claims 1-12, wherein the artificial intelligence model is a large language model (LLM).
14. A system, comprising:
 - one or more processors;
 - memory;
 - wherein the memory stores one or more programs configured for execution by the one or more processors, and the one or more programs comprising instructions for performing the method of any of claims 1-13.
15. A non-transitory computer readable storage medium storing one or more programs configured for execution by a computer system having one or more processors, the one or more programs comprising instructions for performing the method of any of claims 1-13.

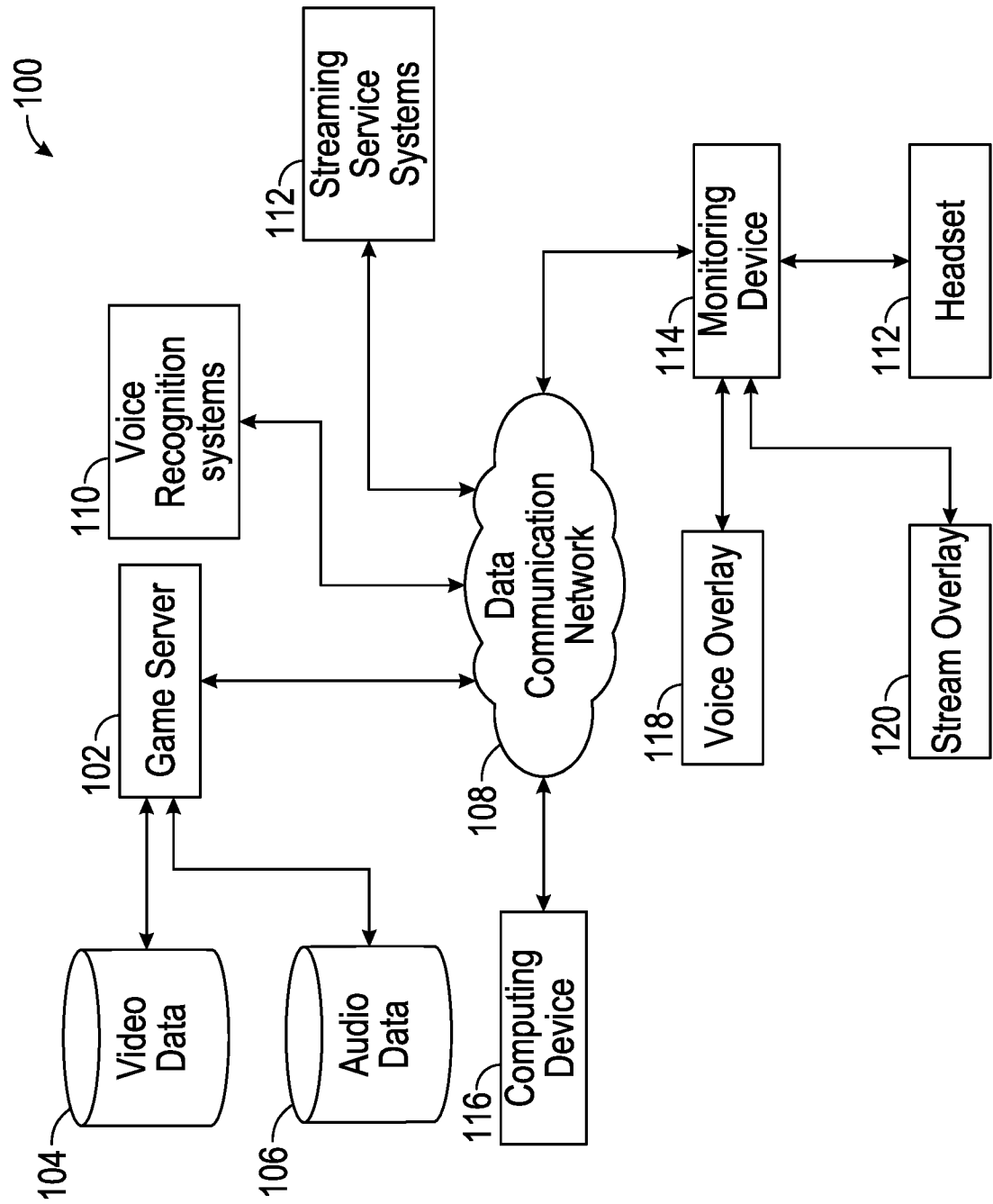


FIG. 1

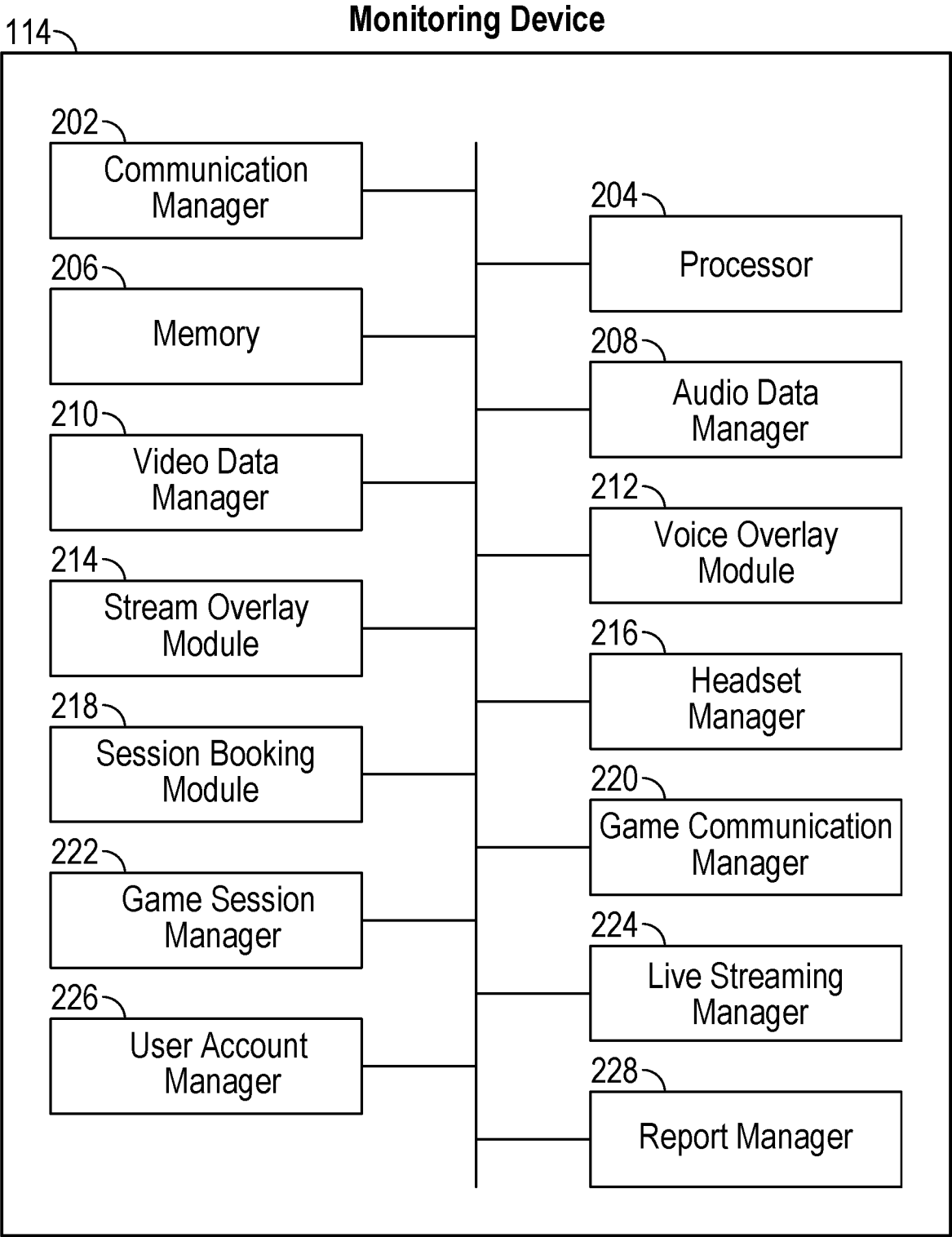
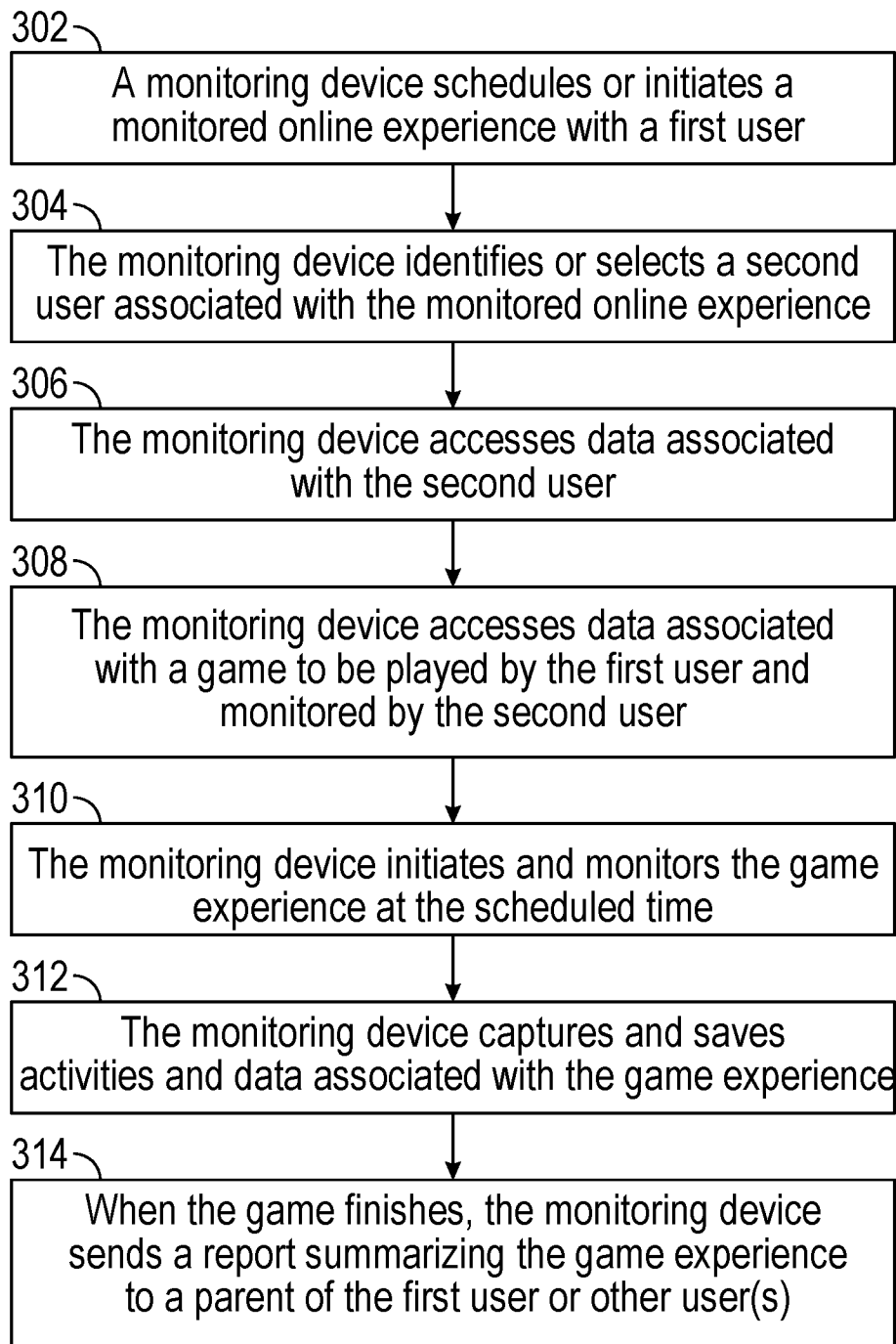
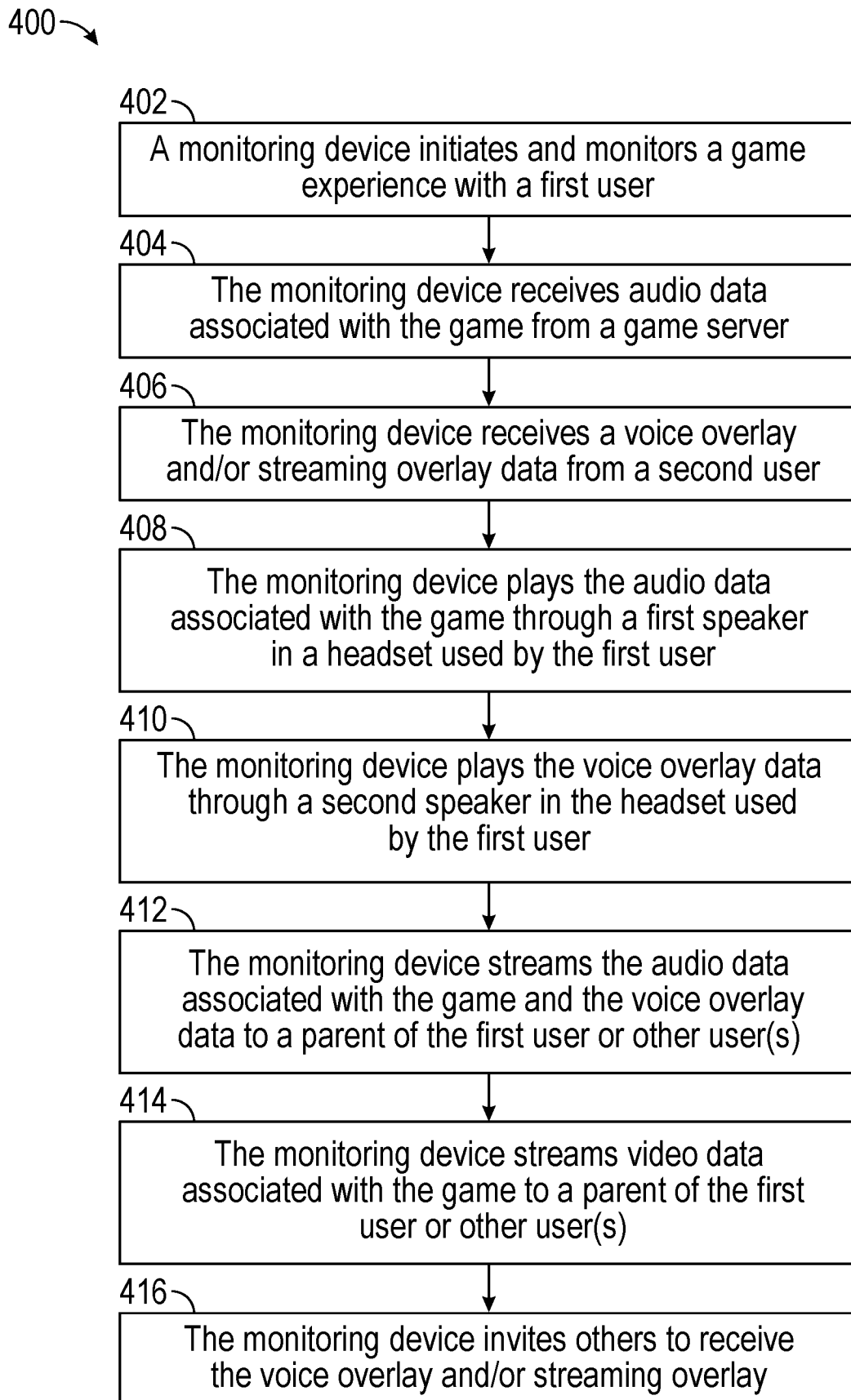


FIG. 2

300 →

**FIG. 3**

**FIG. 4**

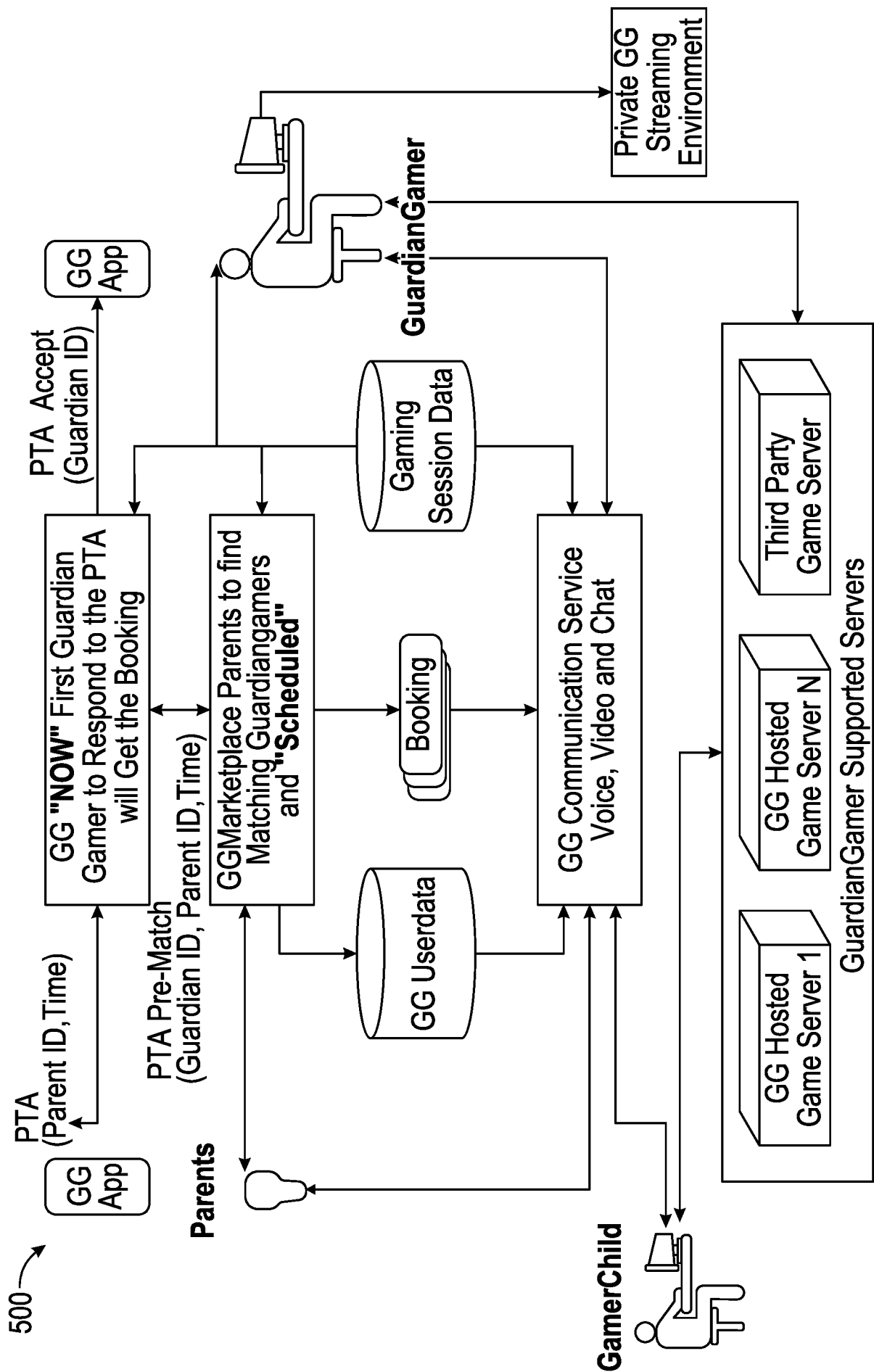


FIG. 5

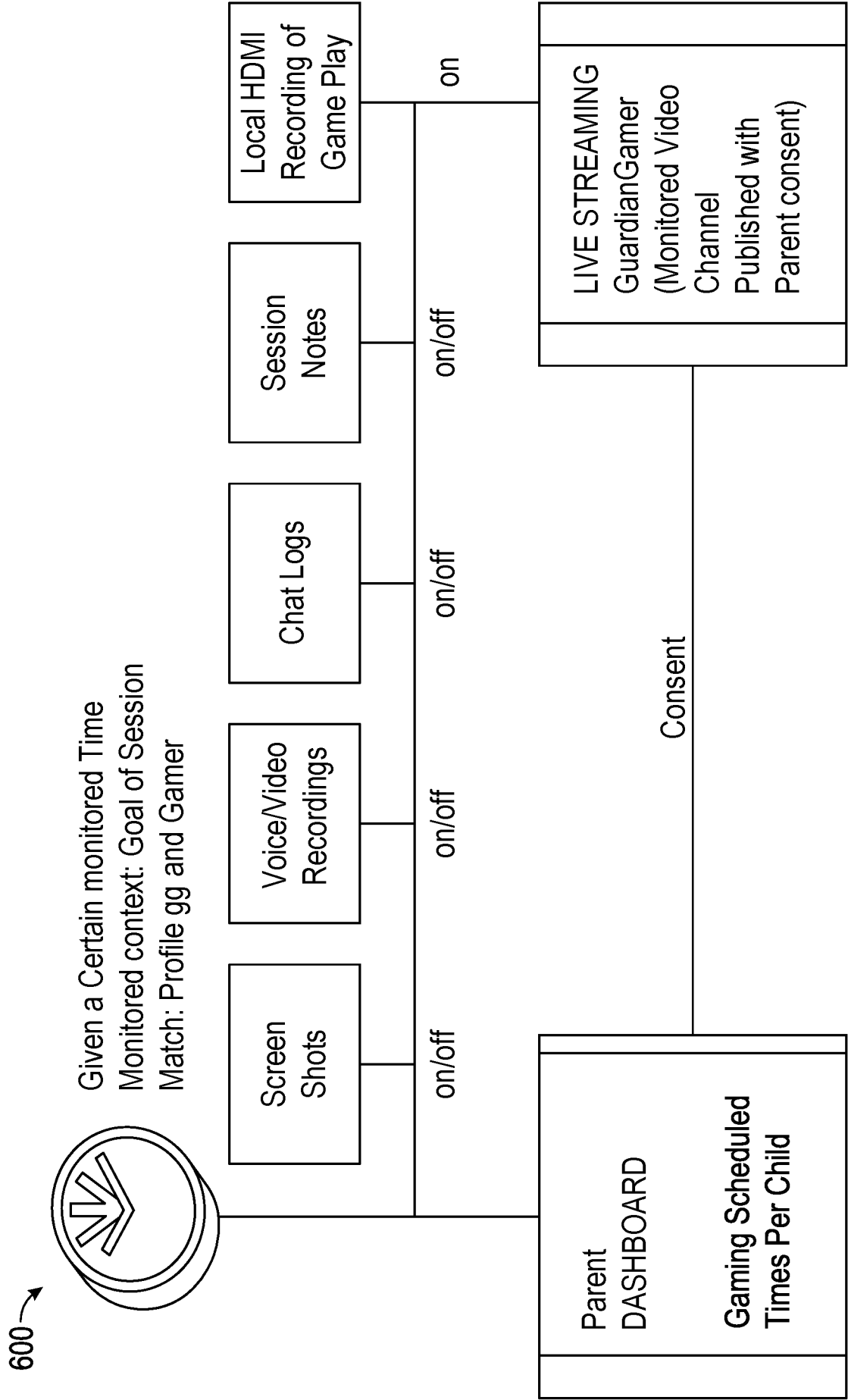


FIG. 6

Discovery Journey

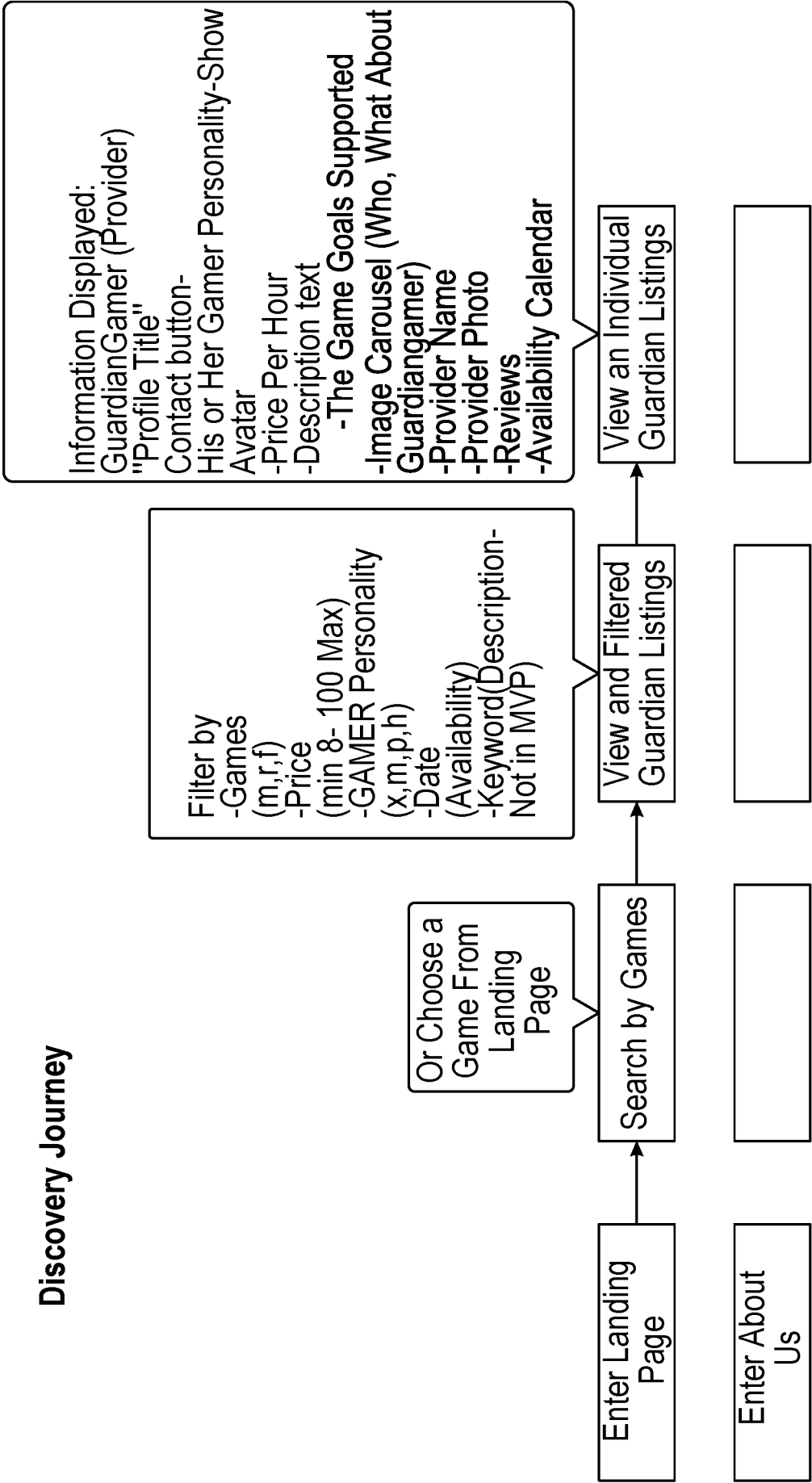


FIG. 7

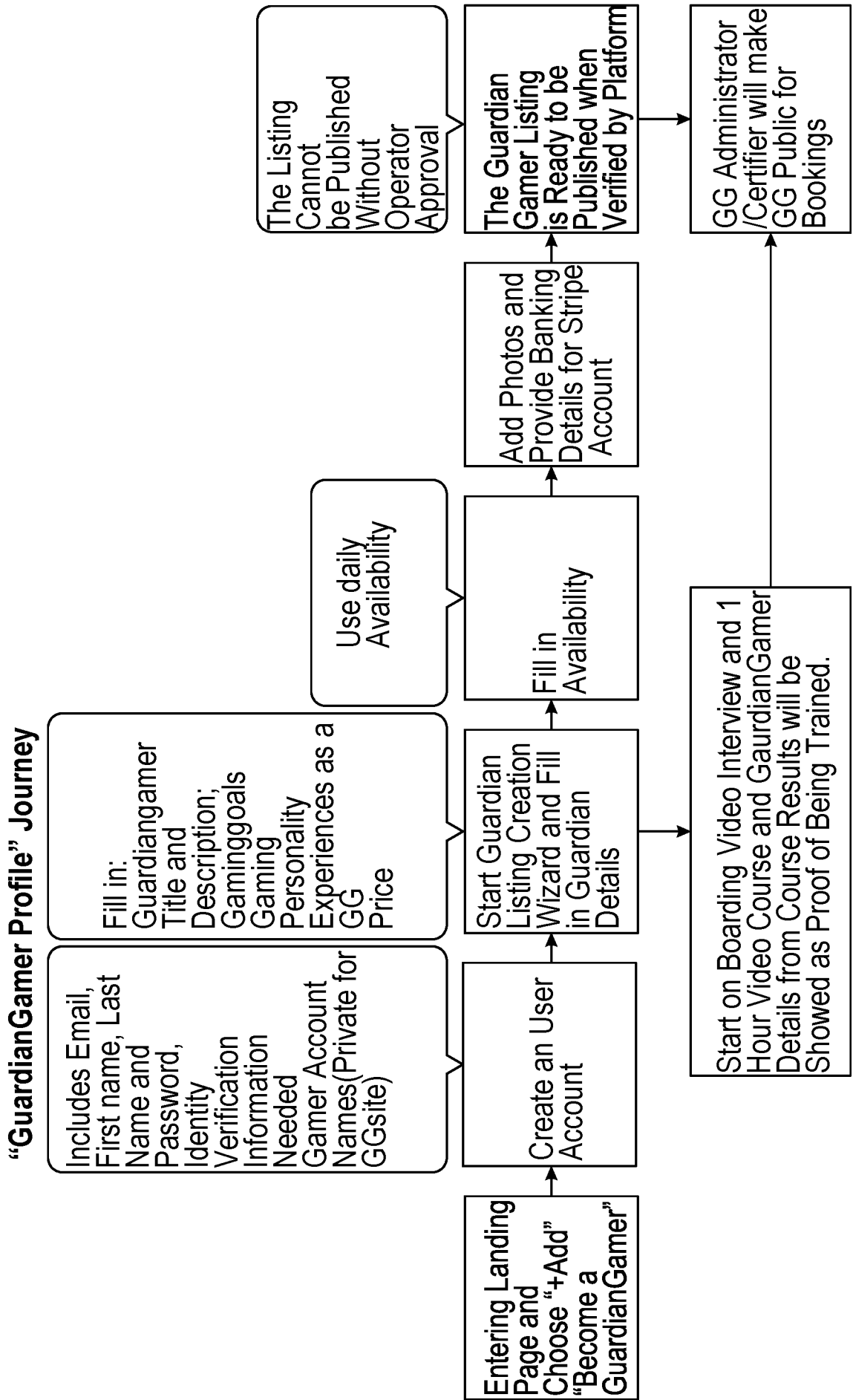


FIG. 8

**“Parent / Family Profile”
Journet**

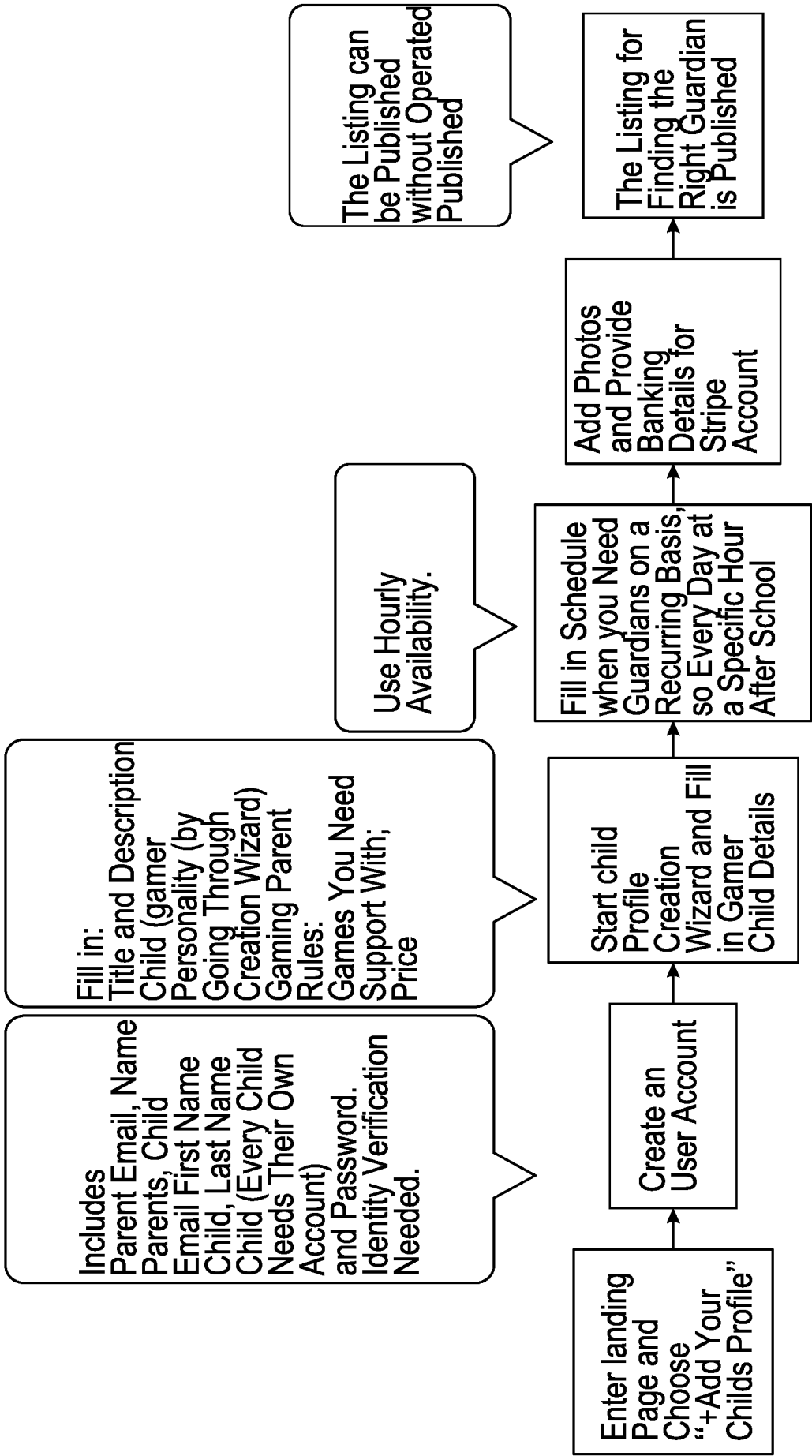


FIG. 9

“Booking an GuardianGamer” Journey

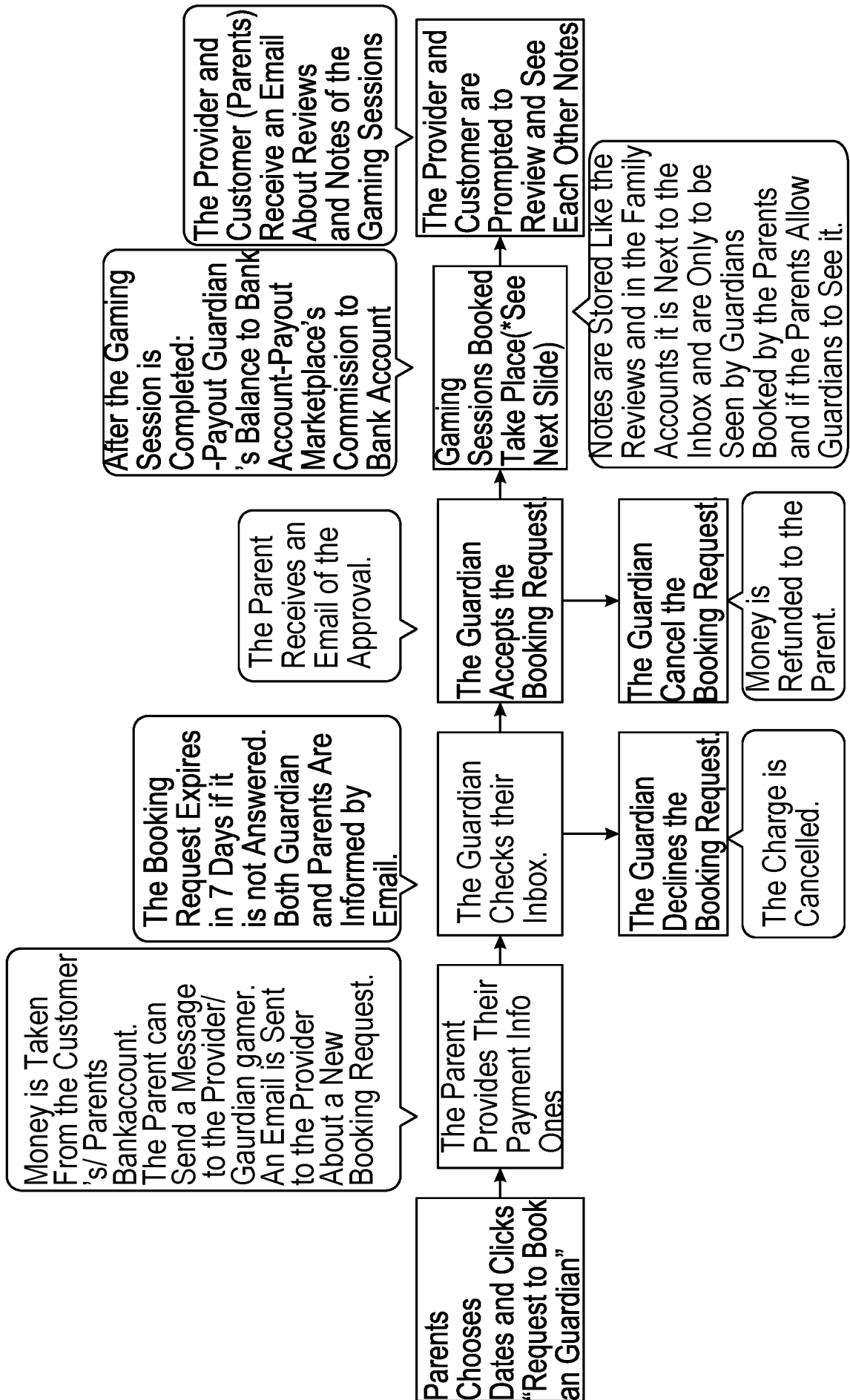


FIG. 10

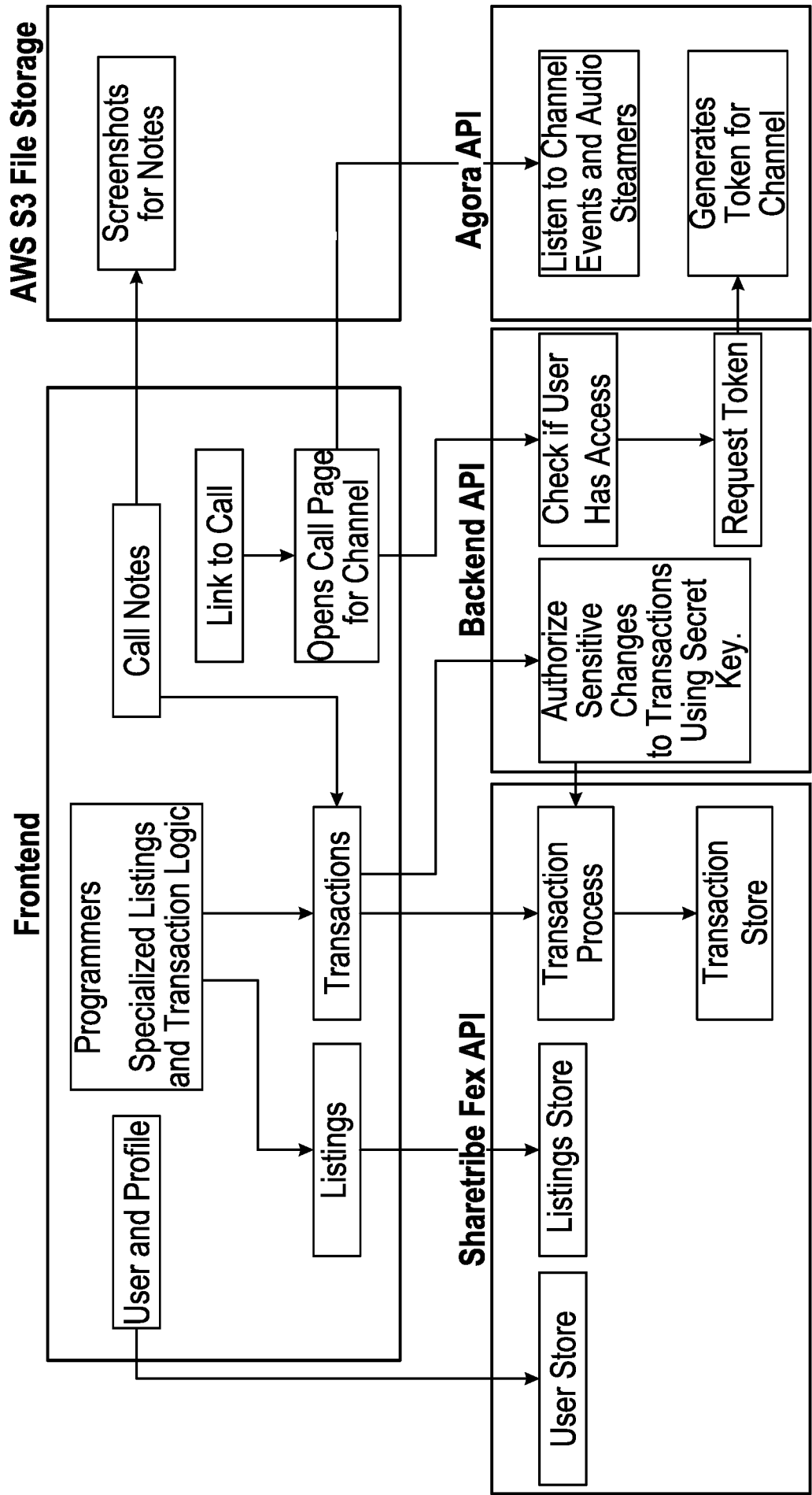


FIG. 11

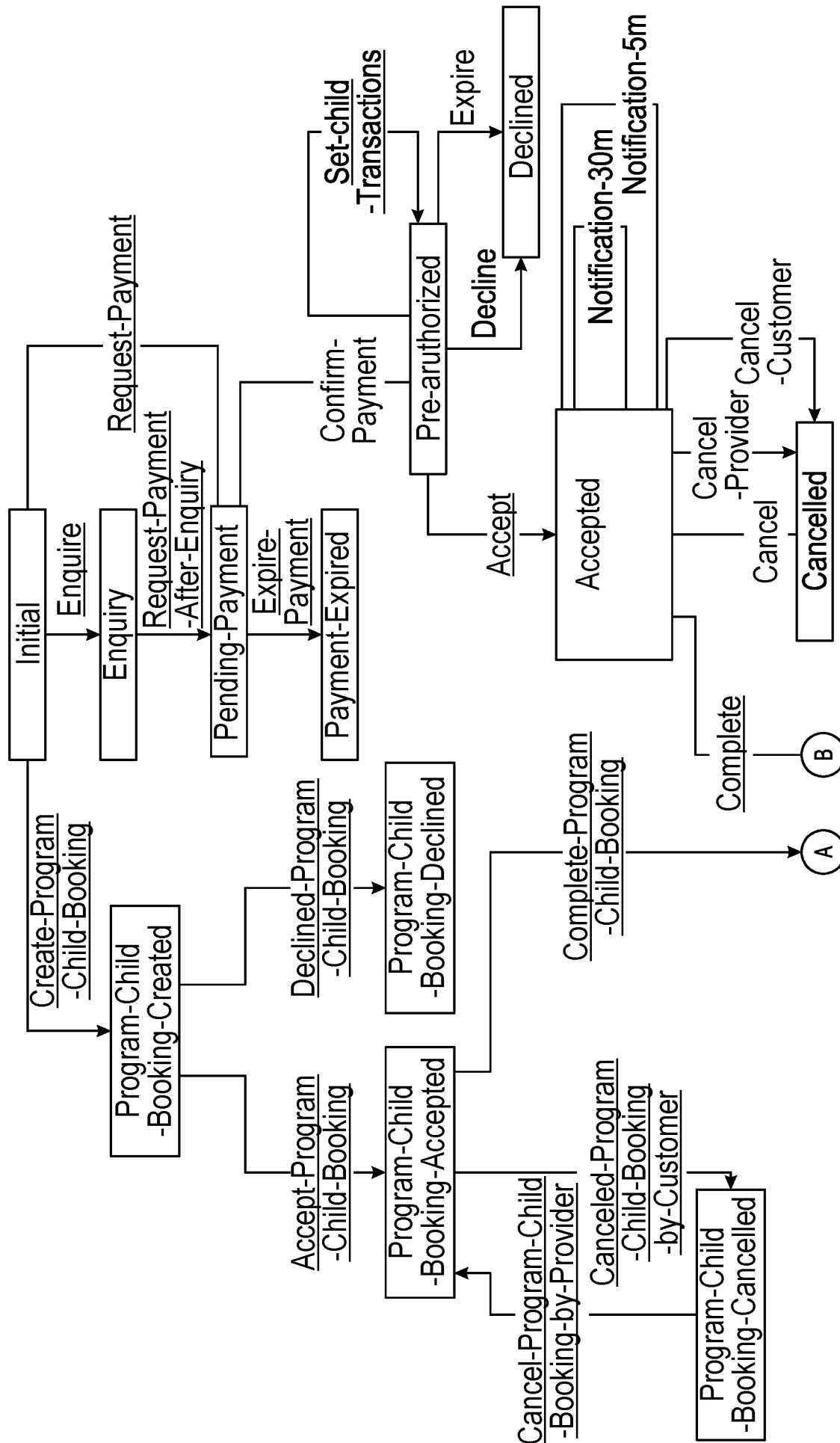


Fig. 12

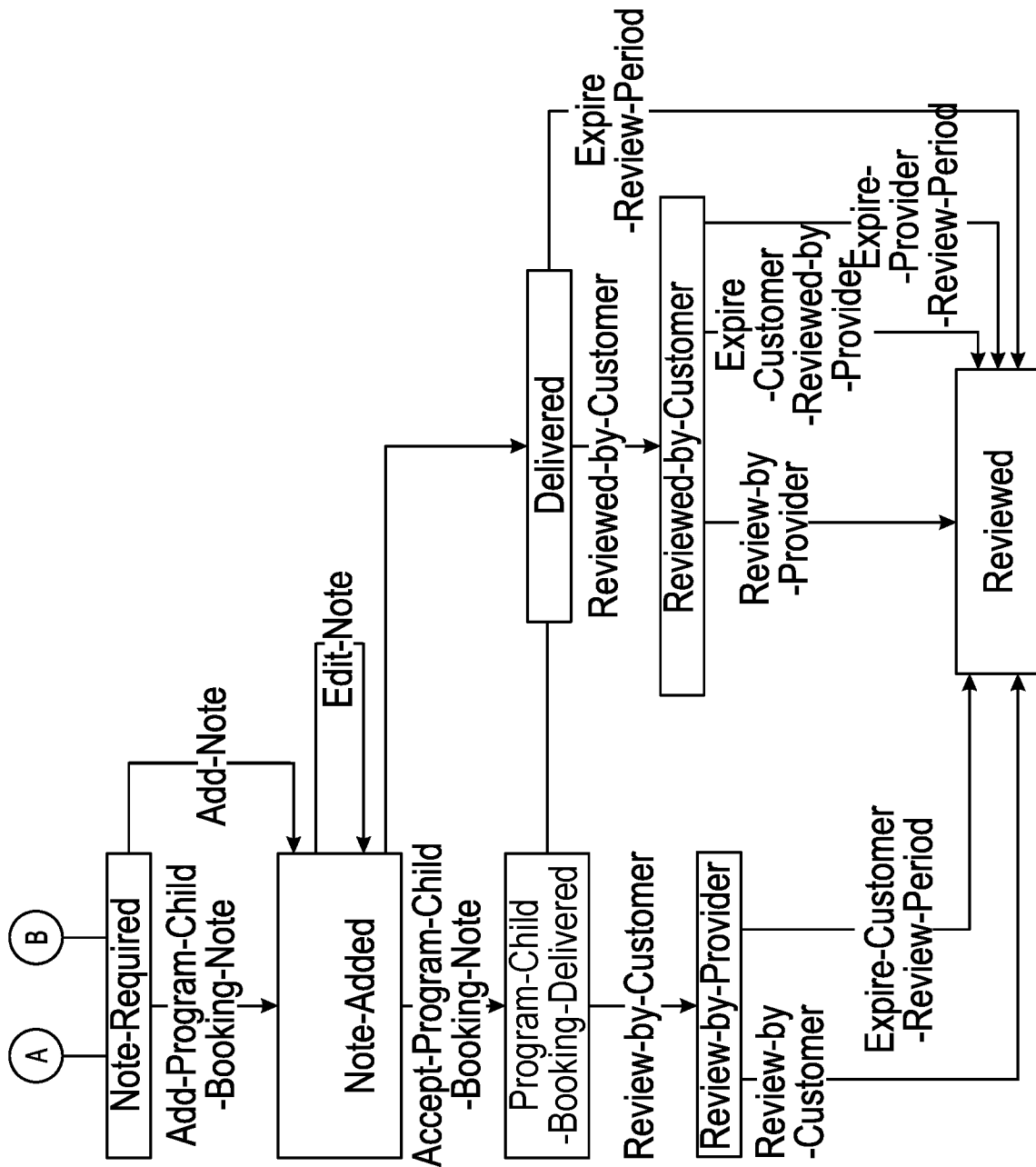


FIG. 12 (Continued)

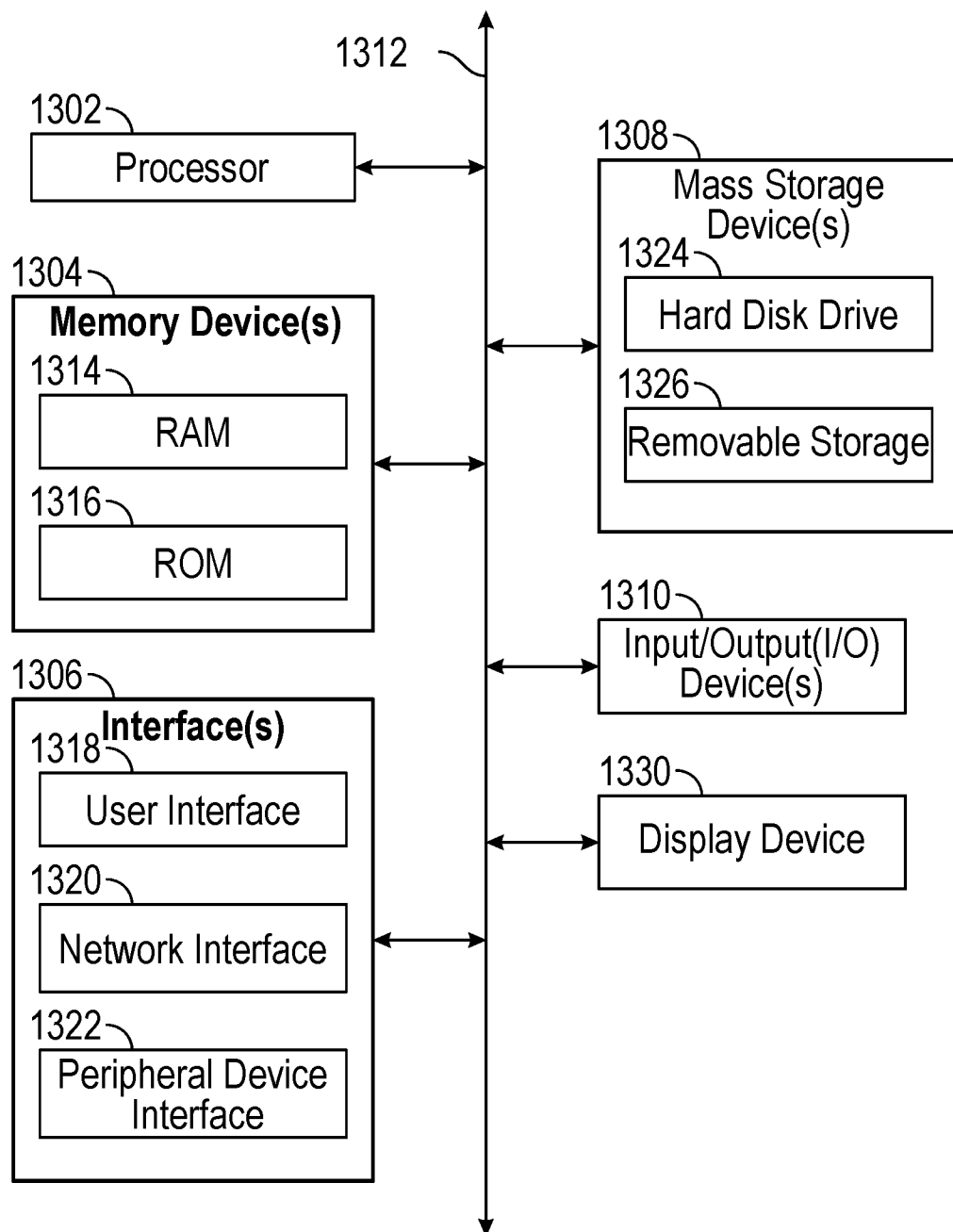


FIG. 13

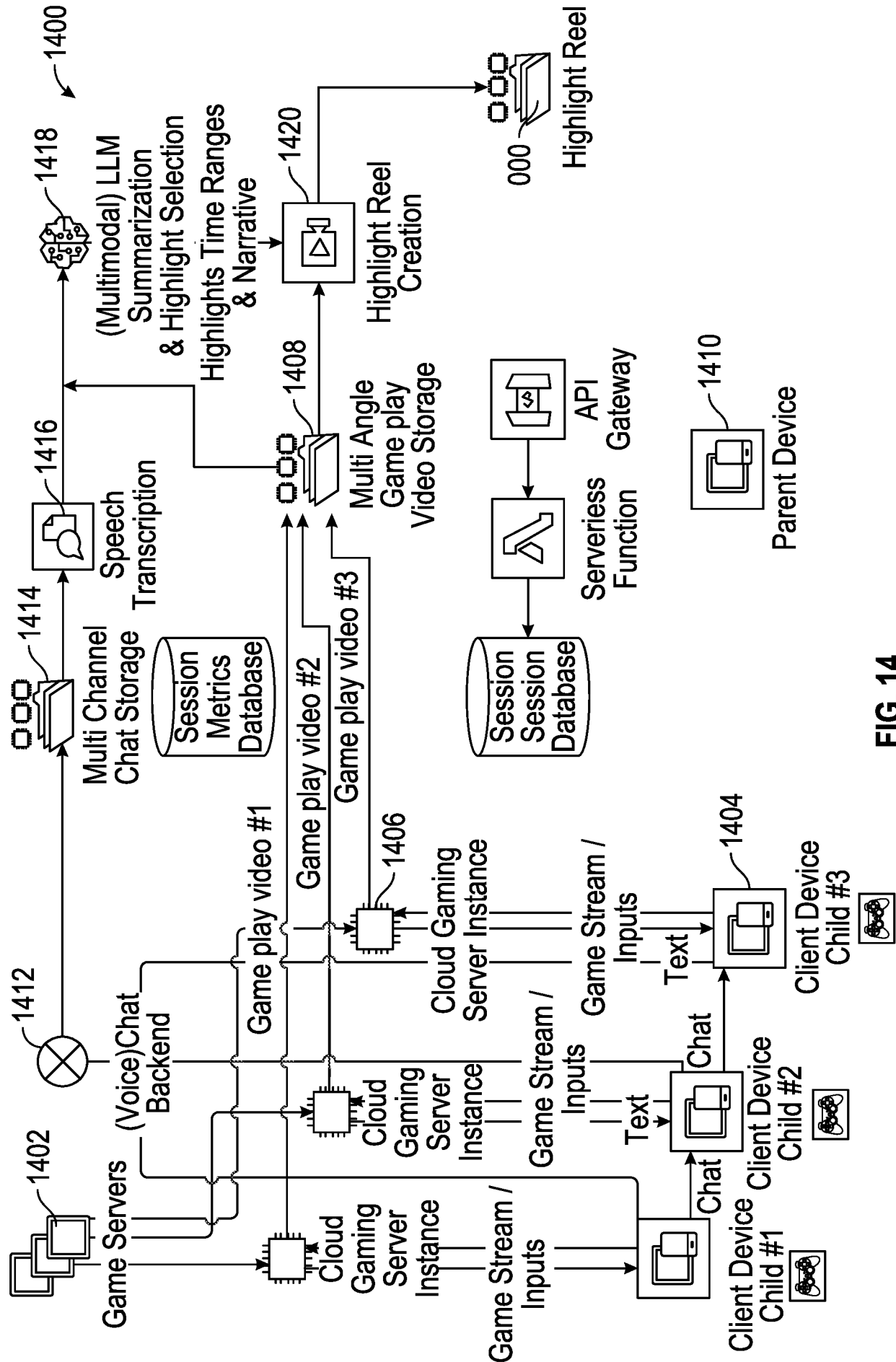


FIG. 14

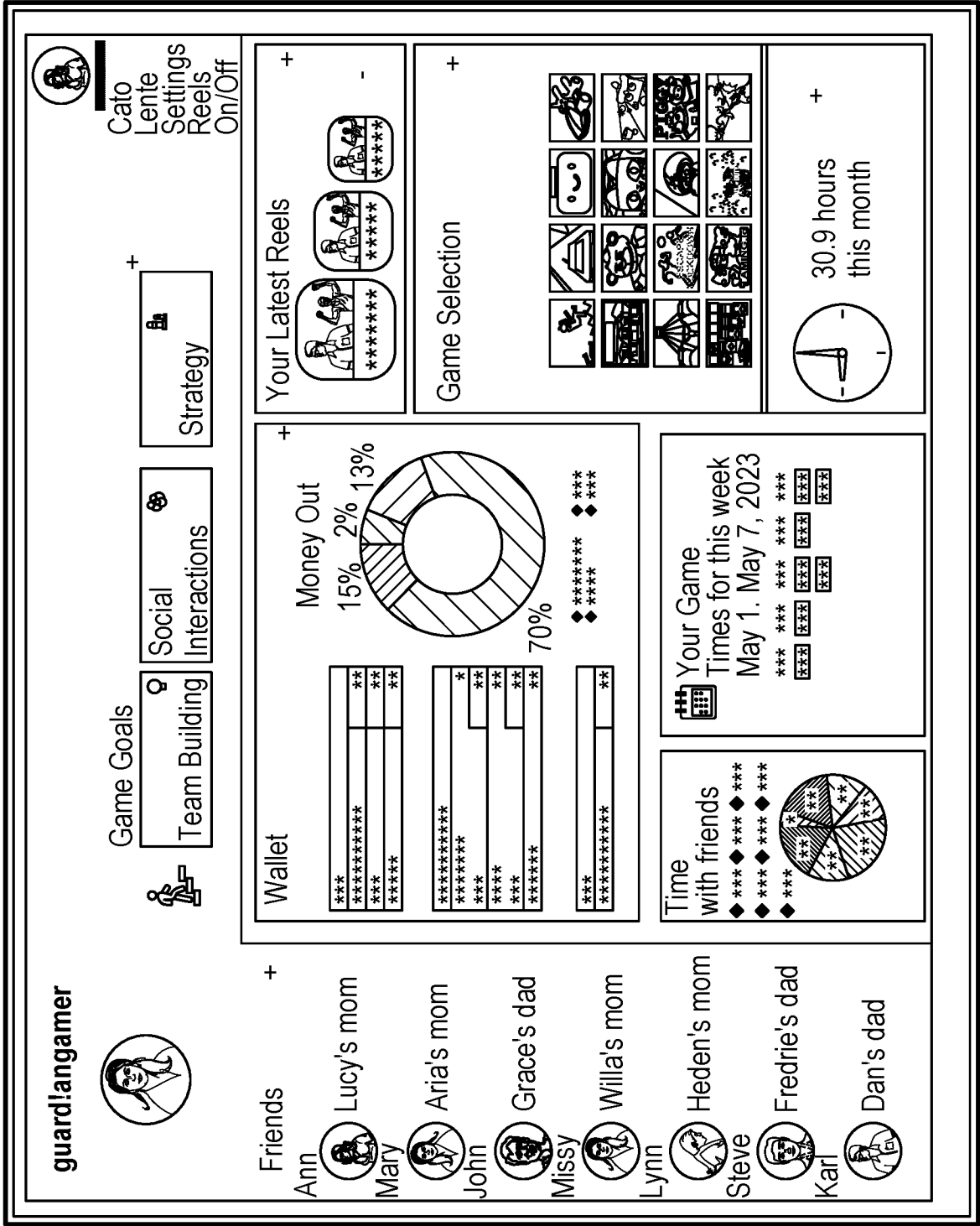


FIG. 15

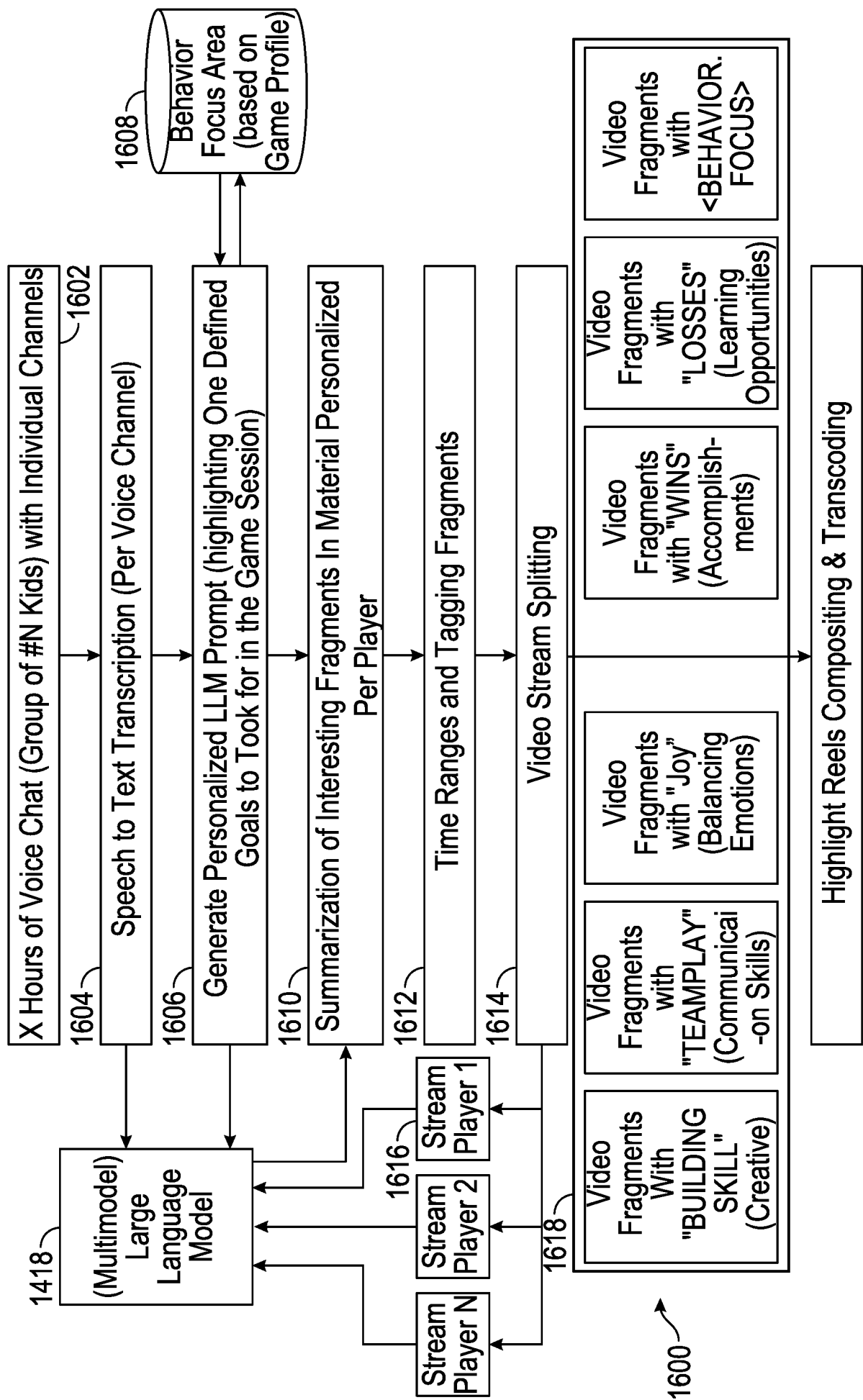
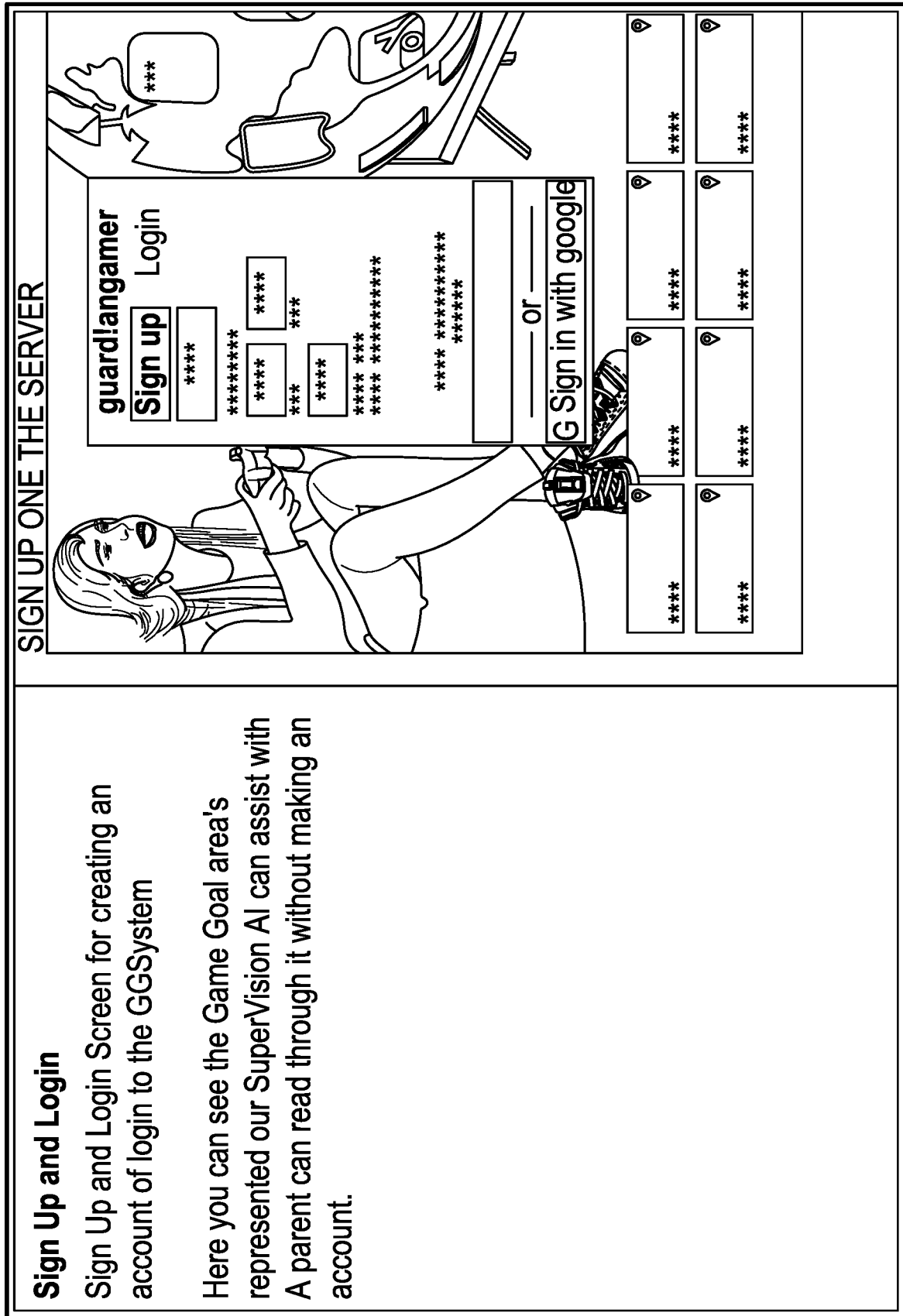


FIG. 16



HighLight Reels Video Player

When an account has been created and the children in the family have played video games, the GGsystem has generated Highlight Reels, the parent can see them after they login. A GGVideo Player will play the reels and they also have an possibility to share it with other friends.

Also the parent can book gamesessions for their child and invite their friends if you want to host a session. You can also find Guardians, who can mentor the kids during these events.

The GG System Keeps track of the times and hours the children played video games. this time will show up on the dashboard a parent can also access.

The parent can see also which time slots your child still have available this week to play vide games. the parent configured the timeslots on the dashboard also.

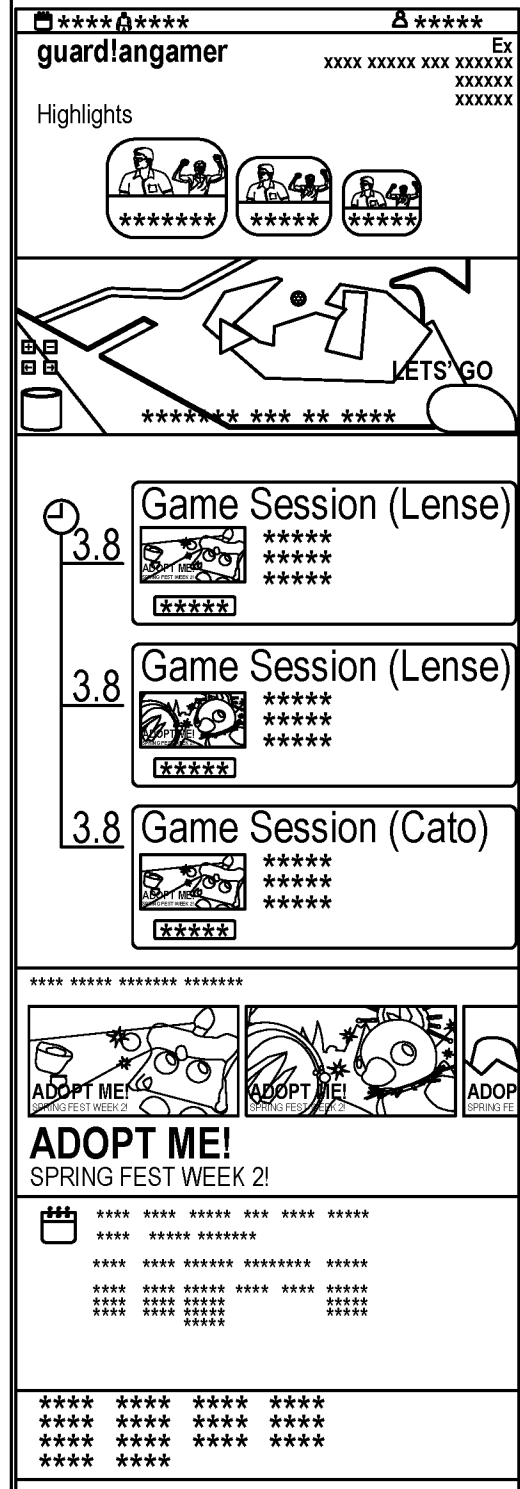


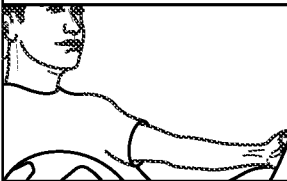
FIG. 18

Game Selection

When family uses the GG System they select the games they think are age appropriate. The GGSystem offers optional based on a game Goals and Behavior Areas game selections the family might want to focus on

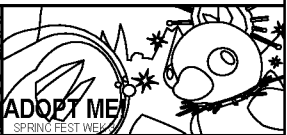
Once these are selected the GGsystem will use these to further personalize the Highlight Reels generated for the family.

Game Selection

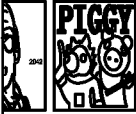


guard!angamer

Your Games

ADOPT ME!






What games do you like? (Select 5)








☐
☐
☐
☐
☐
☐

☐
☐
☐
☐
☐
☐






















FIG. 19

SUBSTITUTE SHEET (RULE 26)

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2024/034383

A. CLASSIFICATION OF SUBJECT MATTER INV. A63F13/86 A63F13/67 A63F13/798 ADD.		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) A63F G07F G06Q Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-Internal, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2017/065889 A1 (CHENG HUI [US]) 9 March 2017 (2017-03-09)	1 - 15
Y	paragraphs [0015], [0033], [0038], [0039], [0041], [0050], [0062], [0067], [0068], [0069], [0070], [0079], [0094], [0098], [0100], [0106]; claim 8 -----	2, 4
X	US 2022/032202 A1 (MATTAR MOHAMED MARWAN [US] ET AL) 3 February 2022 (2022-02-03)	1, 2, 4, 5, 7, 8, 11 - 15
Y	paragraphs [0020], [0061], [0068], [0069], [0093], [0102]; claim 21; figure 4B ----- - / - -	2, 4
☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance;; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance;; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 7 October 2024		Date of mailing of the international search report 18/10/2024
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer Fischer, Jan

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2024/034383

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2022/184502 A1 (VOGEL HENDERIKA [US]) 16 June 2022 (2022-06-16) paragraphs [0035], [0083], [0085], [0087], [0116], [0119], [0128] -----	2, 4
A	US 2017/228600 A1 (SYED ZIA [US] ET AL) 10 August 2017 (2017-08-10) paragraphs [0046], [0054], [0065], [0074] -----	1 - 15
A	WO 2023/283716 A1 (SPORTLOGIQ INC [CA]) 19 January 2023 (2023-01-19) paragraphs [0045], [0057], [0082], [0100], [0101] -----	1 - 15
A	EP 3 662 981 A2 (SONY INTERACTIVE ENTERTAINMENT INC [JP]) 10 June 2020 (2020-06-10) paragraphs [0059], [0073] -----	1 - 15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2024/034383

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2017065889 A1	09-03-2017	US 2017065888 A1	09-03-2017
		US 2017065889 A1	09-03-2017
US 2022032202 A1	03-02-2022	US 11090568 B1	17-08-2021
		US 2022032202 A1	03-02-2022
US 2022184502 A1	16-06-2022	NONE	
US 2017228600 A1	10-08-2017	NONE	
WO 2023283716 A1	19-01-2023	CA 3221489 A1	19-01-2023
		EP 4371056 A1	22-05-2024
		US 2024119606 A1	11-04-2024
		WO 2023283716 A1	19-01-2023
EP 3662981 A2	10-06-2020	CN 111265859 A	12-06-2020
		EP 3662981 A2	10-06-2020
		EP 3662982 A2	10-06-2020
		GB 2579603 A	01-07-2020
		GB 2579693 A	01-07-2020
		JP 2020121102 A	13-08-2020
		US 2020184225 A1	11-06-2020
		US 2020186897 A1	11-06-2020