



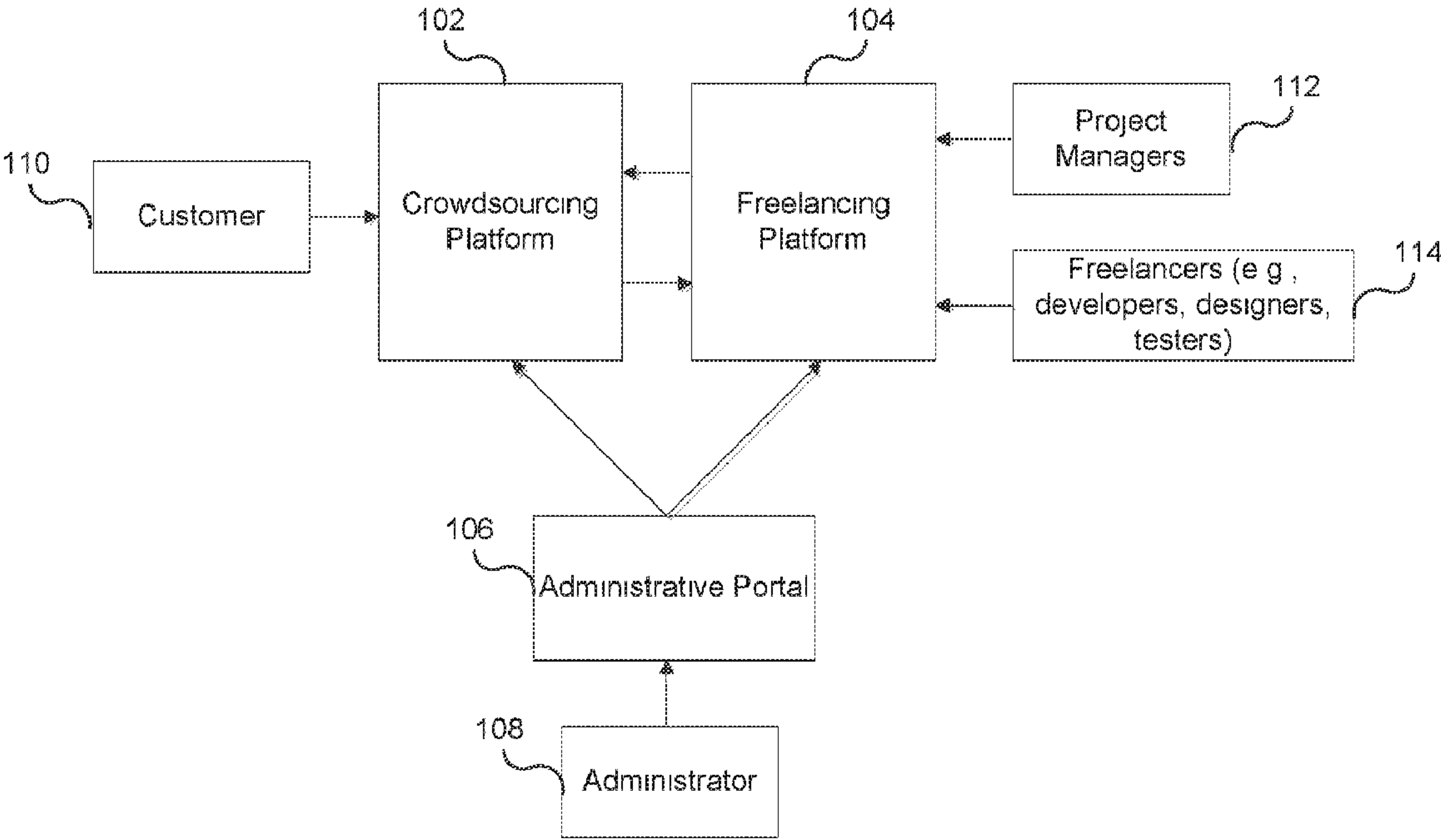
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(54) Title: SYSTEMS AND METHODS FOR CROWDSOURCING TECHNOLOGY PROJECTS



**FIG. 1A**

(57) **Abrégé/Abstract:**  
The technology introduced here enables a customer to readily view, and securely connect with, project managers and freelancers who complete projects on behalf of the customer. The customer initially posts a project specification through a crowdsourcing



(57) **Abrégé(suite)/Abstract(continued):**

platform. Project managers compete with one another by submitting proposals for the project through a freelancing platform. When a proposal is selected by the customer, the project manager corresponding to the proposal can construct a team that includes one or more freelancers who complete the technology project under the supervision of the project manager. As milestones are completed, the project manager and/or freelancer(s) can be paid from an escrow account maintained by the administrator. Additionally or alternatively, invoices for work completed by the team could be generated and delivered to the customer.



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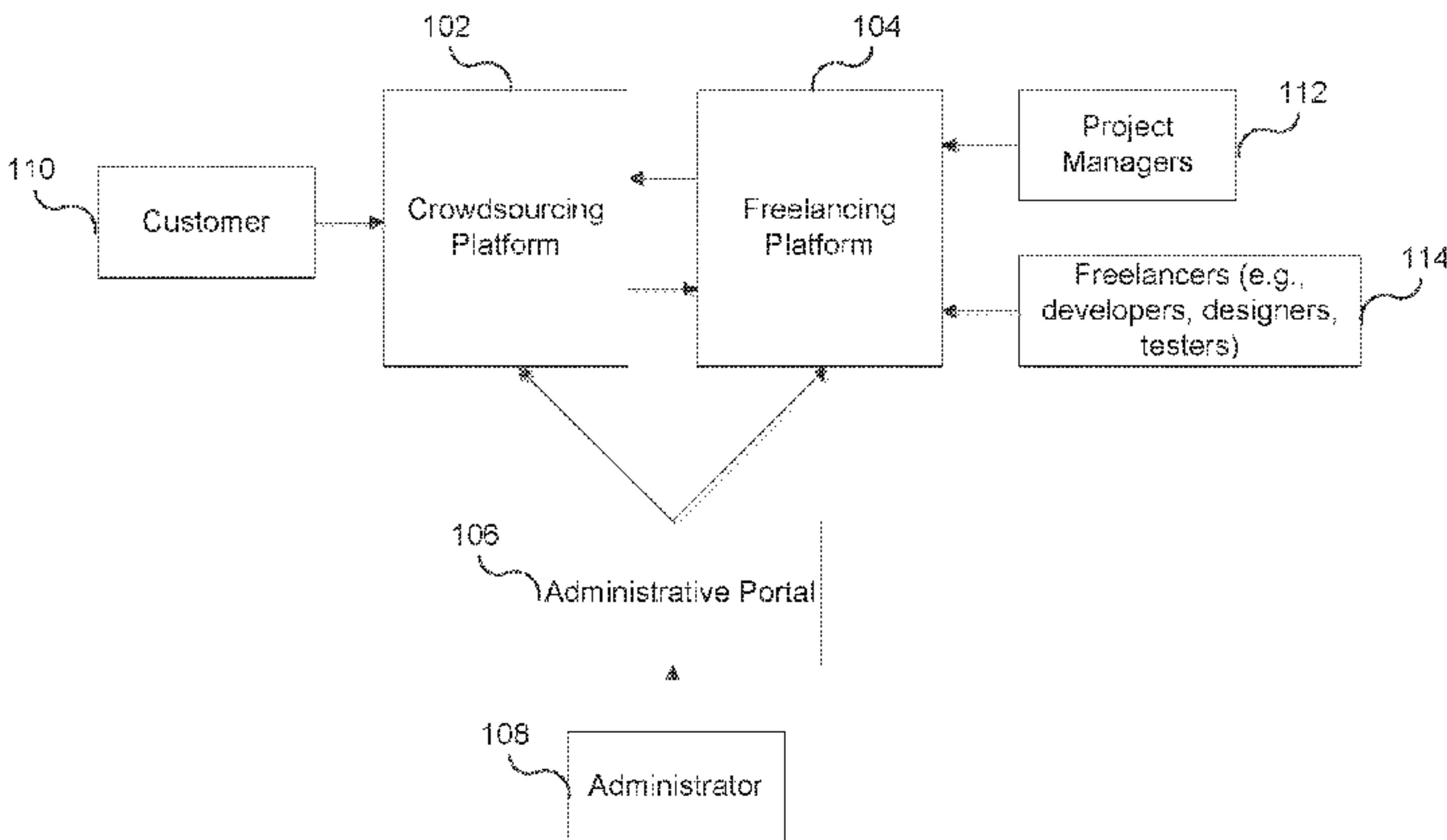


FIG. 1A

(57) Abstract: The technology introduced here enables a customer to readily view, and securely connect with, project managers and freelancers who complete projects on behalf of the customer. The customer initially posts a project specification through a crowdsourcing platform. Project managers compete with one another by submitting proposals for the project through a freelancing platform. When a proposal is selected by the customer, the project manager corresponding to the proposal can construct a team that includes one or more freelancers who complete the technology project under the supervision of the project manager. As milestones are completed, the project manager and/or freelancer(s) can be paid from an escrow account maintained by the administrator. Additionally or alternatively, invoices for work completed by the team could be generated and delivered to the customer.



## SYSTEMS AND METHODS FOR CROWDSOURCING TECHNOLOGY PROJECTS

### CROSS REFERENCE TO RELATED APPLICATION

**[0001]** This application claims the benefit of U.S. Provisional Application Serial No. 62/106,131 filed January 21, 2015, the entirety of which is incorporated herein by this reference thereto.

### FIELD OF THE INVENTION

**[0002]** At least one embodiment of the present disclosure pertains to systems and techniques for crowdsourcing a technology project, and more particularly, for connecting a customer or a partner's customer with freelance project managers who compete for the technology project posted by the customer.

### BACKGROUND

**[0003]** Companies have traditionally outsourced work associated with certain technology projects to third-party consulting firms to reduce costs and obtain expertise in a given area (e.g., software programming). Many of these companies (or the third-party consultant used by those companies) have been leveraging offshore resources in countries such as India, Russia, and China, to further reduce costs. Historically, these offshore resources have been hired directly by the business entity/third-party consultant or have been sourced through sub-contracting firms, consulting partners, or as independent contractors.

**[0004]** Freelancing is a relatively new trend that allows companies to source freelance talent from around the world for all types of work. Websites that facilitate freelancing have become popular for identifying and managing freelance talent for a wide variety of tasks. However, while startup companies ("startups") and small businesses are increasingly using such websites to source talent (i.e., identify and employ freelancers), mid-size and large companies have refrained from using these websites to a great extent. These larger entities instead continue to hire in-house staff to handle the sourcing of talent or outsource the work to third-party consulting firms.

**[0005]** There are several reasons for this, such as the lack of verification of project managers or of freelancers, the need for a team of freelancers, and the lack of ownership and accountability for delivery. Consequently, most (if not all) freelancing-related websites target startups and smaller companies because the above issues are not as important to these entities.

### BRIEF DESCRIPTION OF THE DRAWINGS

**[0006]** One or more embodiments of the present invention are illustrated by way of example and not limitation in the figures of the accompanying drawings, in which like references indicate similar elements.



[0007] Figure 1A depicts the relationship between the crowdsourcing platform, the freelancing platform, and the administrative portal.

[0008] Figure 1B depicts the relationship between the crowdsourcing platform, the freelancing platform, the partner platform, the administrative portal, and the partner administrative portal.

[0009] Figure 2 shows an example of system architecture that may be used to build the crowdsourcing platform, the freelancing platform, the partner platform, and/or the administrative portal.

[0010] Figure 3A depicts an example workflow and interactions between a customer, project manager, administrator, and freelancers.

[0011] Figure 3B depicts an example workflow and interactions between a project manager, administrator, partner administrator, and freelancers.

[0012] Figure 4 shows examples of tools that could be leveraged by a customer, project manager, and freelancers to complete a project either outside of or through the freelancing platform.

[0013] Figure 5A shows an example of a graphical user interface (GUI) that is viewable through the crowdsourcing platform and with which a customer can interact.

[0014] Figure 5B shows an example of a GUI that is viewable through the crowdsourcing platform and with which a customer can interact.

[0015] Figure 5C shows an example of a GUI that is viewable through the crowdsourcing platform and with which a customer can interact.

[0016] Figure 5D shows an example of a GUI that is viewable through the crowdsourcing platform and with which a customer can interact.

[0017] Figure 5E shows an example of a GUI that is viewable through the crowdsourcing platform and with which a customer can interact.

[0018] Figure 5F shows an example of a GUI that is viewable through the crowdsourcing platform and with which a customer can interact.

[0019] Figure 5G shows an example of a GUI that is viewable through the crowdsourcing platform and with which a customer can interact.

[0020] Figure 5H shows an example of a GUI that is viewable through the crowdsourcing platform and with which a customer can interact.

[0021] Figure 5I shows an example of a GUI that is viewable through the crowdsourcing platform and with which a customer can interact.

[0022] Figure 5J shows an example of a GUI that is viewable through the crowdsourcing platform and with which a customer can interact.



**[0023]** Figure 5K shows an example of a GUI that is viewable through the crowdsourcing platform and with which a customer can interact.

**[0024]** Figure 5L shows an example of a GUI that is viewable through the crowdsourcing platform and with which a customer can interact.

5 **[0025]** Figure 5M shows an example of a GUI that is viewable through the crowdsourcing platform and with which a customer can interact.

**[0026]** Figure 5N shows an example of a GUI that is viewable through the crowdsourcing platform and with which a customer can interact.

10 **[0027]** Figure 6A shows an example of a GUI that is viewable through the freelancing platform and with which a project manager can interact.

**[0028]** Figure 6B shows an example of a GUI that is viewable through the freelancing platform and with which a project manager can interact.

**[0029]** Figure 6C shows an example of a GUI that is viewable through the freelancing platform and with which a project manager can interact.

15 **[0030]** Figure 6D shows an example of a GUI that is viewable through the freelancing platform and with which a project manager can interact.

**[0031]** Figure 6E shows an example of a GUI that is viewable through the freelancing platform and with which a project manager can interact.

20 **[0032]** Figure 6F shows an example of a GUI that is viewable through the freelancing platform and with which a project manager can interact.

**[0033]** Figure 6G shows an example of a GUI that is viewable through the freelancing platform and with which a project manager can interact.

**[0034]** Figure 6H shows an example of a GUI that is viewable through the freelancing platform and with which a project manager can interact.

25 **[0035]** Figure 6I shows an example of a GUI that is viewable through the freelancing platform and with which a project manager can interact.

**[0036]** Figure 6J shows an example of a GUI that is viewable through the freelancing platform and with which a project manager can interact.

30 **[0037]** Figure 6K shows an example of a GUI that is viewable through the freelancing platform and with which a project manager can interact.

**[0038]** Figure 6L shows an example of a GUI that is viewable through the freelancing platform and with which a project manager can interact.

**[0039]** Figure 6M shows an example of a GUI that is viewable through the freelancing platform and with which a project manager can interact.

35 **[0040]** Figure 7A shows an example of a GUI that is viewable through the freelancing platform and with which a freelancer can interact.



**[0041]** Figure 7B shows an example of a GUI that is viewable through the freelancing platform and with which a freelancer can interact.

**[0042]** Figure 7C shows an example of a GUI that is viewable through the freelancing platform and with which a freelancer can interact.

5 **[0043]** Figure 7D shows an example of a GUI that is viewable through the freelancing platform and with which a freelancer can interact.

**[0044]** Figure 7E shows an example of a GUI that is viewable through the freelancing platform and with which a freelancer can interact.

10 **[0045]** Figure 7F shows an example of a GUI that is viewable through the freelancing platform and with which a freelancer can interact.

**[0046]** Figure 7G shows an example of a GUI that is viewable through the freelancing platform and with which a freelancer can interact.

**[0047]** Figure 7H shows an example of a GUI that is viewable through the freelancing platform and with which a freelancer can interact.

15 **[0048]** Figure 7I shows an example of a GUI that is viewable through the freelancing platform and with which a freelancer can interact.

**[0049]** Figure 7J shows an example of a GUI that is viewable through the freelancing platform and with which a freelancer can interact.

20 **[0050]** Figure 7K shows an example of a GUI that is viewable through the freelancing platform and with which a freelancer can interact.

**[0051]** Figure 7L shows an example of a GUI that is viewable through the freelancing platform and with which a freelancer can interact.

**[0052]** Figure 7M shows an example of a GUI that is viewable through the freelancing platform and with which a freelancer can interact.

25 **[0053]** Figure 8 is a high-level block diagram of a computing system that can be used to facilitate at least some of the techniques described herein.



DETAILED DESCRIPTION

**[0054]** The technology introduced here includes methods, apparatuses, and systems that enable a representative from a company (also referred to as a “customer”) to readily view, and securely connect with, multiple project managers who compete for a technology project posted by the customer. More specifically, the customer is able to select a proposal for completing the technology project from among multiple proposals submitted by different project managers. When a proposal is selected by the customer, the project manager corresponding to the proposal can construct a team that includes one or more freelancers who may work together to complete the technology project under the supervision of the project manager. A “customer” is any business or business representative that has a need for the services of multiple freelancers (e.g., a freelance project manager, also referred to as a “project manager,” and at least one other freelance worker, also referred to as a “freelancer”). A “customer” could also be a customer of either an administrator (or an administrative entity) or a partner of the administrator. A partner could be, for example, a consulting firm that would like to use a crowdsourcing platform for its customers. Project managers and freelancers are independent consultants who provide services to customers.

**[0055]** For example, platforms are illustrated and described herein that allow a customer to select a project manager from a pool of project managers who compete with one another for technology projects posted by customers. Generally, each project manager in the pool is verified by an administrator who oversees the crowdsourcing process. Platforms are also described herein that allow project managers to review and access resources (e.g., freelancers and tools, such as proprietary technology and/or third-party technologies) that can be used to complete the project for which the project manager has been selected.

**[0056]** A crowdsourcing platform allows customers of all sizes, from startups to large enterprises, to post details regarding a project. For example, a customer could post a project specification that includes parameters for completing the project, the desired timeline for completion, the expected budget, etc. Via the crowdsourcing platform, the customer is also able to view proposals(s) submitted by project managers, award the project to one of the project managers, and manage execution (e.g., review progress) of the project. The project manager chosen by the customer may also be referred to as the “account manager.”

**[0057]** A partner platform may also allow customers of a partner (e.g., a consulting firm) to use the crowdsourcing platform in the same manner as other customers use the crowdsourcing platform. In such embodiments, the partner administrator (e.g., an employee of the partner) can use a partner administrative portal that is configured to have the look and



feel of an interface associated with the partner. For example, the partner administrative portal may include the logo, tagline, and/or color scheme of the partner.

**[0058]** A freelancing platform, meanwhile, allows project managers to submit proposals for projects and execute projects (e.g., by selecting freelancers for the team and assigning tasks to those freelancers). For example, project managers, each of whom are verified by an administrator that manages the crowdsourcing and freelancing platforms, can submit proposals to a customer for a posted project specification and, if awarded the project, identify and select freelancers (e.g., developers, designers, testers, etc., who may also be verified by the administrator) required to execute the project. The freelance platform can then be used by the project manager to manage the selected freelancers throughout the lifespan of the project, and to communicate the status of a project to the customer.

**[0059]** Similarly, freelancers can view at least some details of a project specification posted by a customer and express an interest in working on the project. For example, freelancers may only be able to see the title of the project, while additional information may be accessible to project managers. Freelancers may also be able to communicate with the project managers before, during, and after the project managers submit proposals. However, after the project is assigned to a project manager, those freelancer(s) who indicated having an interest in the project (or other freelancers) may be selected by the project manager to form the team that completes the project.

**[0060]** Together, the crowdsourcing and freelancing platforms enable a customer to readily choose between multiple project managers who compete for projects, source a team for a project, and manage completion of the project without outsourcing any work to third-party providers. Various embodiments of the technology introduced here employ the crowdsourcing platform used by customers, the freelancing platform used by freelancers, an administrative portal used by the administrator, a workflow and user interface, an execution model, and other functional details and concepts described throughout the disclosure.

**[0061]** Figure 1 depicts an example of a two-sided freelancing system that includes a crowdsourcing platform 102 and a freelancing platform 104. In various embodiments, crowdsourcing platform 102 and a freelancing platform 104 are each connected to one or more computer networks, which may include one or more local area networks (LANs), wide-area networks (WAN), metropolitan area networks (MANs), and/or the Internet. Generally, the crowdsourcing platform 102 is responsible for generating interfaces intended for customer use and the freelancing platform 104 is responsible for generating interfaces intended for freelancer use (e.g., project managers 112 and other freelancers 114). An administrator 108 (e.g., a user or processing system) or an associated business entity can



manage both platforms through an administrative portal 106 (or directly through either platform).

**[0062]** Similarly, as shown in Figure 1B, a partner administrator 116 (e.g. an employee of the partner), can use a partner administrative portal 118 to customize the look and feel of a partner platform 120 that is accessible by customers 122 of the partner. The partner platform 120 could be, for example, substantially similar in purpose to the crowdsourcing platform 102, but may be branded for the partner (e.g., with the partner's logo, tagline, or color scheme).

**[0063]** More specifically, the crowdsourcing and freelancing platforms allow project managers 112, who are verified by the administrator 108, to compete for a project submitted by the customer 110. The project is submitted by the customer 110 through the crowdsourcing platform 102, which is viewable by the customer on a network-accessible user device (e.g., mobile phone, tablet, laptop computer, watch). For example, a customer 110 may submit a project specification that includes various details regarding the project.

**[0064]** Project managers 112 can view projects posted by customers 110, communicate with one another and other freelancers 114 regarding posted projects, etc., using the freelancing platform 104. Freelancers 114 can view at least some information about projects posted by customers 110, communicate with one another and the project managers 112 regarding posted projects, etc., using the freelancing platform 104. For example, a project manager 112 could view all available projects through the freelancing platform, which is viewable by the project manager on a network-accessible user device (e.g., mobile phone, tablet, laptop computer, watch). The crowdsourcing platform, freelancing platform, and partner platform 120 could, for example, be accessed through a website (e.g., as a browser-based portal) or through a software application (e.g., for iOS or Android).

**[0065]** Figure 2 shows an example of system architecture that may be used to build the crowdsourcing platform, the freelancing platform, partner platform, partner administrative portal, and/or the administrative portal. The front-end interface is preferably accessible through multiple devices (e.g., via some combination of a Web browser, software program, iOS application, and Android application). The back-end of the crowdsourcing platform, partner platform and/or freelancing platform can be executed by cloud computing services operated by, for example, Amazon Web Services (AWS) or a similar technology. Moreover, the crowdsourcing platform, the freelancing platform, partner platform, partner administrative portal, and the administrative portal could all reside on the same instance of AWS (e.g., but in a different folder using a different port for web access) and share the same database.

**[0066]** The crowdsourcing platform and/or the freelancing platform may be built using the JavaScript MEAN stack (i.e., MongoDB, Express.js, Angular.js, Node.js), for example. In



such embodiments, MongoDB can serve as the database server and Angular.js can represent the front-end interface for the platform(s), while Express.js and Node.js can contain the back-end logic for both the Web interface and the mobile application, which can access the Web interface via representational state transfer (REST) application

5 programming interface (API) calls.

**[0067]** Features or services provided by AWS can also be used to implement key functions. For example, AWS Simple Email Server (SES) or an alternate email messaging program may be used to support email functionality, while AWS Simple Cloud Storage (S3) or an alternate storage technology could be used to store content, such as files.

10 Authentication technologies (e.g., the passport program) can be used to authenticate users of the crowdsourcing and/or freelancing platforms. One skilled in the art will recognize that these are examples of technologies that may be used in some embodiments. Other embodiments may implement some or none of these technologies.

**[0068]** Figure 3A depicts an example workflow and interactions between a customer, project manager, administrator, and one or more freelancers (e.g., a developer, designer, tester). Figure 3B depicts an example workflow and interactions between a customer, project manager, administrator, partner administrator, and one or more freelancers (e.g., a developer, designer, tester). Customers are able to sign up and log into the crowdsourcing platform by entering basic information, such as name and company email address (step 301). Before signing up for the crowdsourcing services facilitated by the crowdsourcing platform, customers may have to agree to certain terms and conditions, as well as a privacy policy. After a customer has signed up, an administrator (e.g., an administrator who manages both platforms) verifies the customer and activates the customer's account (step 302). The customer will generally not be permitted to post projects on the crowdsourcing platform until the verification process has been completed by the administrator (e.g., by validating the company has been setup to process payments). Similarly, partner's customers may be able to sign up and log into the crowdsourcing platform by entering basic information, such as name and company email address using the partner platform. Before signing up for the crowdsourcing services facilitated by the crowdsourcing platform, partner's customers may have to agree to certain terms and conditions, as well as a privacy policy. After a customer has signed up, a partner administrator (e.g., an administrator from a partner company, such as a consulting firm) verifies the customer and activates the customer's account (step 327). Partner customers generally are not permitted to post projects on the crowdsourcing platform until the verification process has been completed by the partner's administrator. After the customer has been verified, the customer can post a project specification to the crowdsourcing platform that includes details on the project to be completed by the project manager and one or more freelancers (step 303).



[0069] Similarly, project managers and freelancers are able to join the network of freelance talent by registering for the freelancing platform (steps 304 and 305). During the registration process, project managers and freelancers typically sign an agreement that represents an acceptance of the terms and conditions for using the freelancing platform, as well as a privacy policy. The agreement can also, implicitly or explicitly, include non-disclosure language that restricts what the project managers and freelancers are able to disclose about a project. The project managers and/or freelancers also typically enter their email address, home address, and/or other details that are used to verify the project manager/freelancer (e.g., via a background check) (step 306). Creating an account for the freelancing platform can be done by freelancers via manual entry (e.g., by entering information through a web browser) or by linking the account to a social media account, such as LinkedIn, Facebook, or Twitter.

[0070] Although anyone can sign up for an account and log into the freelancing platform, in at least some embodiments all freelancers are verified before they can view basic details of projects posted by a customer. Similarly, project managers are verified before they are eligible to view projects posted by customers. The verification process could be entirely or partially automated, and the verification process used for customers, project managers, and freelancers may also be different. For example, project managers are generally subjected to additional (or more thorough) background checks than other freelancers. Once a project manager is verified (e.g., by performing a background check, as shown in step 307), the administrator can activate the project manager's account (step 302), thereby completing the registration process.

[0071] In some embodiments, the administrator also has the ability to activate or deactivate customers and/or freelancers at any time, with or without reason. Thus, the administrator can play a role in verifying customers, project managers, and freelancers, in addition to monitoring performance, progress, and other key metrics of the platforms (or of individual projects).

[0072] After the project specification is submitted by the customer, the freelancing platform notifies projects managers about the project. For example, the freelancing platform may be configured to automatically generate an email message that is transmitted to all project managers or a subset of project managers that satisfy certain criteria (e.g., project specification indicates domain knowledge of Healthcare is required). Project managers may also be given a deadline to submit their proposals (though this deadline, if established, could be extended by the customer associated with the project or the administrator). Project managers can use the freelancing platform to review the project specification posted by the customer (step 308). In some instances, it may be necessary for a project manager to



initiate a discussion with the customer (e.g., to get clarification on the project specification or to ask questions regarding the project) (steps 309, 310). Project managers may also be able to initiate discussions with other freelancers (e.g., developers, designers, or testers) to seek expertise, ask questions, pursue suggestions, etc., that may be necessary to prepare the proposal (steps 310, 311).

**[0073]** Although freelancers are normally only able to see basic information about the project, such as the project title and other information provided by the project manager, freelancers can express interest in the project (step 312), and provide suggestions to project managers on a wide variety of topics that allow the project managers to prepare proposals.

The information provided by the freelancers is generally visible to all project managers, although project managers could also solicit individuals privately for answers (e.g., availability during a particular timeframe). Once a project manager has sufficient information to generate and submit a proposal (e.g., through discussion with freelancers and customers or through their own expertise related to the project), the project manager can submit the proposal on the freelancing platform (step 313). The proposal could include, for example, proposed milestones and expected cost(s) for each milestone.

**[0074]** The customer can then review the proposals submitted by the freelance project managers and seek additional clarification, if necessary (step 314). Once the customer has reviewed all of the proposals and acquired sufficient information from the project managers, the customer awards the project to one project manager (step 315). The winning project manager is responsible for completion and delivery of the project.

**[0075]** The winning project manager then creates a team by selecting one or more freelancers (step 316). The customer responsible for posting the project may review the team and ask for additional team member(s) and/or replacement team member(s) if the customer desires additional expertise or believes one or more of the freelancers are not a good fit with the rest of the team (step 317). The selected freelancer(s) could come from the group of freelancers who expressed an interest in the project or previously discussed the project with one of the project managers who submitted a proposal. The winning project manager could also solicit additional freelancers by posting details about the project (e.g., via the freelancing platform), which were previously unavailable to the freelancers. The winning project manager continues assembling freelancers until sufficient talent/experience is found to execute the project. The milestones and pay structure for the team members (i.e., selected freelancers) is typically set by the winning project manager. In some embodiments, all of the team members must review team and accept the milestones and pay structure prior to beginning work on the project (step 318).



**[0076]** Once the winning project manager has assembled the team, the project manager can begin engaging freelancers through the freelancing platform and/or outside the freelancing platform to manage and deliver the project (step 319). The project manager (via the freelancing platform) can indicate when work is completed for each milestone (step 319).

5 **[0077]** Payment for completion of each milestone can be collected and held in escrow by the administrator or the administrator's associated business entity until each of the milestones has been acknowledged as being completed by the customer (step 320). More specifically, the crowdsourcing platform may be configured to deduct fees and pay the project manager and freelancers (step 324) when the customer accepts the deliverable(s) (step 322) and acknowledges (e.g., through the crowdsourcing platform) that a milestone has been completed (step 323). If a freelancer becomes unavailable or does not perform to expectations during execution of the project, the crowdsourcing platform may refrain from making a payment to the freelancer. In such a scenario, the project manager could also remove the freelancer and target a new freelancer to fill in as a replacement.

15 **[0078]** Often, payment for completion of each milestone is completed via conventional invoicing of the customer (e.g., by the administrator) for progress made on the project (step 320). For example, when the customer awards the project to a project manager, the administrator would send an invoice to the customer to collect and keep the money in escrow. Similarly, when a partner customer awards the project to a project manager, the partner administrator would send an invoice to the customer, collect the payment (step 325), and pay the administrator to keep the money in escrow (step 326).

20 **[0079]** If the project manager becomes unavailable or does not perform to expectations, the customer can request a replacement project manager. In such a scenario, the administrator could change the project manager via the administrative portal. Regardless of how the new project manager is selected, the change in project managers is displayed in both the crowdsourcing platform and the freelancing platform upon completion of the change.

25 **[0080]** In some embodiments, the crowdsourcing platform employs a process that attempts to match the customer with certain project managers. These project managers, who may have been approved by the customer in the past or may have worked on projects for the customer in the past, may receive priority when the customer posts a project. For example, this subset of project managers may be the only project managers who are able to view the project and submit proposals.

30 **[0081]** The process used to match a customer with project manager(s) could also consider various customer attributes (e.g., industry, company size, geographical location, project area of expertise) and/or project manager attributes (e.g., skills, geographical



location, work experience through the platforms or otherwise, industry, language, size of customers worked for in the past). The process may also change over time (e.g., as the customer submits more projects or as the project managers gain experience or expertise). The changes may be automatic employed by the algorithm or manually administered by the administrator. A similar process could also be used by the freelancing platform to match project managers with other freelancers (e.g., developers, designers, testers).

**[0082]** Alternatively, the customer could bypass the above-described process of soliciting proposals from project managers who compete for the project and instead request proposals from one or more project managers based on the qualifications of those project manager(s) (e.g., the contents of their profile, previous projects completed, rating on the platform). The remainder of the process can continue to be performed using the crowdsourcing platform and/or freelancing platform as described above.

**[0083]** One of the primary purposes of the crowdsourcing and freelancing platforms is to facilitate the creation of teams of verified freelancers who complete projects on behalf of customers. Figure 4 shows examples of the different types of tools (e.g., third-party tools, cloud-based technologies) that could be leveraged by the customer, project manager, and freelancers to complete a project, as well as interact with one another. Additional tools may be available on the platforms in certain scenarios (e.g., based on project type or customer type). In some embodiments, the project manager and other freelancers are able to access and use all of these tools from within the freelancing platform. Similarly, in some embodiments, the customer is able to access these tools from within the crowdsourcing platform.

**[0084]** These tools are preferably integrated into the crowdsourcing platform and/or freelancing platform to provide a seamless experience for all users (i.e., the customers, project managers, and other freelancers). As noted above, users may be required to sign a confidentiality agreement upon creating an account for the freelancing system. In such instances, the confidentiality agreements may be signed through Docusign (e.g., through a native Docusign interface or from within the crowdsourcing/freelancing platform, which is enabled by an API integration between the crowdsourcing/freelancing platform and Docusign), for example. Freelancers could also be directed to post code directly to Github using a link or via the freelancing platform if Github integration is enabled.

**[0085]** Security and quality of work product are paramount concerns for crowdsourcing delivery models, such as the ones described herein. In some embodiments, the crowdsourcing platform and/or freelancing platform may employ proprietary technologies (e.g., algorithms, techniques for verifying freelancers) to measure and improve the security of both platforms and/or the quality of deliverables created by freelancers. At the completion



of the project or of any milestone, the customer (through the crowdsourcing platform) and/or the project manager (through the freelancing platform) may have the ability to rate and rank each freelancer on the team, the team as a whole, the work product, etc.

**[0086]** Figures 5A-N show examples of graphical user interfaces (GUIs) that are

viewable through the crowdsourcing platform and with which customers can interact.

Figures 5A-N collectively illustrate the flow of screens typically navigated by a customer.

The customer initially signs up for the freelancing service by providing basic information such as first name, last name, company email address, and password (Figure 5A). This basic information is then used to generate an account for the crowdsourcing platform.

**[0087]** Once an account has been created, the customer can post a project by

specifying various details, such as project title, project description, estimated time, estimated budget range, budget approval status, and expected start date (Figures 5B and 5I). The

customer can also supply additional profile information or update previously-supplied profile information at any time by logging into the crowdsourcing platform (Figures 5C-E). For

example, the customer may elect to periodically change the password used to access the crowdsourcing platform in accordance with company rules.

**[0088]** The customer can be taken to a dashboard page ("dashboard") upon logging in

that provides details regarding the customer's profile, previous projects, posted projects, other important or time-sensitive information (e.g., impending deadlines), etc. (Figure 5F).

As noted above, the dashboard may be accessible via a web browser, a mobile application, or both. New customers, meanwhile, can be directed to the new user dashboard that allows each customer to complete a profile, set payment options, and start a new project (Figure 5G).

**[0089]** Customers are able to click on a link to see all projects posted by them (Figure

5H), discuss posted projects with interested project managers using a message board

(Figure 5J), review proposals submitted by project managers (Figure 5K), and award

projects to specific project managers (Figure 5K). In some embodiments, customers are able to review the team (i.e., the project manager and those freelancers selected by the

project manager), as well as the profile, average rating, and other details for each member of

the team (Figure 5L). The customer may also be able rate the project manager through the

crowdsourcing platform. Additionally or alternatively, the customer may be able to view ratings for project managers and/or other freelancers that are generated by one or more algorithms.

**[0090]** The crowdsourcing platform can also be configured to support a wide variety of

third-party tools (Figure 5M). For example, as each milestone is hit, the customer could

update the status of the milestone (e.g., mark as completed), which prompts the release of



the payment to the project manager and/or freelancer(s) from the escrow account maintained by the administrator. Email notifications could also be sent to the customer at different stages of the project (Figure 5N). For example, an email message could be generated by either platform and delivered to the customer when the project manager or an individual freelancer attempts to contact the customer or when the project manager has marked the project (or a milestone) as having been completed.

**[0091]** Figures 6A-M show examples of GUIs that are viewable through the freelancing platform and with which project managers can interact. Figures 6A-M collectively illustrate the flow of screens typically navigated by a project manager. Project managers initially create an account for the freelancing platform by providing basic information such as first name, last name, and email address (Figure 6A). A project manager could also use a social networking account (e.g., LinkedIn, Facebook, or Twitter) to sign up to the platform rather than create a new account (Figure 6B). If a project manager elects to use a social networking account to register for the freelancing platform, information from the social networking account (e.g., name, email, skills) could be used to populate the account for the freelancing platform.

**[0092]** Once an account has been created, the project manager can update profile information at any time. For example, the project manager may choose to specify additional details (Figure 6C) or change a password (Figure 6D). Upon logging in, a project manager is generally taken to a dashboard page ("dashboard") that provides details regarding the project manager's profile, new projects posted by customers, the status of projects (e.g., submitted, in progress), other important or time-sensitive information (e.g., impending deadlines), etc. (Figure 6E). Like the dashboard for customers, the project manager dashboard may be accessible via a web browser, a mobile application, or both. New project managers are typically taken to a new user dashboard that allows each project manager to specify what information should be shown on the dashboard upon logging in (Figure 6F).

**[0093]** Project managers are able to click on links presented on the dashboard to see projects posted by customers and/or search for specific projects (e.g., those projects that match a certain status or project name) (Figure 6G). Upon selecting a posted project, the project manager can view the project specification posted by the customer, as well as any file attachments provided by the customer (Figure 6H). Like the crowdsourcing platform, the freelancing platform provides a discussion forum in which project managers can discuss a posted project with a customer or other freelancers (Figure 6I). The freelancing platform also includes an interface that allows project managers to submit proposals for posted projects (Figure 6J).



**[0094]** A project manager is also able to assemble a team that includes one or more freelancers through the freelancing platform when a project is awarded to the project manager. More specifically, the project manager can select from those freelancers who expressed interest in working on the project, or contributed in freelancer discussions.

5 Additionally or alternatively, the project managers can invite freelancers who did not contribute to discussions or express an interest (Figure 6K), to participate in discussion or to express interest on the project. For example, the project manager could search for all freelancers whose profiles indicate they have a particular skill or are available during the timeframe in which the project is to be completed. The project manager can then use  
10 various tools provided by the freelancing platform, as well as the selected freelancer(s), to complete the project and provide updates to the customer regarding progress (Figure 6L). When the project or a milestone is completed, the project manager can rate the freelancers included in the team through the freelancing platform. Email messages and/or mobile notifications may be sent by either platform to the project manager when, for example, the  
15 customer requests an update or a team member indicates work has been completed (Figure 6M).

**[0095]** Figures 7A-M show examples of GUIs that are viewable through the freelancing platform and with which freelancers (e.g., developers, testers, designers) can interact. Figures 7A-M collectively illustrate the flow of screens typically navigated by a freelancer. A  
20 freelancer initially signs up for the freelancing service offered by the crowdsourcing and freelancing platforms by providing basic information, such as first name, last name, and email address (Figure 7A). This basic information is then used to generate an account for the freelancing platform. A freelancer could also use a social networking account (e.g., LinkedIn, Facebook, or Twitter) to sign up to the platform rather than create a new account  
25 (Figure 7B). Once the freelancer has created an account, the freelancer can supply additional profile information, update existing profile information, or change a password at any time (Figures 7C-D).

**[0096]** The freelancer is typically taken to a dashboard page ("dashboard") upon logging in that provides details regarding the freelancer, new projects posted by customers, traits  
30 desired by project managers who are seeking team members, inquiries from project managers about a position on a development, and other important or time-information (Figure 7E). New freelancers, meanwhile, are typically directed to a new freelancers dashboard that allows each freelancer to complete profile information, sign an online agreement, and submit documents for verification (e.g., legal documents for completion of a  
35 background check) (Figure 7F).



**[0097]** Freelancers may also click on links presented on the dashboard to see projects posted by customers (Figure 7G) or express an interest in working on particular project(s). Although specific details about a project are generally not available to the freelancers until the project has been awarded to a project manager, some basic details posted by the customer, such as project title, may be visible (Figure 7H). Thus, file attachments, project descriptions, proposals, etc., are generally not visible by the freelancers until the project is awarded to a project manager, at which time the project description entered by the winning project manager becomes visible to the freelancers. Freelancers can also use a discussion forum to discuss the project with project managers or with one another (Figure 7I). For example, a freelancer may need additional information regarding expected timelines, necessary skills, etc., before deciding whether he/she is interested in the project. The discussion forum allows freelancers to engage with project managers early on, rather than wait for the project to be awarded to a specific project manager.

**[0098]** Freelancers are also generally able to see the names of those project managers who have submitted a bid (Figure 7J). Moreover, if a freelancer is selected by the project manager to be a member of the development team, the freelancer is generally able to see the entire project team (Figure 7K). Freelancers can then use tools available through the freelancing platform, as well as any other freelancers on the development team, to complete the development milestones set forth in the winning project manager's proposal (Figure 7L). As described above, an administrator could pay each freelancer (e.g., out of escrow) when a development milestone is completed and confirmed by the project manager and the customer. Email messages and/or mobile notifications may also be sent by either platform to the freelancer when, for example, the project manager requests an update on development or another member of the development team requests additional information (Figure 7M).

**[0099]** The interfaces viewable by the customers and project managers/freelancers through the crowdsourcing platform and freelancing platform, respectively, are communicatively linked together. Consequently, as customers update the projects posted to the crowdsourcing platform, the information viewable through the freelancing platform will update in real-time. Moreover, these interfaces may be configured to modify their appearance automatically. For example, once a project is awarded to a project manager, that project manager may have access to an additional interface where the project manager can specify characteristics of freelancers they are looking for (e.g., experience, expertise).  
Example: Development Project for a Mobile Application

**[00100]** ABC Corporation ("ABC Corp."), which is a mid-size corporation, wants to build a mobile application that can be used by end-users to order food from their mobile devices. A



designated representative of ABC Corp. (e.g., Jake Smith, an information technology project manager) creates an account for the crowdsourcing platform and posts a project specification that includes details on the mobile application and how the mobile application is to be built (e.g., which operating systems are to be supported, expected budget, expected timeline). In some embodiments, the freelancing platform also notifies at least some of the project managers that a new project has been posted by ABC Corp.

**[00101]** The project specification is generally visible to all project managers (e.g., through the freelancing platform) who have been verified by an administrator who oversees the crowdsourcing and freelancing systems. However, in some embodiments, the crowdsourcing platform may elect to restrict which project managers are able to view the project specification (e.g., only those project managers who are within a certain geographic area or work in a certain industry). The project managers are then able to review the project specification and submit proposals for the project.

**[00102]** Often, a project manager may need to better understand the project in order to submit a proposal. In such instances, the project manager reaches out to Jake (e.g., via the discussion forum on the freelancing platform) to ask questions regarding the project specification or to request additional details. The project manager can also engage with other freelancers via the discussion forum (e.g., to identify those freelancers with expertise relevant to the project). Once the project manager has sufficient information from Jake and the other freelancers, the project manager can elect to submit a proposal for the project through the freelancing platform that includes a detailed summary of assumptions, milestones, deliverables, and other required information.

**[00103]** Jake then reviews the proposal (as well as proposals submitted by other project managers) using the crowdsourcing platform. The review process typically occurs over a period of time (e.g., one to two weeks), and then Jake awards the project to one project manager (e.g., James Wong) through the crowdsourcing platform. James becomes accountable for the delivery of the project and creates a team that includes other freelancers who have accounts on the freelancing platform. Once the team of one or more other freelancers is formed, James executes the project using tools and resources provided by the freelancing platform, tools provided by third-party providers (i.e., outside the freelancing platform), or some combination thereof.

**[00104]** Here, for example, James' winning proposal includes three milestones:

Milestone 1: Design of the mobile application (\$15,000)

Milestone 2: Demonstration and testing of the mobile application (\$25,000)

Milestone 3: Completion of the mobile application (\$25,000)



**[00105]** Jake Smith can work with the procurement department at ABC Corp. to issue some or all of the payments to an administrator who holds the money in escrow until these development milestones are completed. At the same time, James Wong forms the team that includes one or more freelancers, specifies what resources are available to the team, sets expectations with each freelancer regarding how much they will be paid (e.g., on a per-milestone basis). Here, James has selected two freelancers (Sandeep Vel and Clifton John) who will complete the project.

**[00106]** Generally, each freelancer has a personalized set of milestones. For example, the milestones for Sandeep may include:

Milestone 1 (Customer Milestone: Milestone 1):

Design of the mobile application (\$5,000)

**[00107]** And the milestones for Clifton may include:

Milestone 1: (Customer Milestone: Milestone 2):

Demonstration and testing of the mobile application (\$8,000)

Milestone 2: (Customer Milestone: Milestone 3):

Completion of the mobile application (\$12,000)

**[00108]** James oversees Sandeep and Clifton as work on the mobile application begins and ensures that Sandeep and Clifton complete their individual milestones as the project progresses. James can also lead the team by leveraging the freelancers and the tools provided through the freelancing platform. Once Sandeep has completed the design of the mobile application (i.e., Milestone 1), James can present the design to Jake. If Jake approves the design, Jake confirms the design milestone has been completed through the crowdsourcing platform. The administrator then releases the payment to James and Sandeep upon determining that Jake has acknowledged completion of the milestone. The same process is performed for Milestones 2 and 3. That is, upon confirmation from Jake that the milestone has been completed, the administrator releases the payments to James and Clifton. Jake (or another representative of ABC Corp.) is responsible for ensuring that all deliverables are obtained before confirming (through the crowdsourcing platform) the milestones have been completed.

### Computer System

**[00109]** Figure 8 is a block diagram illustrating an example of a computer system 800 in which at least some operations described herein can be implemented. Note that a computer system that implements the above-described operations can include multiple distinct computing platforms, which may communicate and/or cooperate with each other via direct communications links and/or one or more networks. The computer system may include one or more central processing units ("processors") 802, main memory 806, non-volatile memory



810, network adapter 812 (e.g., network interfaces), video display 818, input/output devices 820, control device 822 (e.g., keyboard and pointing devices), drive unit 824 including a storage medium 826, and signal generation device 830 that are communicatively connected to a bus 816. The bus 816 is illustrated as an abstraction that represents any one or more  
 5 separate physical buses, point to point connections, or both connected by appropriate bridges, adapters, or controllers. The bus 816, therefore, can include, for example, a system bus, a Peripheral Component Interconnect (PCI) bus or PCI-Express bus, a HyperTransport or industry standard architecture (ISA) bus, a small computer system interface (SCSI) bus, a universal serial bus (USB), IIC (I2C) bus, or an Institute of Electrical and Electronics  
 10 Engineers (IEEE) standard 1394 bus, also called "Firewire."

**[00110]** In various embodiments, the computer system 800 operates as a standalone device, although the computer system 800 may be connected (e.g., wired or wirelessly) to other machines. In a networked deployment, the computer system 800 may operate in the capacity of a server or a client machine in a client-server network environment, or as a peer  
 15 machine in a peer-to-peer (or distributed) network environment.

**[00111]** The computer system 800 may be a server computer, a client computer, a personal computer (PC), a user device, a tablet PC, a laptop computer, a personal digital assistant (PDA), a cellular telephone, an iPhone, an iPad, a Blackberry, a processor, a telephone, a web appliance, a network router, switch or bridge, a console, a hand-held  
 20 console, a (hand-held) gaming device, a music player, any portable, mobile, hand-held device, or any machine capable of executing a set of instructions (sequential or otherwise) that specify actions to be taken by the computer system.

**[00112]** While the main memory 806, non-volatile memory 810, and storage medium 826 (also called a "machine-readable medium") are shown to be a single medium, the term  
 25 "machine-readable medium" and "storage medium" should be taken to include a single medium or multiple media (e.g., a centralized or distributed database, and/or associated caches and servers) that store one or more sets of instructions 828. The term "machine-readable medium" and "storage medium" shall also be taken to include any medium that is capable of storing, encoding, or carrying a set of instructions for execution by the computer  
 30 system and that cause the computer system to perform any one or more of the methodologies of the presently disclosed embodiments.

**[00113]** In general, the routines executed to implement the embodiments of the disclosure, may be implemented as part of an operating system or a specific application, component, program, object, module or sequence of instructions referred to as "computer  
 35 programs." The computer programs typically comprise one or more instructions (e.g., instructions 804, 808, 828) set at various times in various memory and storage devices in a



computer, and that, when read and executed by one or more processing units or processors 802, cause the computer system 800 to perform operations to execute elements involving the various aspects of the disclosure.

**[00114]** Moreover, while embodiments have been described in the context of fully functioning computers and computer systems, those skilled in the art will appreciate that the various embodiments are capable of being distributed as a program product in a variety of forms, and that the disclosure applies equally regardless of the particular type of machine or computer-readable media used to actually effect the distribution.

**[00115]** Further examples of machine-readable storage media, machine-readable media, or computer-readable (storage) media include recordable type media such as volatile and non-volatile memory devices 810, floppy and other removable disks, hard disk drives, optical disks (e.g., Compact Disk Read-Only Memory (CD ROMS), Digital Versatile Disks, (DVDs)), and transmission type media such as digital and analog communication links.

**[00116]** The network adapter 812 enables the computer system 800 to mediate data in a network 814 with an entity that is external to the computer device 800, through any known and/or convenient communications protocol supported by the computer system 800 and the external entity. The network adapter 812 can include one or more of a network adaptor card, a wireless network interface card, a router, an access point, a wireless router, a switch, a multilayer switch, a protocol converter, a gateway, a bridge, bridge router, a hub, a digital media receiver, and/or a repeater.

**[00117]** The network adapter 812 can include a firewall which can, in some embodiments, govern and/or manage permission to access/proxy data in a computer network, and track varying levels of trust between different machines and/or applications. The firewall can be any number of modules having any combination of hardware and/or software components able to enforce a predetermined set of access rights between a particular set of machines and applications, machines and machines, and/or applications and applications, for example, to regulate the flow of traffic and resource sharing between these varying entities. The firewall may additionally manage and/or have access to an access control list which details permissions including for example, the access and operation rights of an object by an individual, a machine, and/or an application, and the circumstances under which the permission rights stand.

**[00118]** Other network security functions can be performed or included in the functions of the firewall, can include intrusion-prevention, intrusion detection, next-generation firewall, personal firewall, etc.

**[00119]** As indicated above, the techniques introduced here implemented by, for example, programmable circuitry (e.g., one or more microprocessors), programmed with



software and/or firmware, entirely in special-purpose hardwired (i.e., non-programmable) circuitry, or in a combination or such forms. Special-purpose circuitry can be in the form of, for example, one or more application-specific integrated circuits (ASICs), programmable logic devices (PLDs), field-programmable gate arrays (FPGAs), etc.

5   **[00120]**   Note that any and all of the embodiments described above can be combined with each other, except to the extent that it may be stated otherwise above or to the extent that any such embodiments might be mutually exclusive in function and/or structure.

10   **[00121]**   Although the present invention has been described with reference to specific exemplary embodiments, it will be recognized that the invention is not limited to the embodiments described, but can be practiced with modification and alteration within the spirit and scope of the appended claims. Accordingly, the specification and drawings are to be regarded in an illustrative sense rather than a restrictive sense.



CLAIMS

What is claimed is:

1. A system for facilitating outsourcing of projects to verified freelance talent, the system comprising:

5 a first platform configured to receive, from a user device of a customer via a computer network, a project specification for a project to be outsourced by the customer; and

a second platform communicatively coupled to the first web-based platform and accessible to a plurality of project managers who compete for selection by the customer to manage the project, the second platform configured to:

10 receive the project specification from the first platform,  
post the project specification for review by the plurality of project managers,  
receive, via the computer network, a plurality of proposals for completing the project from the plurality of project managers, where each proposal is  
15 submitted to the second platform by a different project manager, and  
communicate the plurality of proposals to the first platform;

the first platform being further configured to, upon receiving the plurality of proposals:

20 post the plurality of proposals for review by the customer,  
generate a user interface to enable the customer to select a proposal of the plurality of proposals, and

in response to a user input indicative that the customer has selected the proposal,

automatically notify a project manager associated with the proposal of the selection by the customer; and

25 the second platform being further configured to, upon the customer selecting the proposal:

30 provide an interface by which the project manager can communicate with a freelance worker who is responsible for completing a milestone associated with the project under the supervision of the project manager;

where the customer accesses the first web-based platform using a network-accessible user device, and where each of the plurality of project managers accesses the second web-based platform using a different one of a plurality of network-accessible user devices.

35 2. The system of claim 1, wherein each of the plurality of project managers has been verified by an administrator.



3. The system of claim 1, wherein the first web-based platform is further configured to:  
generate an invoice for money to be paid to the project manager based on  
completion of the milestone specified in the proposal;  
5 receive, from the customer, the money; and  
place at least some of the money in an escrow account that is managed by the  
administrator.
- 10 4. The system of claim 3, wherein the first web-based platform is further configured to:  
transfer at least some of the money to the project manager, the freelance worker, or  
both.
- 15 5. The system of claim 1, wherein the project specification includes a project name, a  
project description, an estimated budget, an estimated time for completion, an estimated  
start date, or a combination thereof.
- 20 6. The system of claim 3, wherein the first platform is further configured to:  
prompt the customer to rate the project manager upon completion of the milestone;  
and  
receive user input representing a rating from the customer.
- 25 7. The system of claim 3, wherein the second platform is further configured to:  
prompt the project manager to rate the freelance worker upon completion of the  
milestone; and  
receive user input representing a rating from the project manager.
- 30 8. The system of claim 1, wherein the first platform and the second platform enable the  
customer and the project manager to communicate with one another during execution of the  
project by providing a discussion forum accessible via the first platform and the second  
platform.
- 35 9. The system of claim 1, wherein the second platform is further configured to enable  
the project manager to submit a progress report that specifies progress made on the  
milestone specified in the proposal, and wherein the first platform is further configured to  
post the progress report for review by the customer.



10. The system of claim 3, wherein the milestone is one of a plurality of milestones, and wherein the first platform is configured to release a portion of the money from the escrow account each time the customer acknowledges one of the plurality of milestones has been completed.

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11. The system of claim 1, wherein the plurality of project managers includes some or all project managers registered for the second platform, and wherein each of the plurality of project managers has a characteristic that matches a criterion specified by an administrator or an algorithm developed by the system.

10

12. The system of claim 11, wherein the criterion is a desired skill, experience level, geographical location, geography worked, language spoken, size of previous customer worked for, industry, previous team role, rating, or a combination thereof.

15

13. The system of claim 1, wherein the customer is able to choose one of a plurality of partners who interacts with the project manager, the freelance worker, or both on behalf of the customer.

20

14. The system of claim 1, wherein the freelance worker is one of a plurality of freelance workers who complete one or more milestones associated with the project under the supervision of the project manager.

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15. A system comprising:

a first network-connected computing platform;

a data storage facility; and

a second network-connected computing platform configured to:

receive first user inputs that specify details for a project to be outsourced by a customer;

generate a data record for storage in the data storage facility that includes the details of the project;

30

transmit, via a computer network, the details to the first network-connected computer platform for display to a plurality of project managers who compete with one another to be selected by the customer to manage the project;

35

receive, via the computer network, a plurality of proposals for completing the project from the first network-connected platform, for review by the



customer, each of the proposals submitted by a different one of the  
project managers via the first network-connected platform;  
enable the customer to access the plurality of proposals via the second  
network-connected computing platform;  
5 receive a second user input indicative of a selection of a proposal, of the  
plurality of proposals, by the customer; and  
in response to the second user input, cause transmission of a message to  
notify a project manager associated with the proposal of the selection  
by the customer.

10

16. The system of claim 15, wherein said notifying includes performing at least one of:  
transmitting an email message to an email address supplied by the project manager  
during a registration process,  
transmitting a text message to a phone number supplied by the project manager  
15 during the registration process, or  
causing a notification to be presented by a mobile application executed by a user  
device associated with the project manager.

15

20

17. The system of claim 15, where, upon the second network-connected computer  
platform receiving a second user input indicative of a selection of a proposal, the first  
network-connected computer platform is configured to:

25

enable the project manager associated with the proposal to access a user  
interface through which the project manager can select at least one  
freelance worker who is responsible for completing the project under  
the supervision of the project manager; and  
enable the project manager and the at least one freelance worker to  
collaborate on the project via the user interface.

30

18. The system of claim 17, wherein the first network-connected computer platform, the  
second network-connected computer platform, or both support a plurality of tools that can be  
used by the project manager and the at least one freelance worker to execute the project  
and by the customer to review progress made on the project.

35

19. The system of claim 15, wherein the system is managed by an administrator, and  
wherein the second network-connected computing platform is accessible via a partner  
platform that allows customers of a partner of the administrator to access the second  
network-connected computing platform.



20. A method comprising:

receiving via a network, at a computer system connected to the network, first input  
indicative of user inputs, from a customer, that specify details for a project to  
be outsourced by a customer;

generating, by the computer system, a data record that includes the details of the  
project;

causing, by the computer system, the description to be posted to a first network-  
accessible interface for review by a plurality of project managers who  
compete with one another to be selected by the customer to manage the  
project;

receiving via the network, at the computer system, second input indicative of user  
inputs, from a plurality of project managers, that each specify details of a  
proposal for completing the project;

causing, by the computer system, each proposal to be posted to a second network-  
accessible interface for review by the customer;

receiving via the network, at the computer system, third input indicative of user input,  
from the customer, that specifies a selection of a particular proposal;

notifying, by the computer system, a project manager associated with the particular  
proposal of the selection by the customer;

enabling, by the computer system, the project manager to select at least one  
freelance worker via the first network-accessible interface, where the at least  
one freelance worker is responsible for completing a milestone associated  
with the project under the supervision of the project manager; and

enabling, by the computer system, the project manager and the at least one  
freelance worker to collaborate on the project via the first network-accessible  
interface.

21. The method of claim 20, wherein the first network-accessible interface is not

accessible by the customer and the second network-accessible interface is not accessible by  
the project manager or the at least one freelance worker.

22. The method of claim 20, wherein the first and second network-accessible interfaces  
are portals.

23. The method of claim 20, wherein the first network-accessible interface is accessible  
by the customer via a first mobile application executed by a user device associated with the



customer, and wherein the second network-accessible interface is accessible by the project manager via a second mobile application executed by a user device associated with the project manager.

- 5     24.     The method of claim 20, further comprising:  
determining whether any freelancers previously indicated an interest in the project or  
the particular proposal submitted by the project manager; and  
in response to determining a freelancer did indicate an interest in the project or the  
particular proposal posted by the project manager,  
10     retrieving details regarding the freelancer from a storage; and  
automatically transmitting the details to the project manager.

25.     The method of claim 20, wherein the computer system is managed by an  
administrator.

15

26.     The method of claim 25, further comprising:  
generating, by the computer system, a third network-accessible interface that is  
accessible by customers of a partner of the administrator; and  
enabling, by the computer system, the partner's customers to access the second  
20     network-accessible interface via the third-network accessible interface.



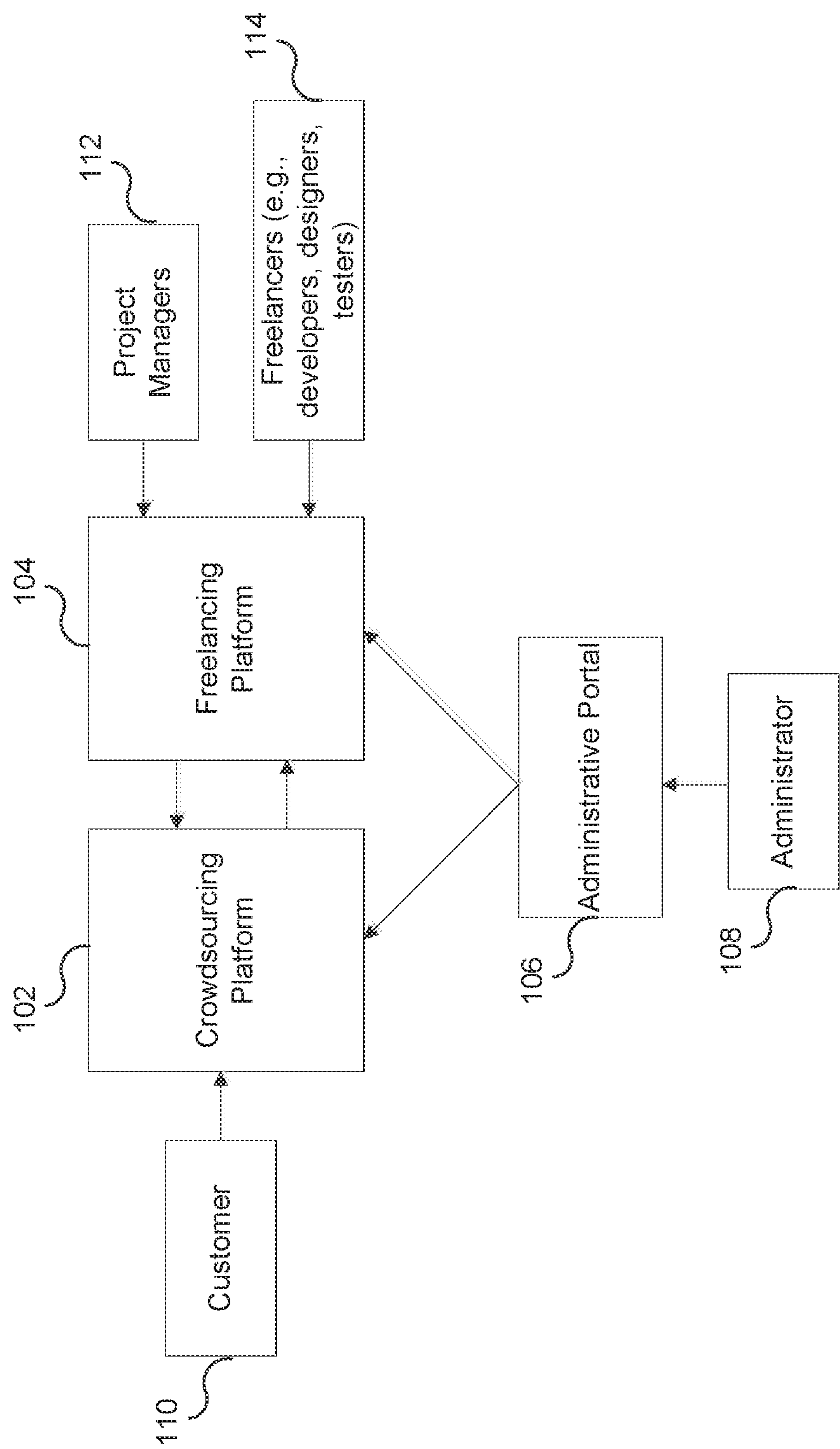


FIG. 1A



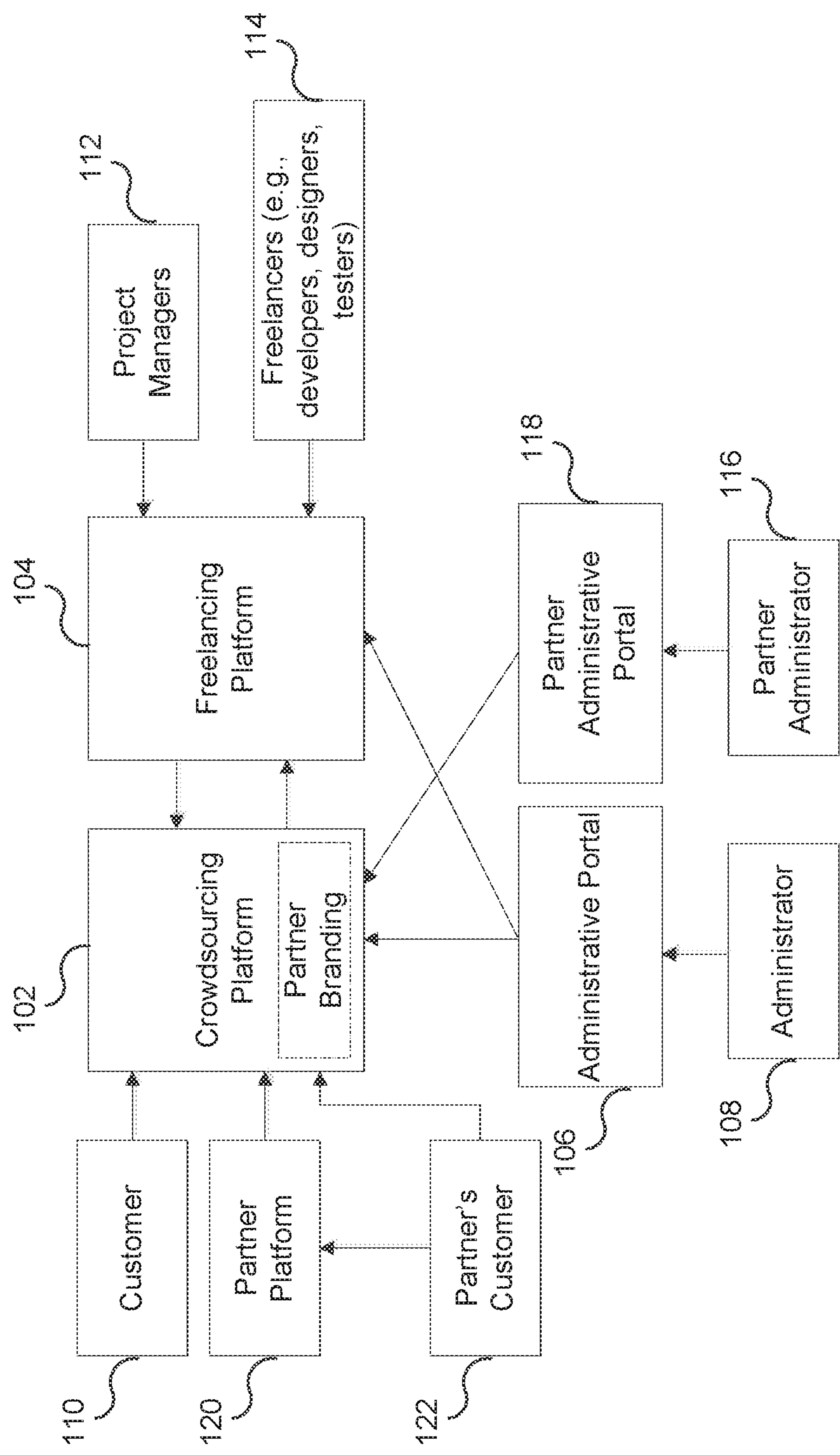
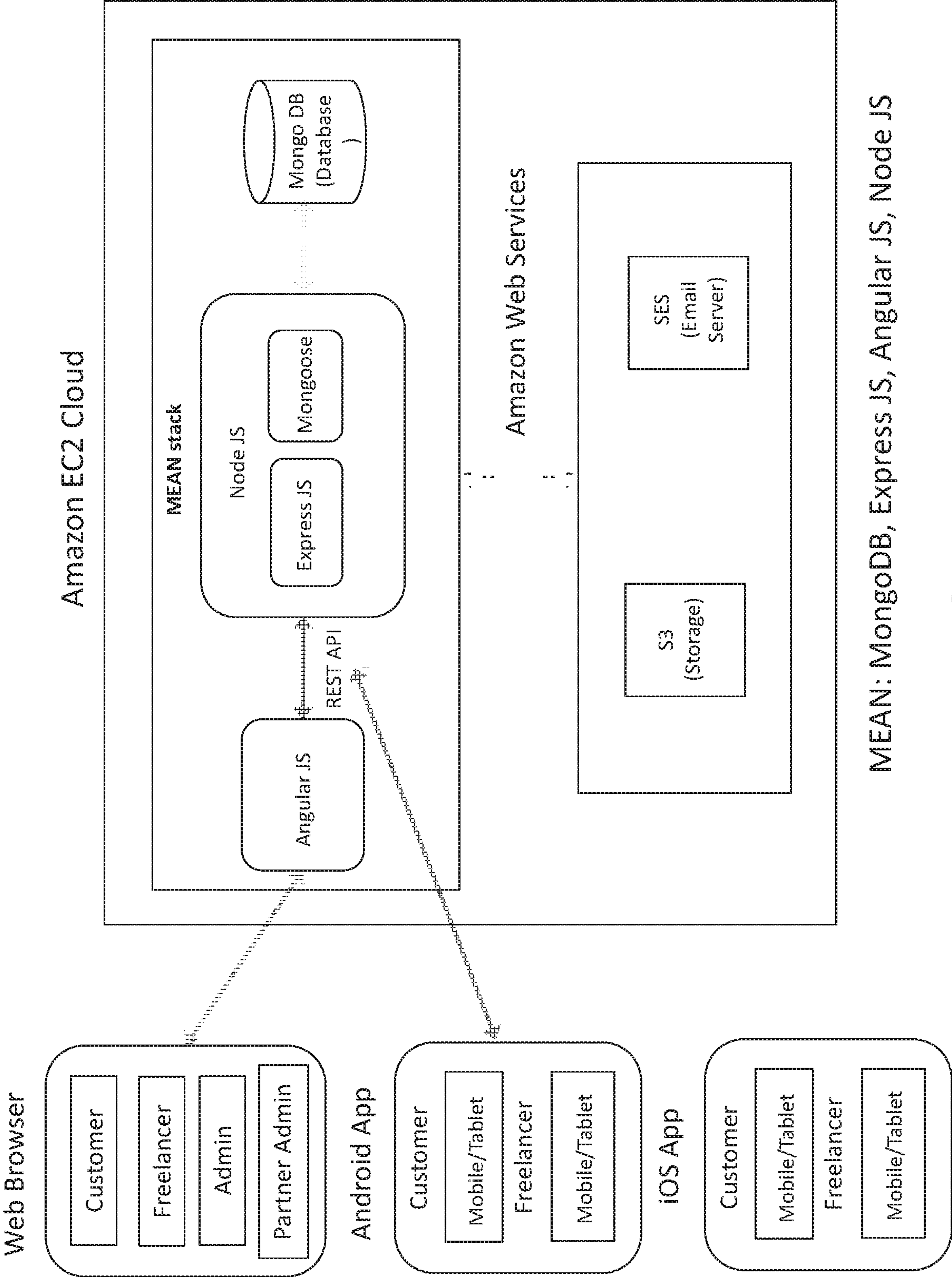


FIG. 1B





MEAN: MongoDB, Express JS, Angular JS, Node JS

FIG. 2



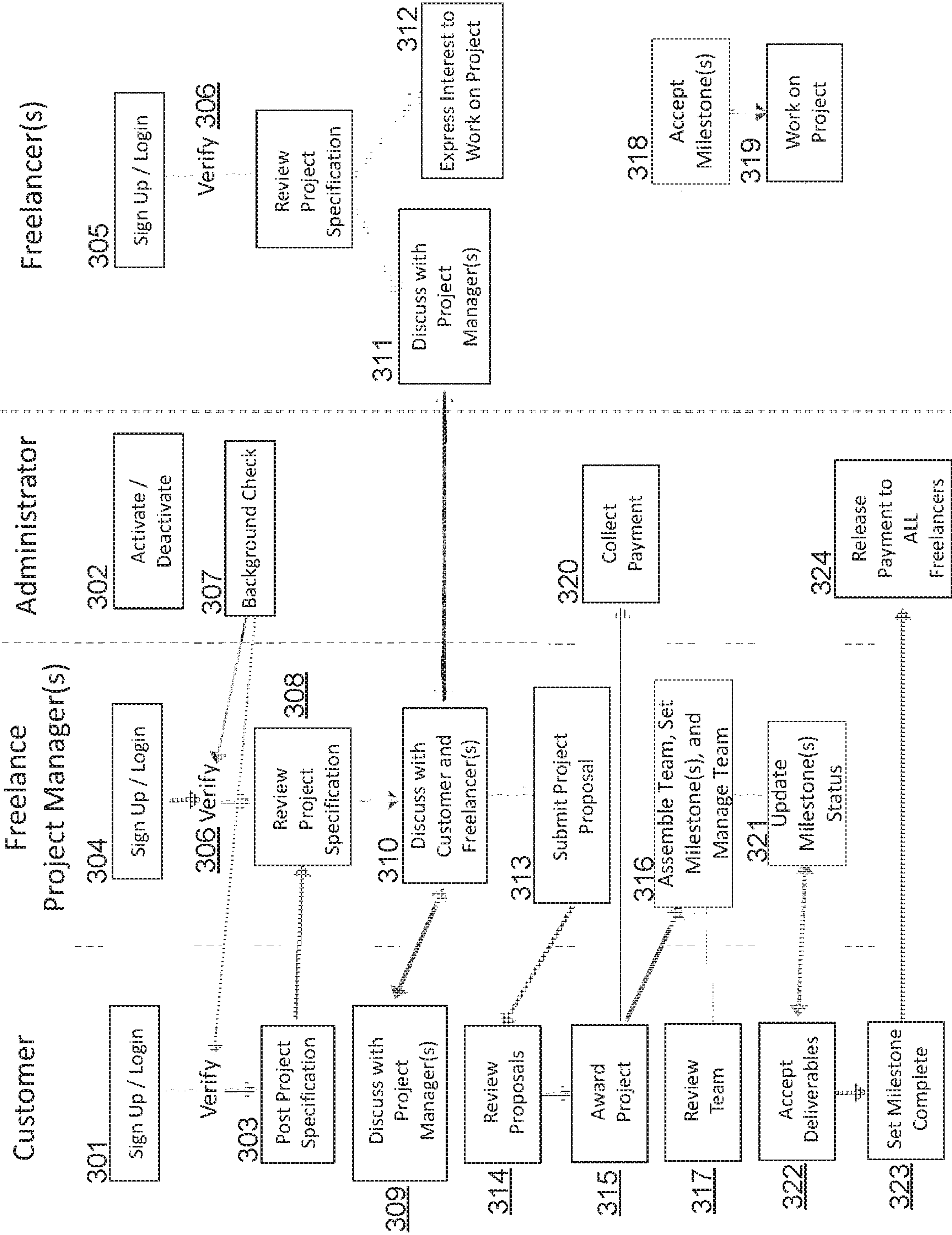


FIG. 3A



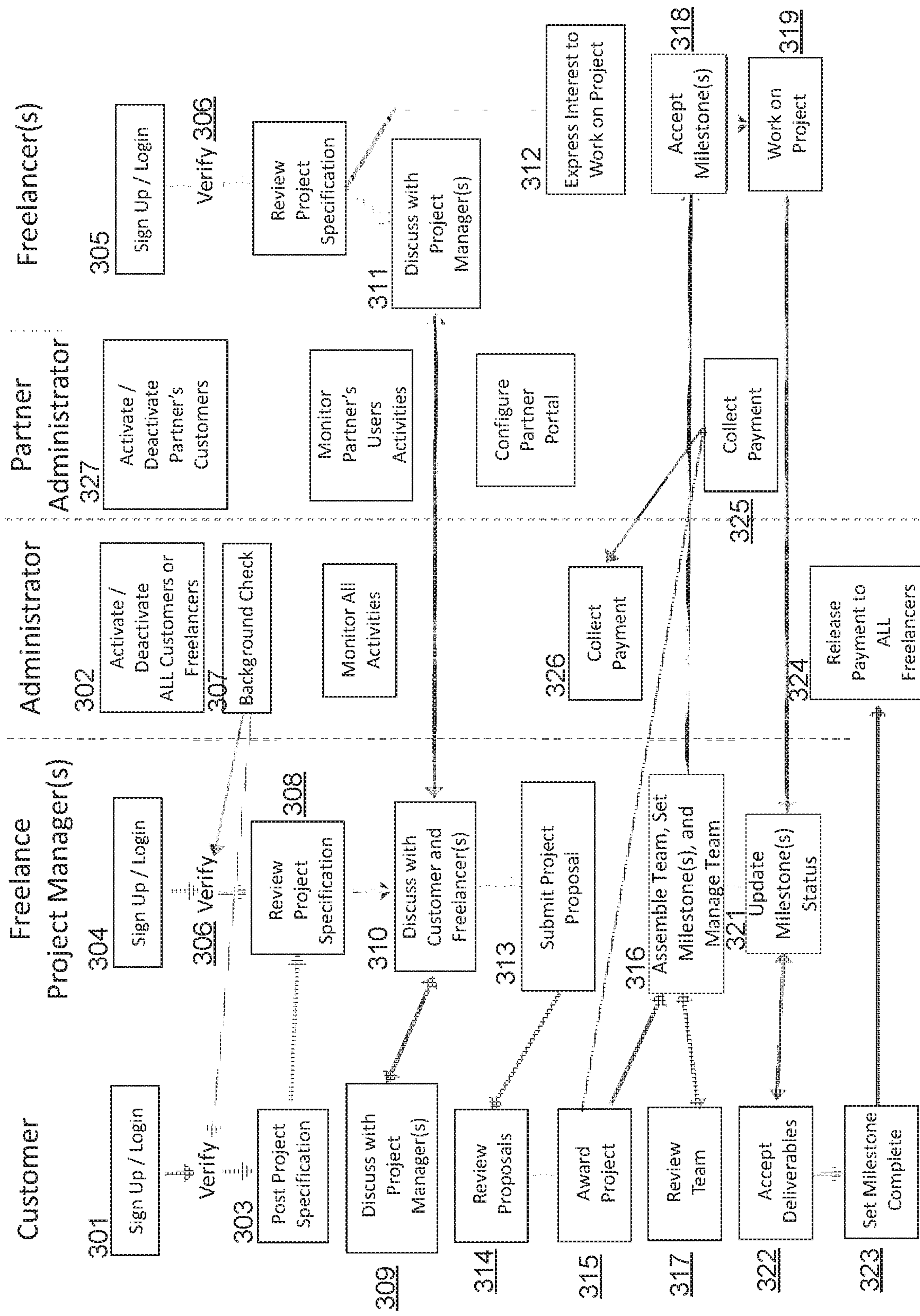
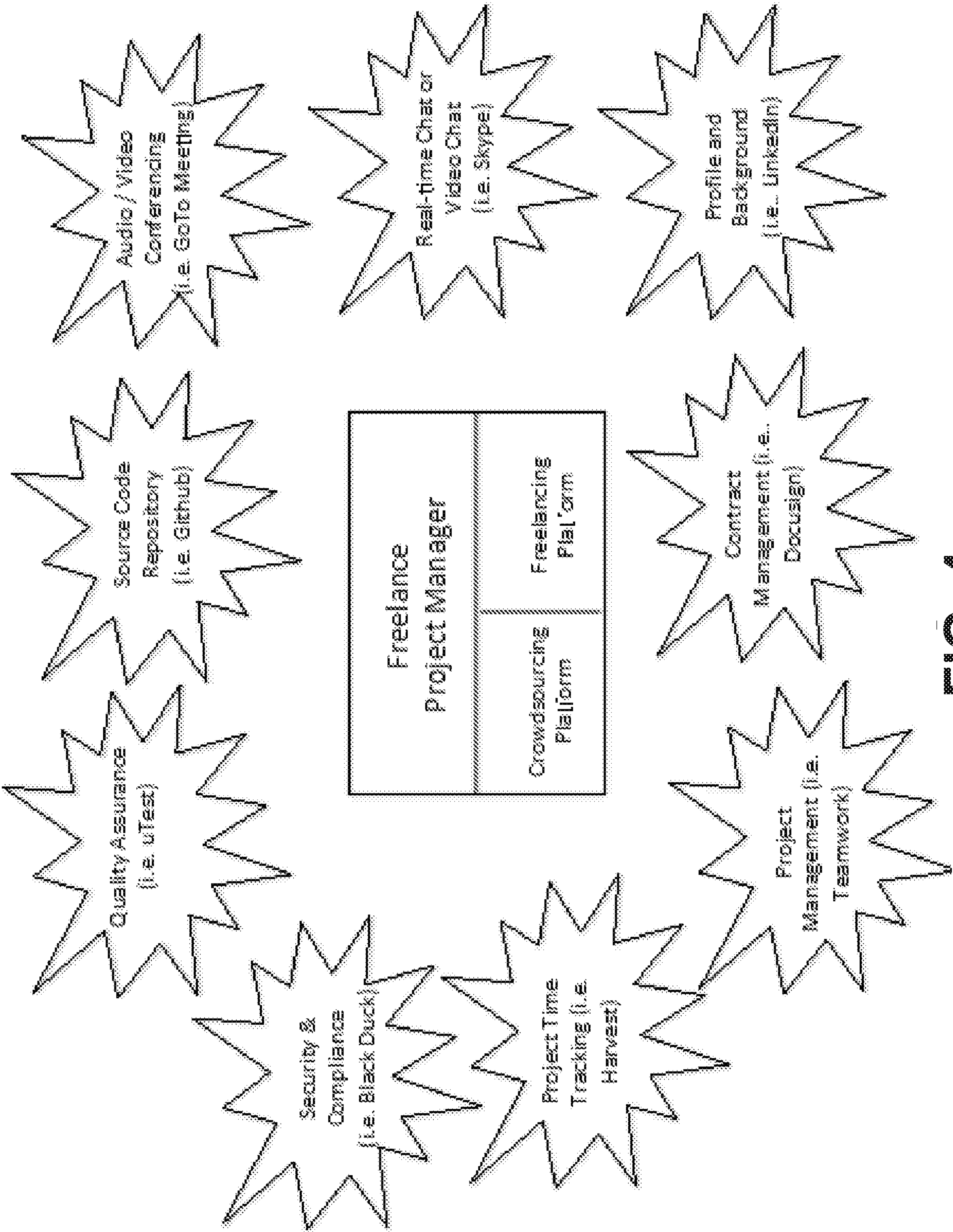


FIG. 3B





**FIG. 4**



Post Project

Project Title

Project Description

Estimated Time in Weeks

Estimated Project Budget

Expected Start Date

Budget Status

File Attachments:

Choose Files

Upload Files

Save

Cancel

Submit

FIG. 5A

Customer Sign Up

First Name

Last Name

Work Email

Password

Sign Up

FIG. 5B



Profile Page

First Name

Last Name

Email

Phone Number

Job Title

Company Name

Company Industry▼

Company Size▼

Country▼

Save

Change Password

Old Password

New Password

New Password

Change Password

Login

Email

Password

Sign In

(Forgot your password)

Account Settings

Email Notification

Mobile Notification

Save Settings

Forgot Password

Email Address

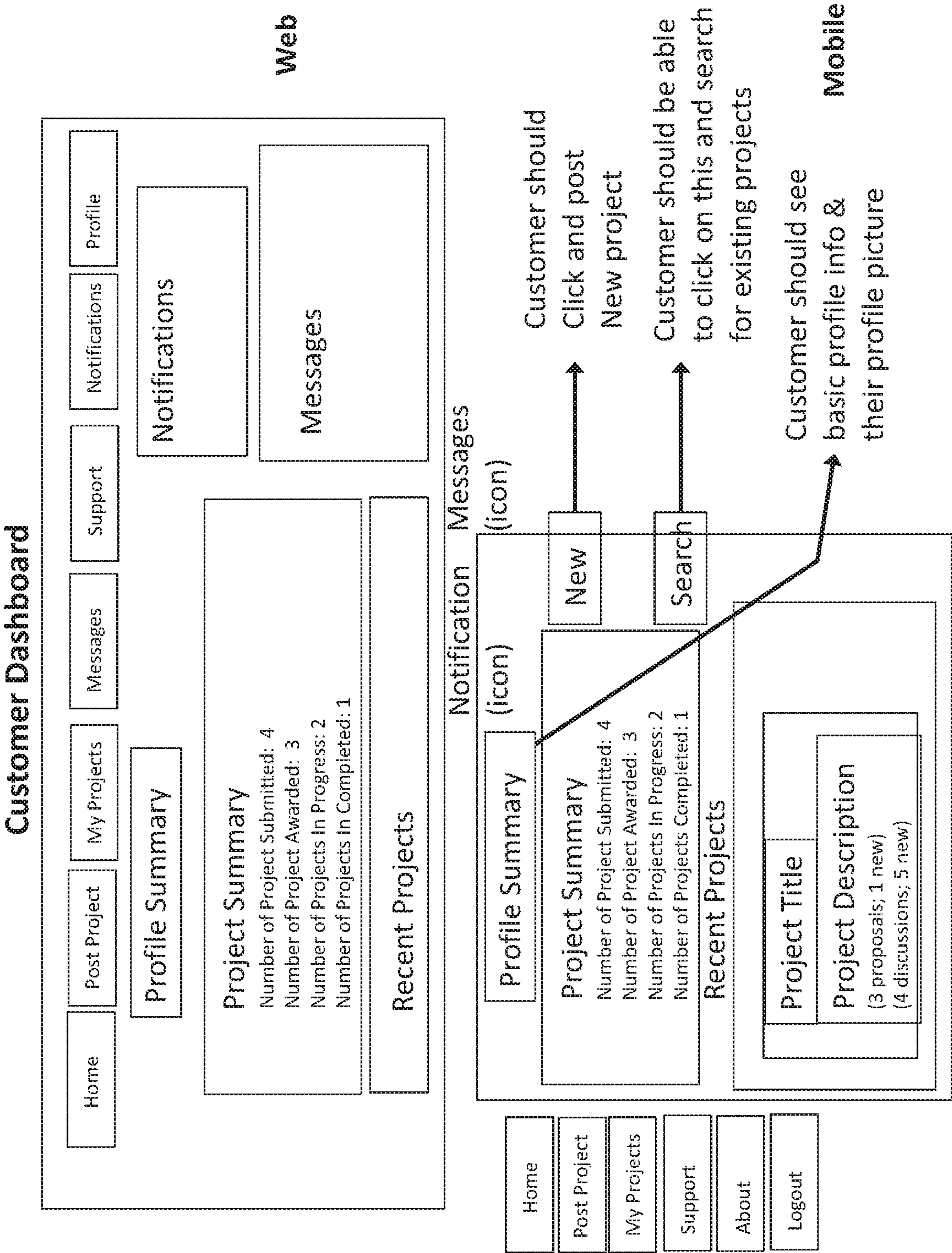
Send Instructions

FIG. 5C

FIG. 5D

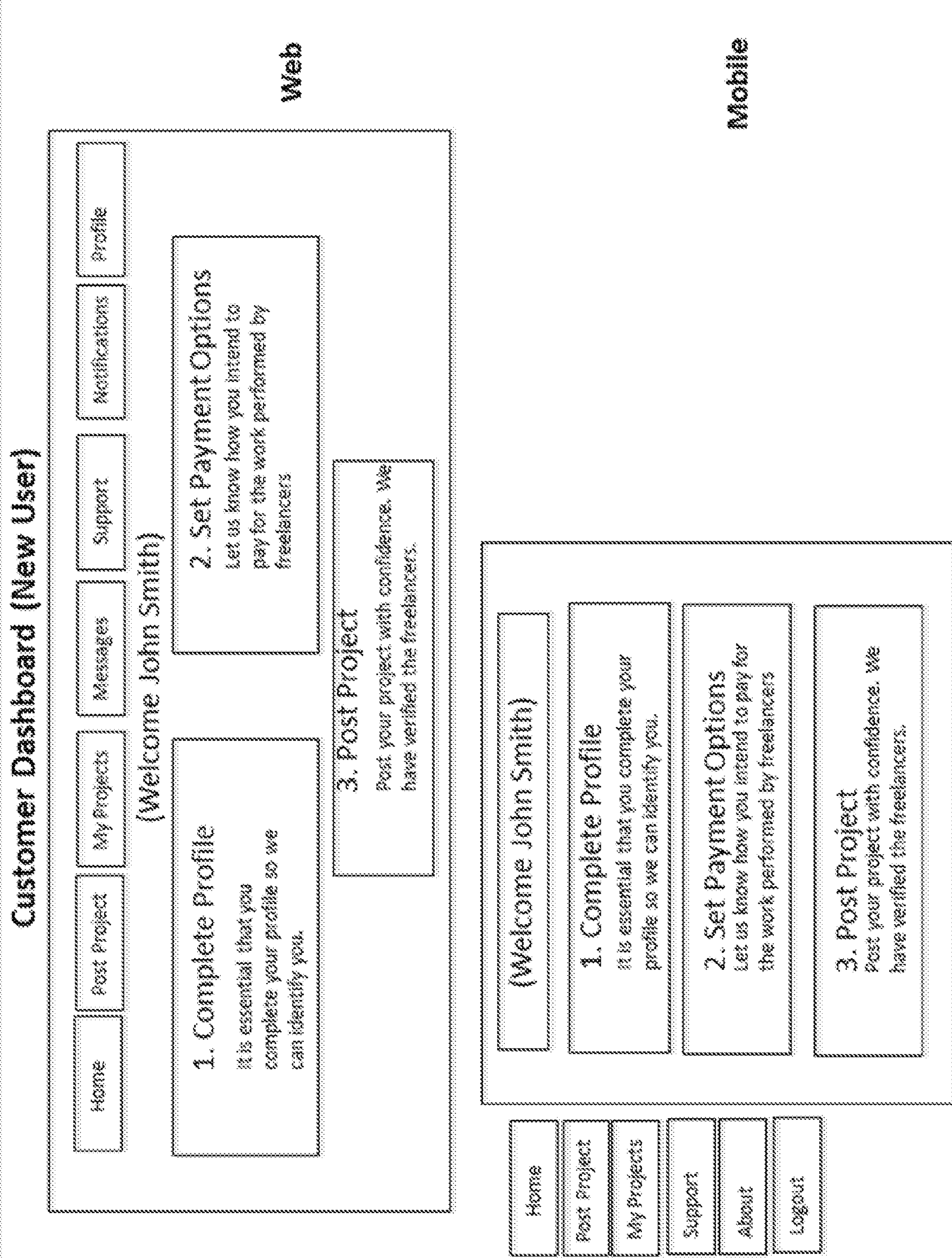
FIG. 5E





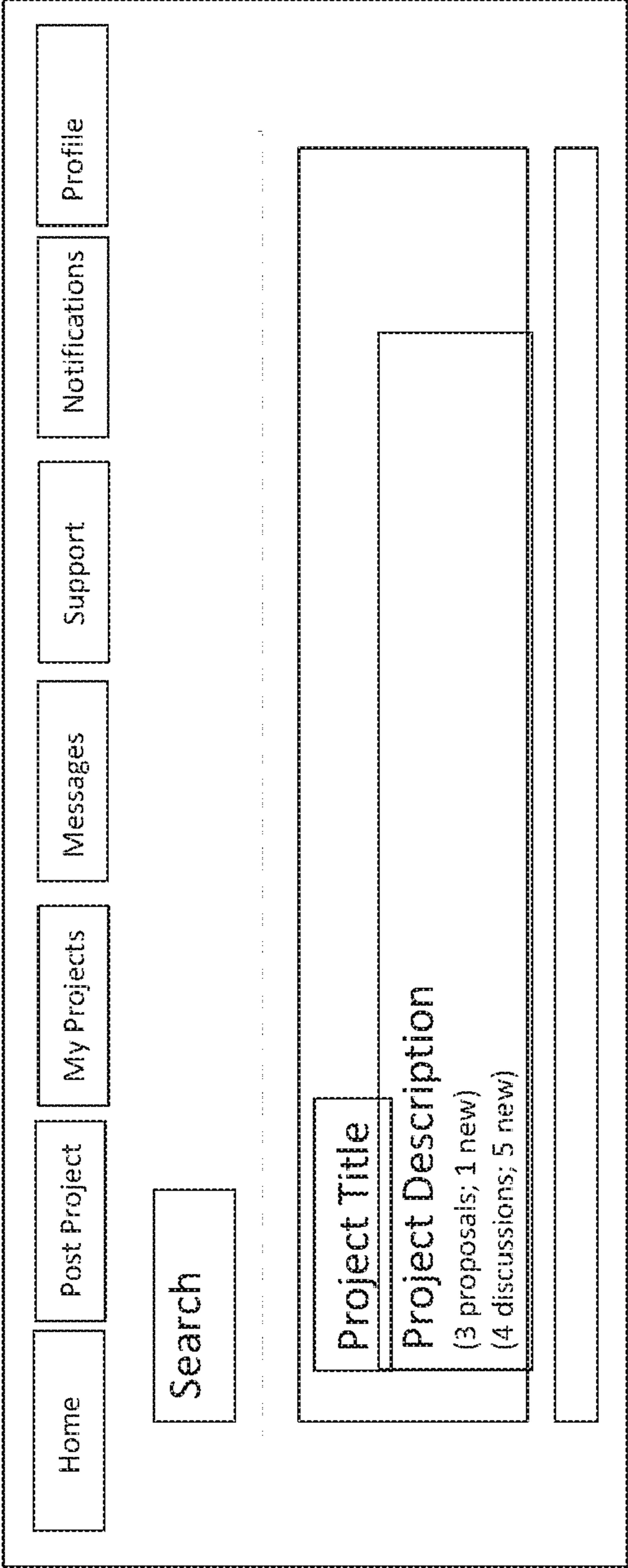
**FIG. 5F**



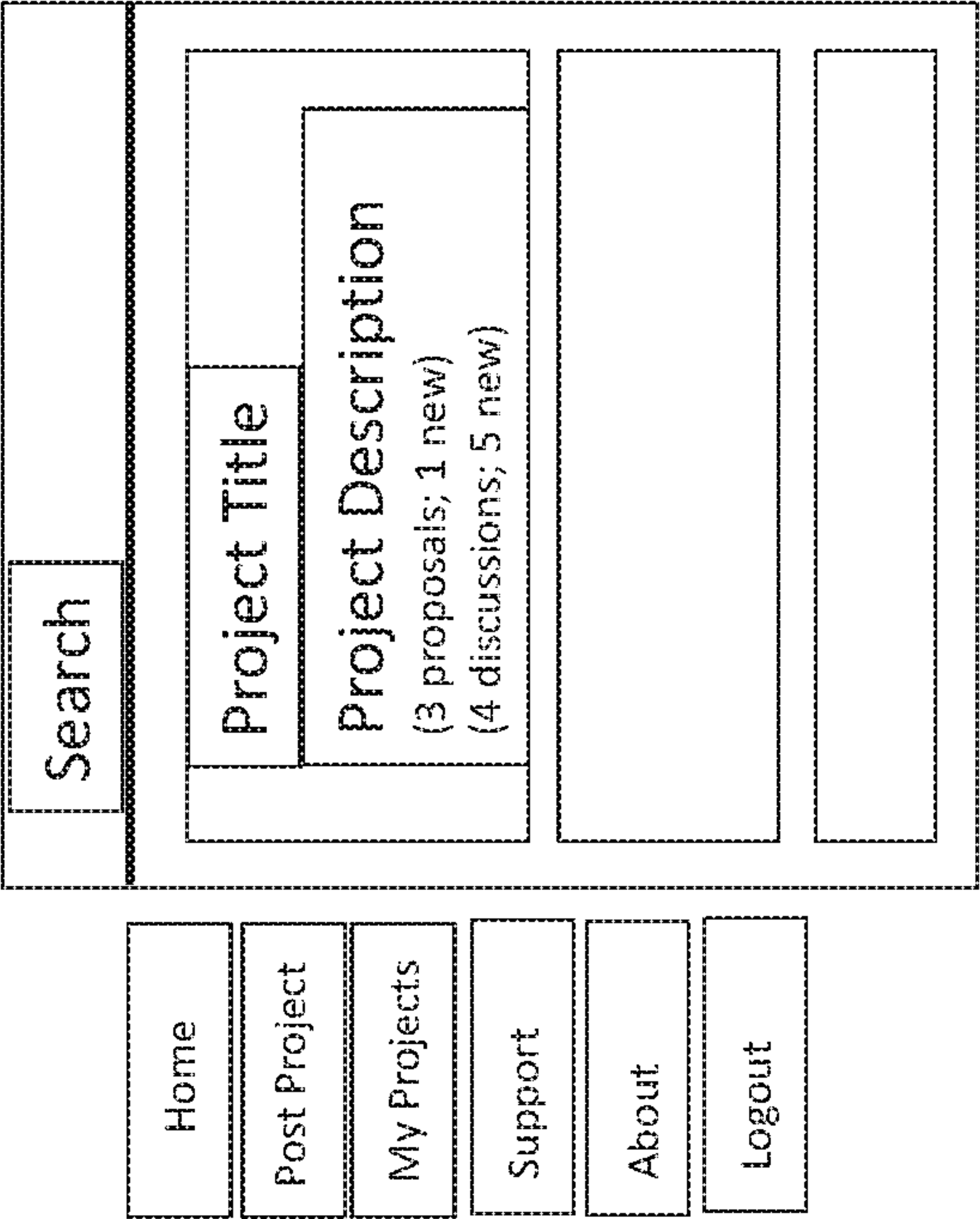




Project List



Web



Mobile

FIG. 5H



Project Details – Overview Page

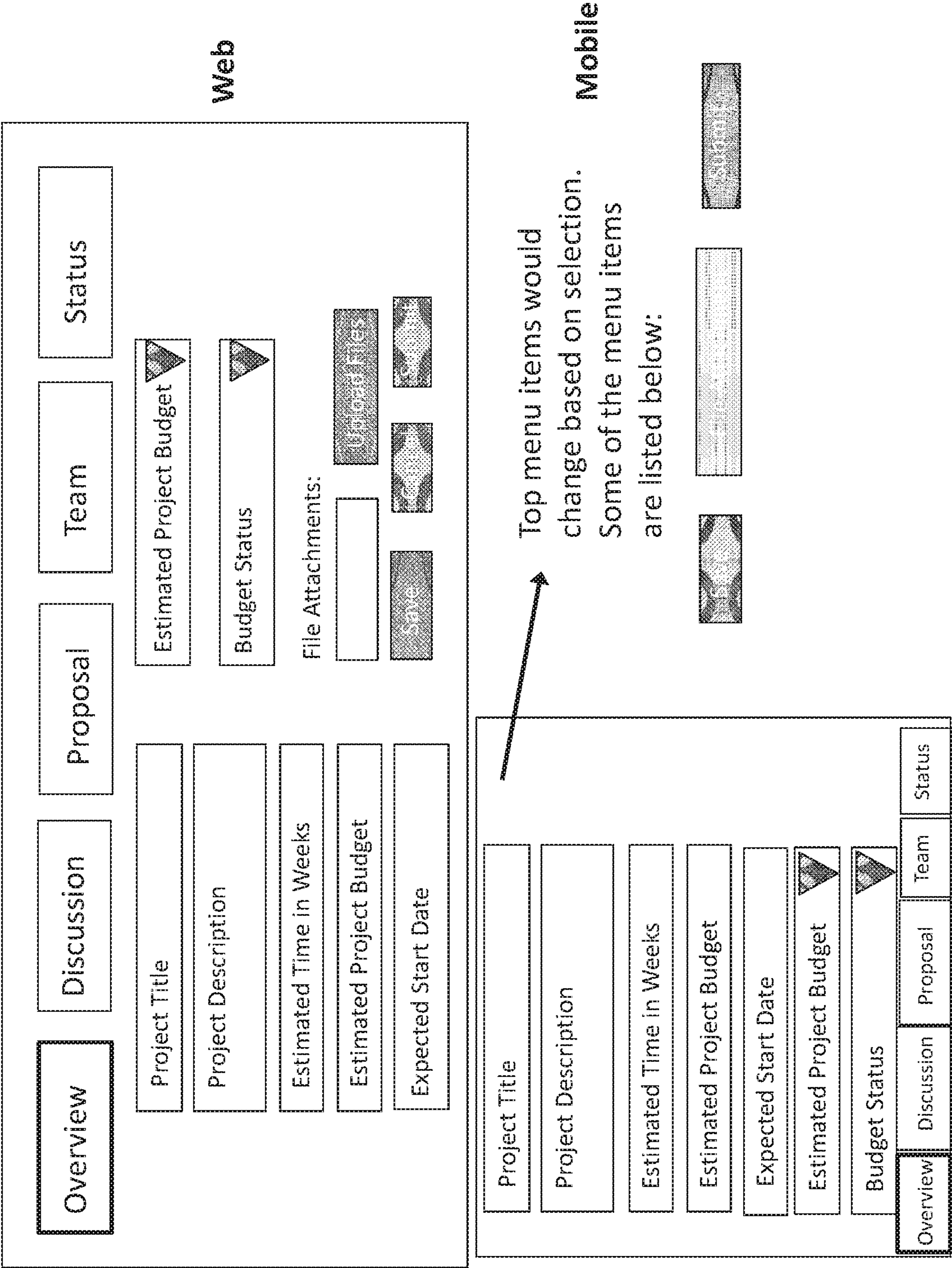


FIG. 51



Project Details – Discussion Page

Overview

Discussion

Proposal

Team

Status

Sam

Test Comments

Edit

Delete

John

Reply to Test comments

Web

Overview

Discussion

Proposal

Team

Status

Sam

Test Comments

Edit

Delete

John

Reply to Test comments

Mobile

FIG. 5J



Project Details – Proposal Page

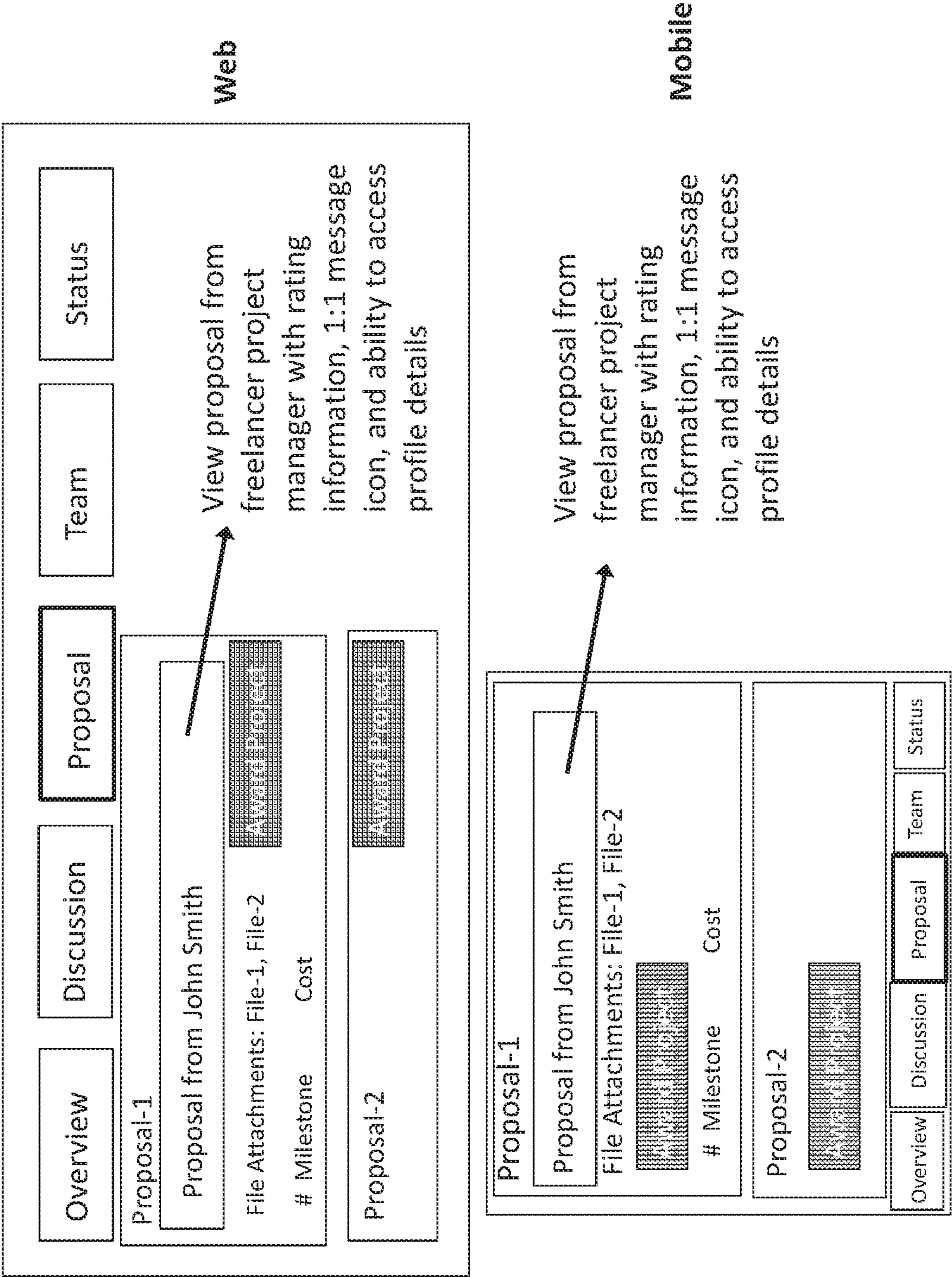


FIG. 5K



Project Details – Team Page

Overview

Discussion

Proposal

Team

Status

1 Sam Adams Project Manager (Profile link) (1:1 Message) (Rating) (Agreement) (History)

1 Sandeep Vel Web Developer (Profile link) (1:1 Message) (Rating) (Agreement) (History)

2 Chris Li iOS Developer (Profile link) (1:1 Message) (Rating) (Agreement) (History)

Web

View agreement documents signed by freelancers

Sam Adams Project Manager (Profile link)

Sandeep Vel Web Developer (Profile link)

Chris Li iOS Developer (Profile link)

Overview

Discussion

Proposal

Team

Status

(1:1 Message) (Rating) (Agreement) (History)

(1:1 Message) (Rating) (Agreement) (History)

(1:1 Message) (Rating) (Agreement) (History)

Mobile

View history of other projects worked, and with whom they worked, previous customer rating and feedback. Once project is complete, customer should be able to rate the freelancer and write comments

FIG. 5L



Project Details – Status Page

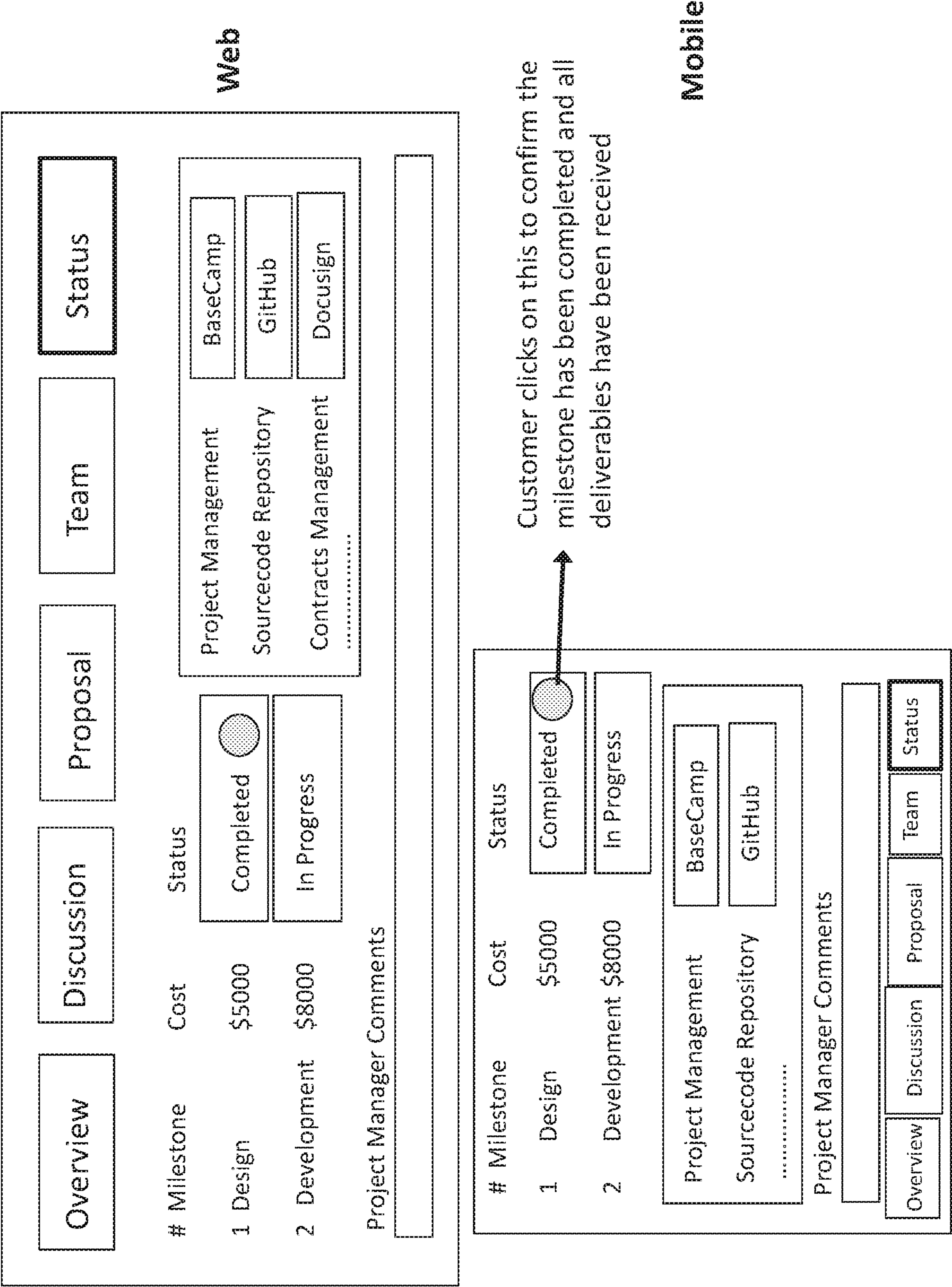


FIG. 5M



Email Notifications – Customer

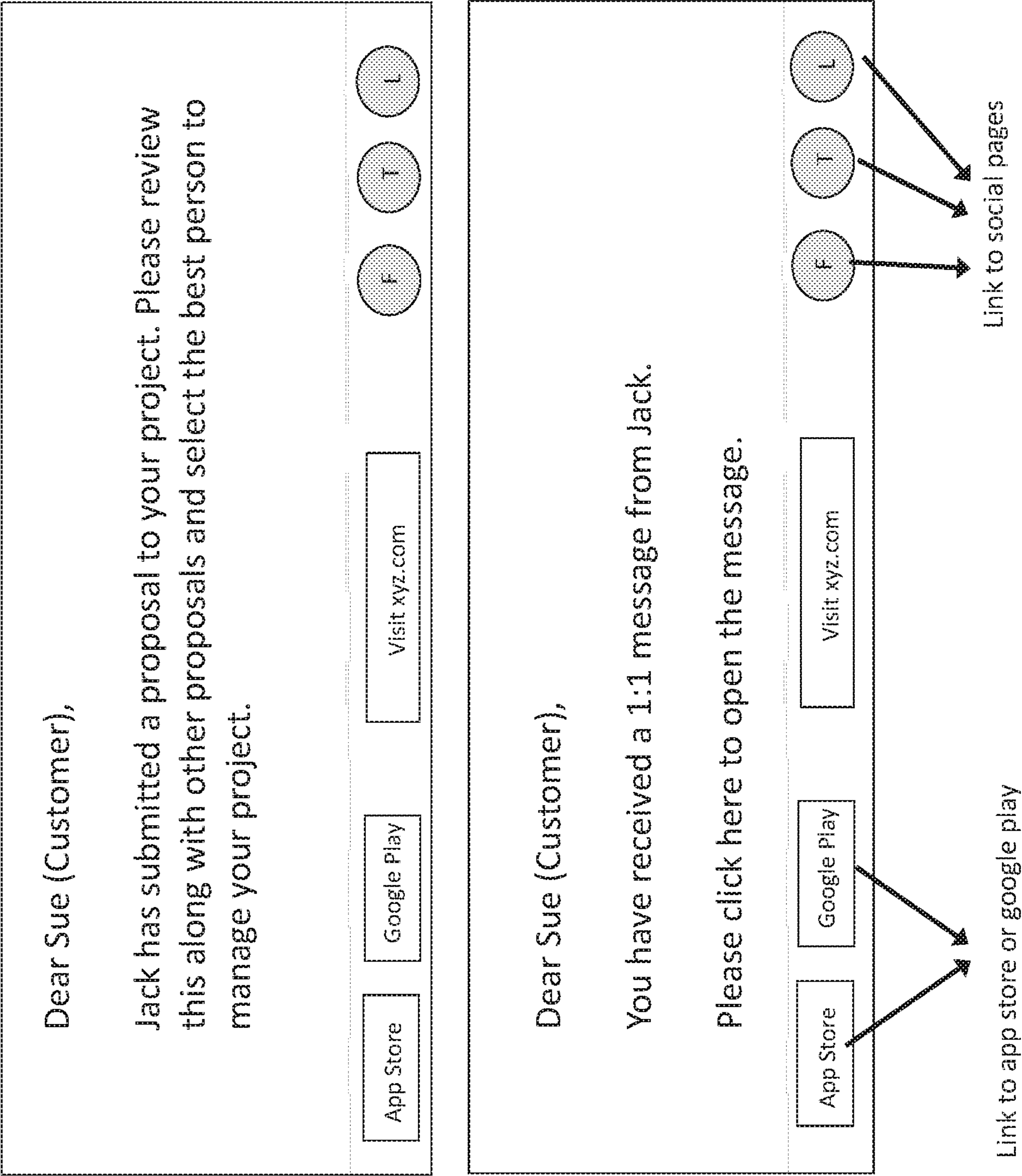


FIG. 5N



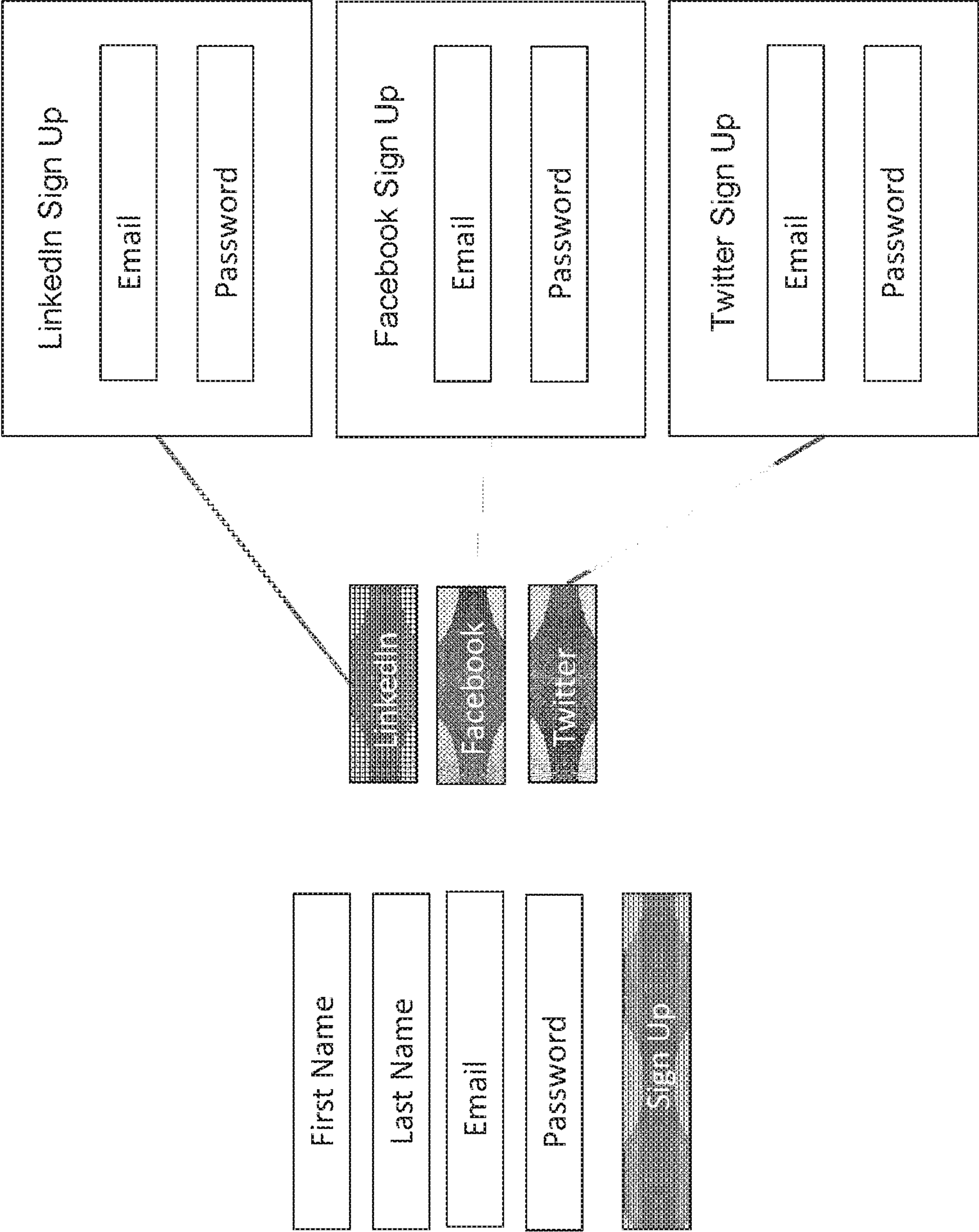


FIG. 6A

FIG. 6B



Profile Page

First Name

Last Name

Email

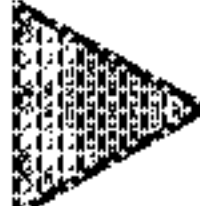
Phone Number

Geographies Worked (Multiple)

Languages Spoken (Multiple)

Size of Company worked (Multiple)

Industries Worked (Multiple)

Role 

Skills (Multiple)

LinkedIn (attach)

Country 



Change Password Page

Old Password

New Password

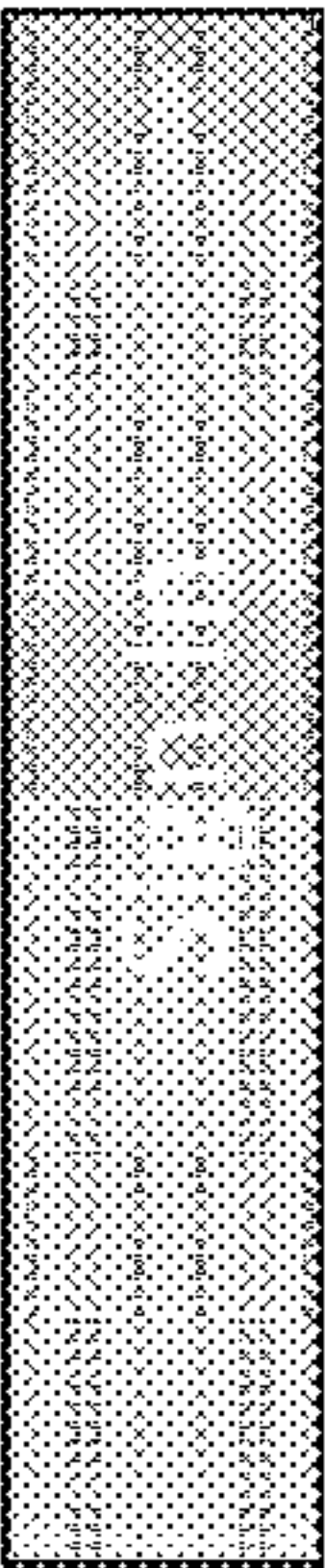
New Password



Login

Email

Password

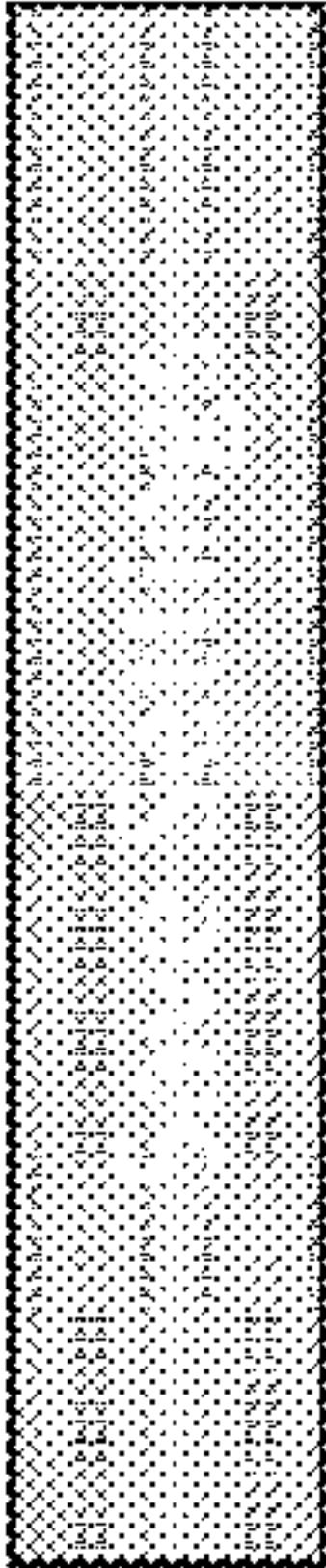


(Forgot your password)

Account Settings

Email Notification

Mobile Notification



X

X

Forgot Password

Email Address

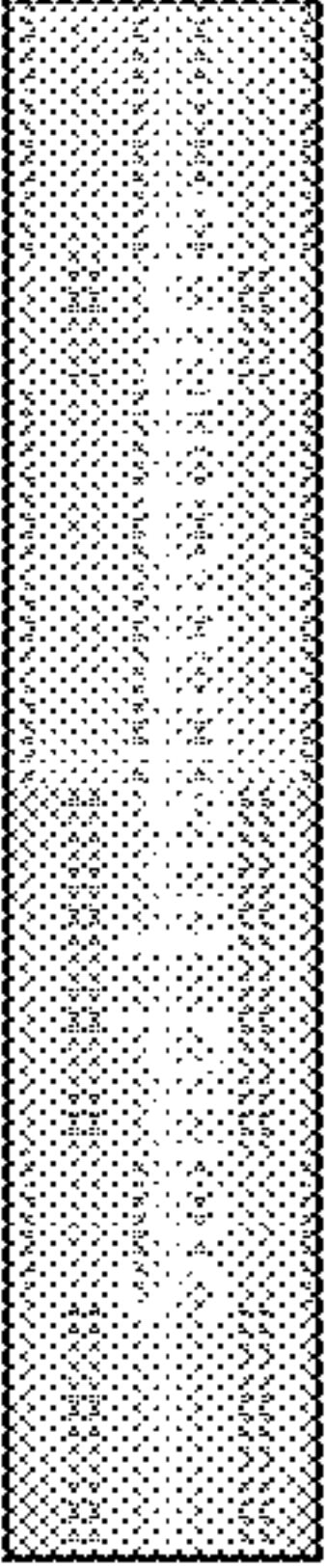


FIG. 6C

FIG. 6D



Freelancer PM Dashboard

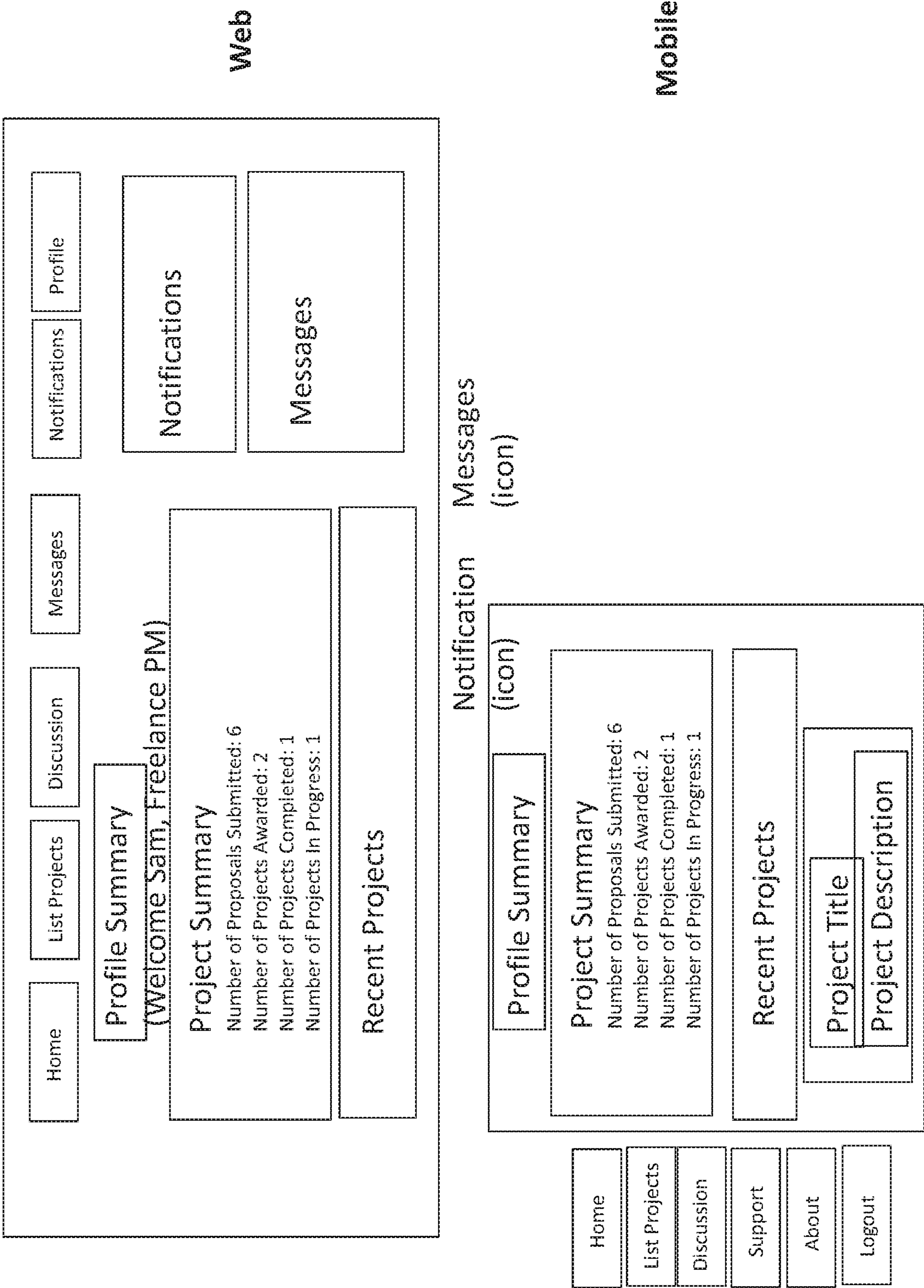


FIG. 6E



Freelance PM Dashboard (New User)

Home

Post Project

My Projects

Messages

Support

Notifications

Profile

(Welcome John Smith)

1. Complete Profile

It is essential that you complete your profile so we can identify you.

2. Sign Agreement

Please complete the agreement page

3. Attach (or Email) Documents

Attach legal documents so we can verify you

Web

Home

Post Project

My Projects

Support

About

Logout

(Welcome John Smith)

1. Complete Profile

It is essential that you complete your profile so we can identify you.

2. Sign Agreement

Please complete the agreement page.

3. Attach (or Email) Documents

Attach legal documents so we can verify you

Mobile

FIG. 6F



Project List

Project Name

Status

PM Name

Search

| Title              | Description                         | Status        |
|--------------------|-------------------------------------|---------------|
| Build mobile App   | Create a mobile game app with ..    | Submitted     |
| Platform migration | Migrate the platform from AWS to... | Not Submitted |
| Soln. Provisioning | Provision customer soln.            | Submitted     |

Web

Status

Project Name

PM Name

Search

| Title              | Description                           |
|--------------------|---------------------------------------|
| Build mobile app   | Create a mobile game app with .. >    |
| Platform migration | Migrate the platform from AWS to... > |

Mobile

FIG. 6G



Project Details – Overview Page

Overview

Discussion

Proposal

Team

Status

Project Title

Project Description

Estimated Time in Weeks

Estimated Project Budget

Expected Start Date

Estimated Project Budget

Budget Status

File Attachments:  
File-1.doc  
File-2.pdf

Web

Project Title

Project Description

Estimated Time in Weeks

Estimated Project Budget

Expected Start Date

Estimated Project Budget

Budget Status

File Attachments: File-1.doc, File-2.pdf

Overview

Discussion

Proposal

Team

Status

Mobile

FIG. 6H



Project Details – Discussion Page

Overview

Discussion

Proposal

Team

Status

Customer

Freelancer

John

Test Comments

Client

Reply to Test comments

Discussion

Proposal

Status

Web

Customer

Freelancer

John

Test Comments

Client

Reply to Test comments

Discussion

Proposal

Status

Mobile

FIG. 6I



Project Details – Proposal Page

Overview

Discussion

Proposal

Team

Status

Proposal Summary

File Attachments:

# Milestone

Cost

1 Design

\$5000

2 Development

\$8000

3 Testing

\$2000

Add Milestone

Submit Proposal

Web

Proposal Summary

File Attachments:

Upload Files

# Milestone

Cost

1 Design

\$5000

2 Development

\$8000

Overview

Discussion

Proposal

Team

Status

Mobile

FIG. 6J



Project Details – Team Page

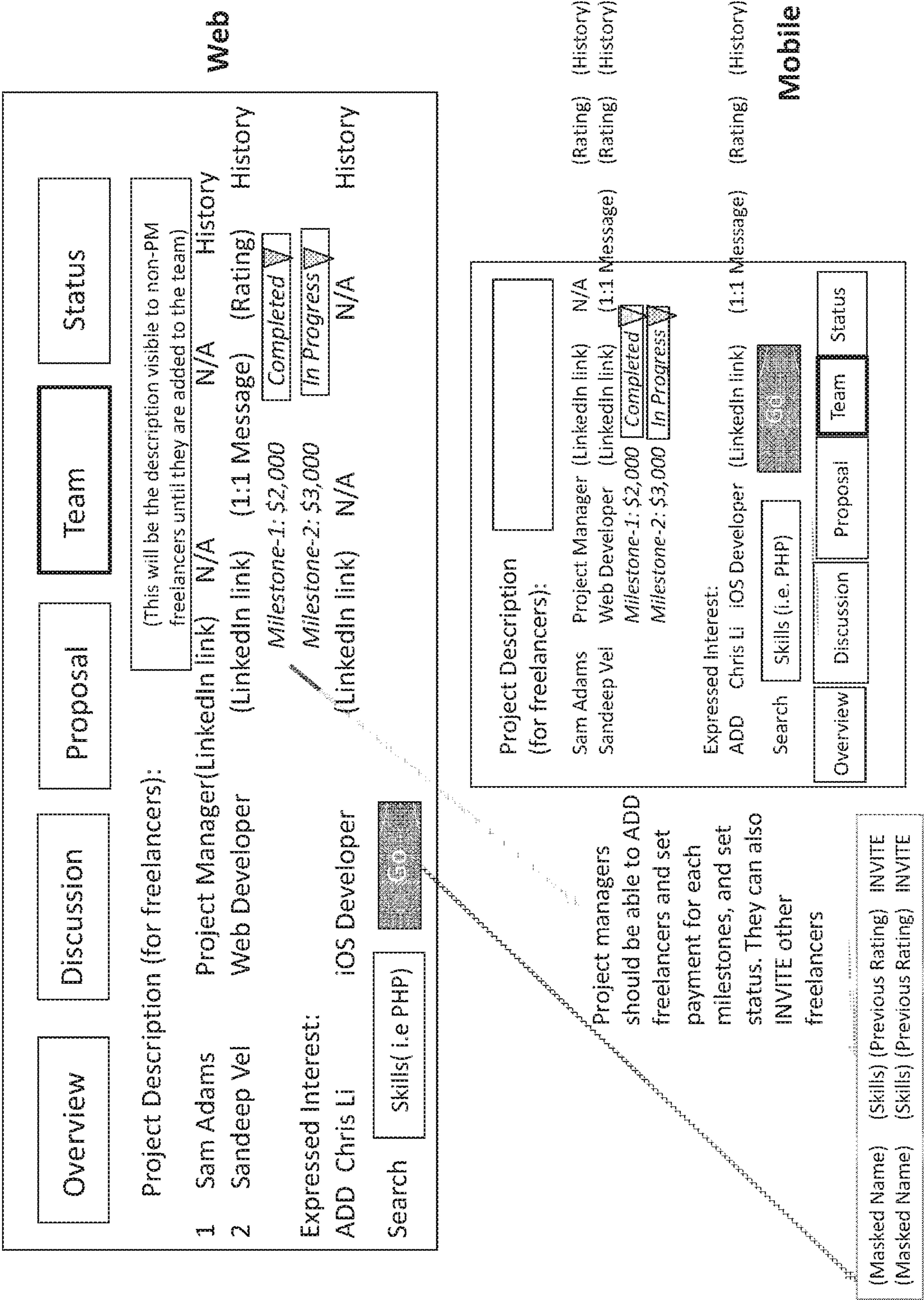


FIG. 6K



Project Details – Status Page

Overview

Discussion

Proposal

Team

Status

| # | Milestone   | Cost   | Status      |
|---|-------------|--------|-------------|
| 1 | Design      | \$5000 | Completed   |
| 2 | Development | \$8000 | In Progress |

Project Manager Comments

Project Management

Sourcecode Repository

Contracts Management

.....

BaseCamp

GitHub

DocuSign

Web

| # | Milestone   | Cost   | Status      |
|---|-------------|--------|-------------|
| 1 | Design      | \$5000 | Completed   |
| 2 | Development | \$8000 | In Progress |

Project Management

Sourcecode Repository

.....

BaseCamp

GitHub

Project Manager Comments

Overview

Discussion

Proposal

Team

Status

Mobile

FIG. 6L



Email Notifications – Freelance PM

Dear Jack (Freelance PM),

Customer has awarded the project to you. Please review the project details and start assembling the team.

Please confirm the team once you are done.

App Store

Google Play

Visit abc.com

F

T

L

Dear Jack (Freelance PM),

You have received a 1:1 message from Sue.

Please click here to open the message.

App Store

Google Play

Visit abc.com

F

T

L

Link to app store or google play

Link to social pages

FIG. 6M



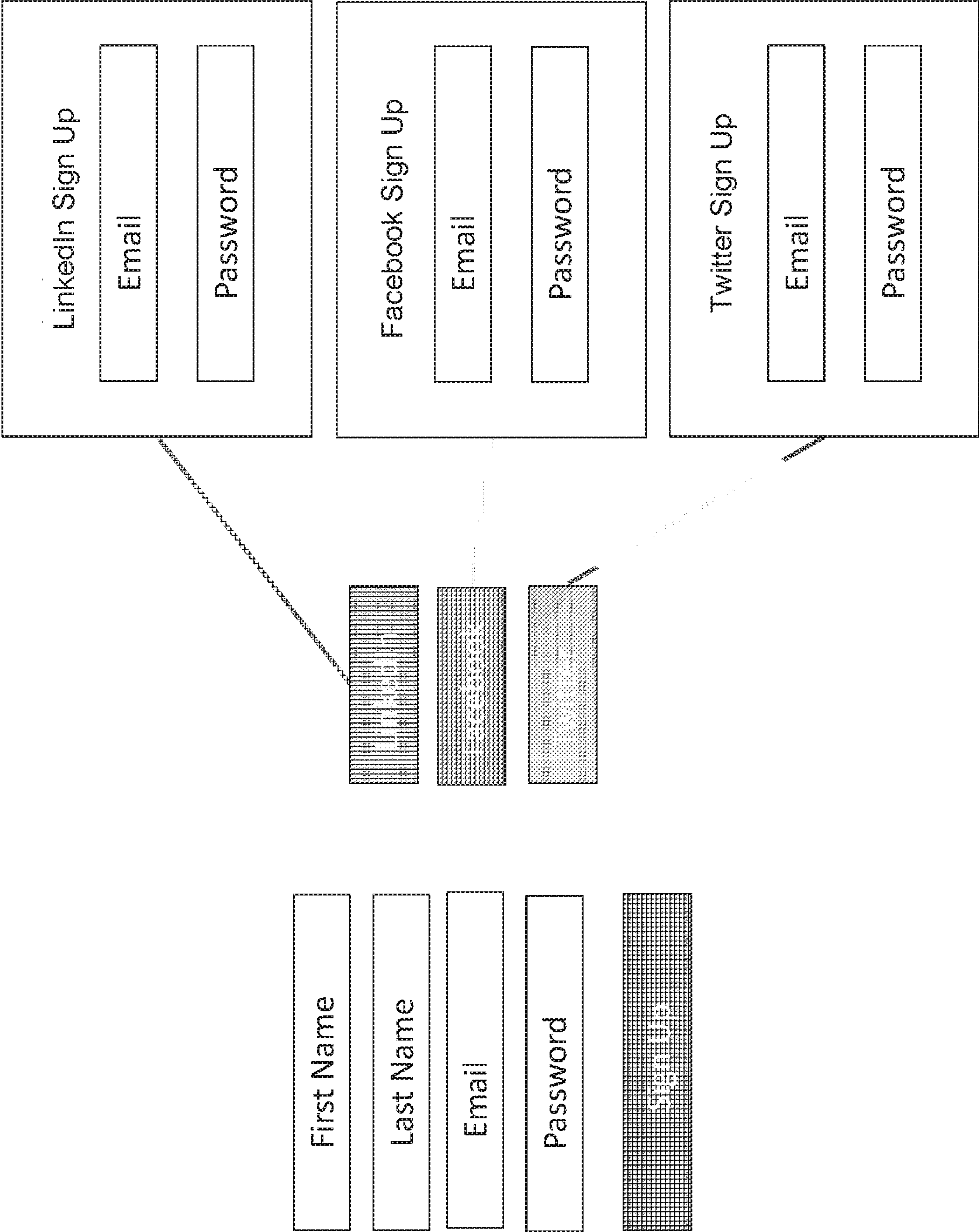


FIG. 7A

FIG. 7B



Profile Page

First Name

Last Name

Email

Phone Number

Geographies Worked (Multiple)

Languages Spoken (Multiple)

Size of Company worked (Multiple)

Industries Worked (Multiple)

Role ▼

Skills (Multiple)

LinkedIn (attach)

Country ▼

Change Password Page

Old Password

New Password

New Password

Change Password

Login

Email

Password

(Forgot your password)

Account Settings

Email Notification

Mobile Notification

X

X

Forgot Password

Email Address

FIG. 7C

FIG. 7D



Freelancer Dashboard

Home

List Projects

Discussion

Messages

Notifications

Profile

Profile Summary

(Welcome Sandeep, Freelance PM)

Project Summary

Number of Proposals Submitted: 6

Number of Projects Awarded: 2

Number of Projects Completed: 1

Number of Projects In Progress: 1

Recent Projects

Notifications

Messages

Web

Home

List Projects

Discussion

Support

About

Logout

Notification (icon)

Messages (icon)

Profile Summary

Project Summary

Number of Proposals Submitted: 6

Number of Projects Awarded: 2

Number of Projects Completed: 1

Number of Projects In Progress: 1

Recent Projects

Project Title

Project Description

Mobile

FIG. 7E



Freelancer Dashboard (New User)

Home

Post Project

My Projects

Messages

Support

Notifications

Profile

(Welcome Sandeep Vel)

1. Complete Profile

It is essential that you complete your profile so we can identify you.

2. Sign Agreement

Please complete the agreement page

3. Attach (or Email) Documents

Attach legal documents so we can verify you

Web

Home

Post Project

My Projects

Support

About

Logout

(Welcome Adam John)

1. Complete Profile

It is essential that you complete your profile so we can identify you.

2. Sign Agreement

Please complete the agreement page.

3. Attach (or Email) Documents

Attach legal documents so we can verify you

Mobile

FIG. 7F



Project List

|                    |        |               |  |
|--------------------|--------|---------------|--|
| Project Name       | Status | PM Name       |  |
| Title              | Status |               |  |
| Mobile App         |        | Submitted     |  |
| Platform migration |        | Not Submitted |  |
| Soln. Provisioning |        | Submitted     |  |

Web

|                    |               |
|--------------------|---------------|
| Status             | PM Name       |
| Project Name       |               |
| Title              | Status        |
| Mobile app         | Submitted     |
| Platform migration | Not Submitted |

Mobile

FIG. 7G



Project Details – Overview Page

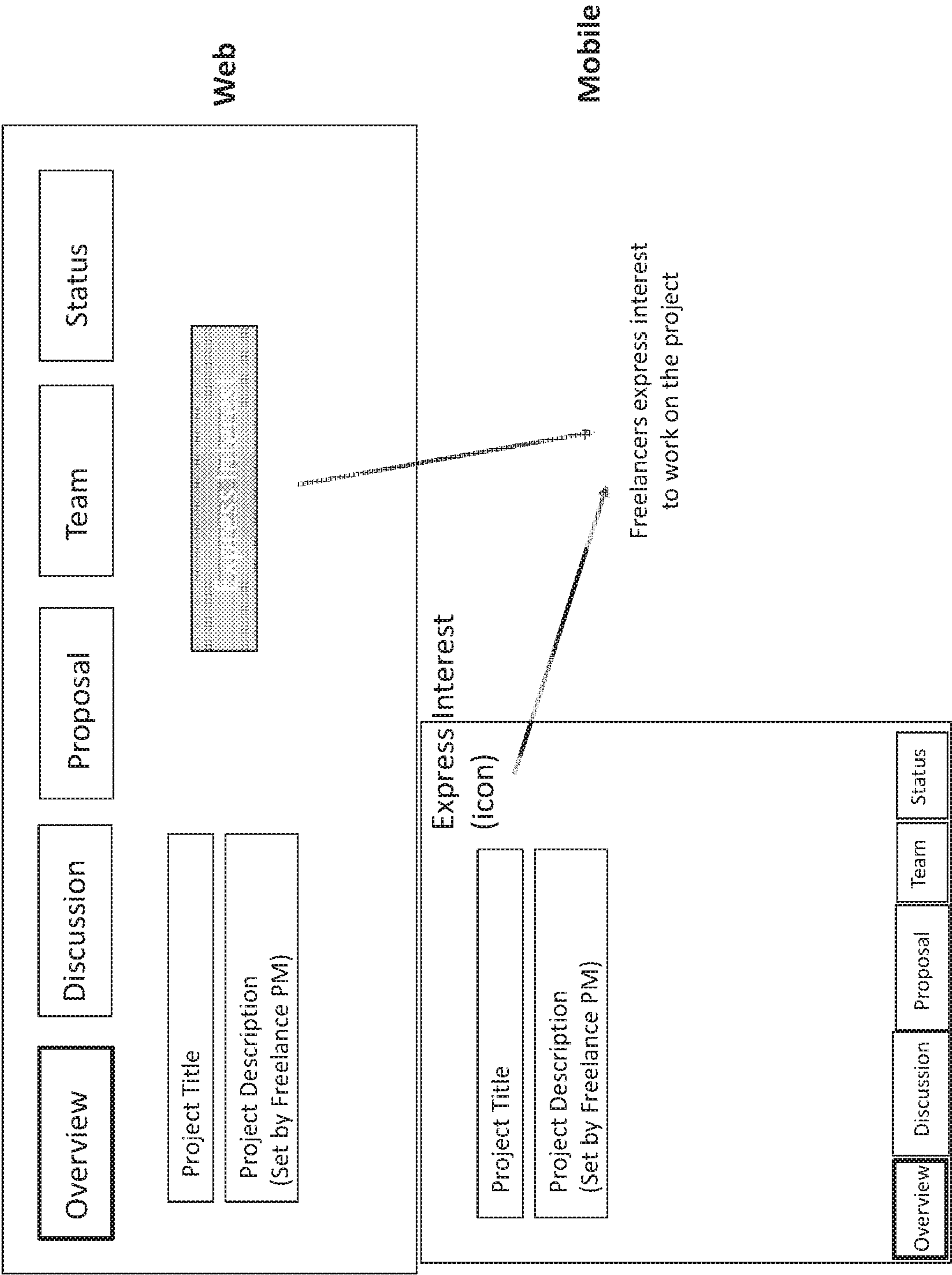


FIG. 7H



Project Details – Discussion Page

Overview

Discussion

Proposal

Team

Status

John

Test Comments

Client

Reply to Test comments

Web

John

Test Comments

Client

Reply to Test comments

Overview

Discussion

Proposal

Team

Status

Mobile

Freelancers discuss about the project with project manager(s)

FIG. 71



Project Details – Proposal Page

Overview

Discussion

Proposal

Team

Status

Proposals submitted by:

Jack Walsh

Project Awarded

Sue Clifton

Tim McCarthy

Web

Proposals were submitted by:

Jack Walsh

Project Awarded

Sue Clifton

Tim McCarthy

Overview

Discussion

Proposal

Team

Status

Mobile

FIG. 7J



Project Details – Team Page

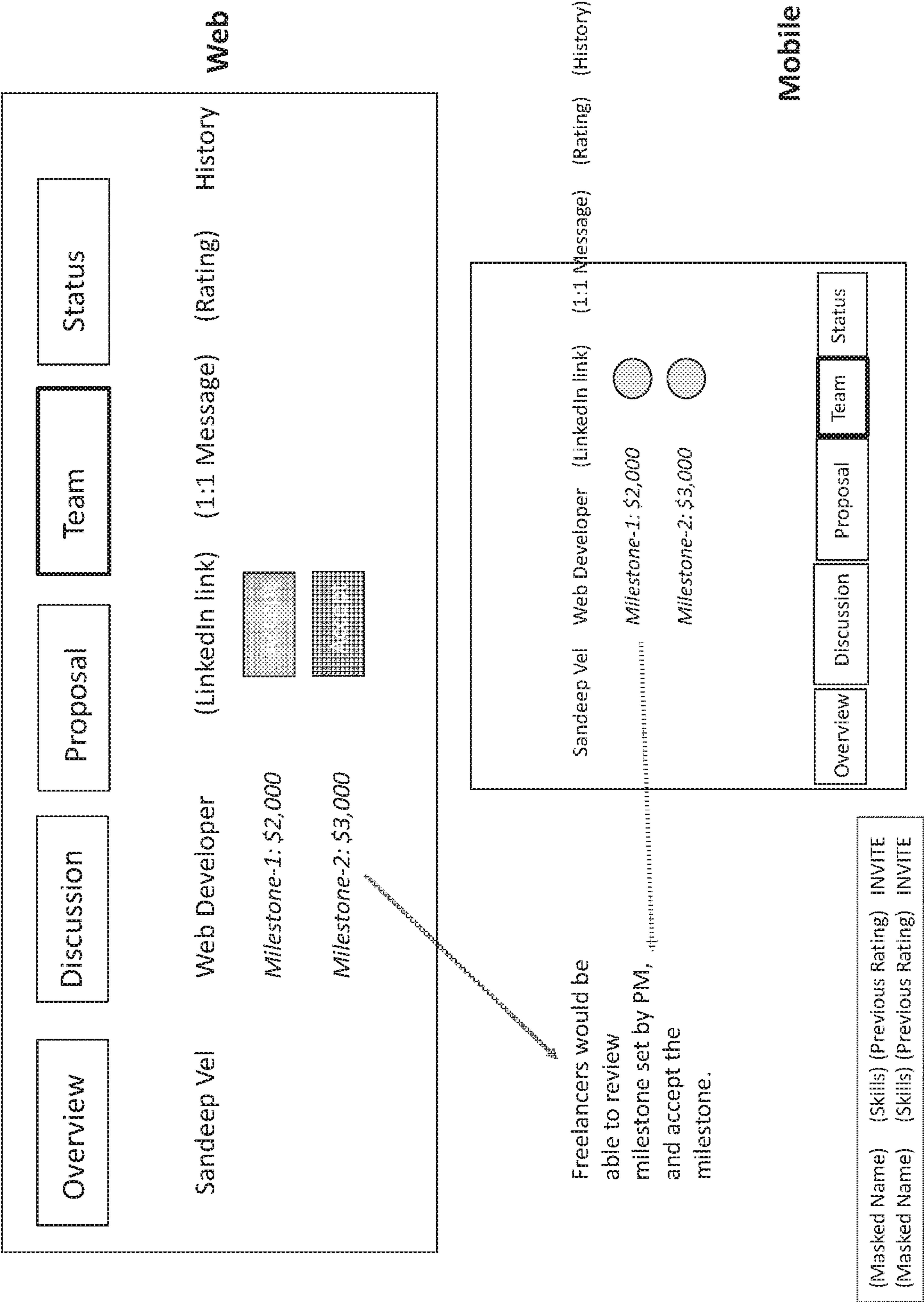


FIG. 7K



Project Details – Status Page

Overview

Discussion

Proposal

Team

Status

# Milestone

Cost

Status

1 Design

\$5000

Completed

2 Development

\$8000

In Progress

Project Manager Comments

Project Management

Sourcecode Repository

Contracts Management

.....

BaseCamp

GitHub

DocuSign

Web

# Milestone

Cost

Status

1 Design

\$5000

Completed

2 Development

\$8000

In Progress

Project Management

Sourcecode Repository

.....

BaseCamp

GitHub

Project Manager Comments

Overview

Discussion

Proposal

Team

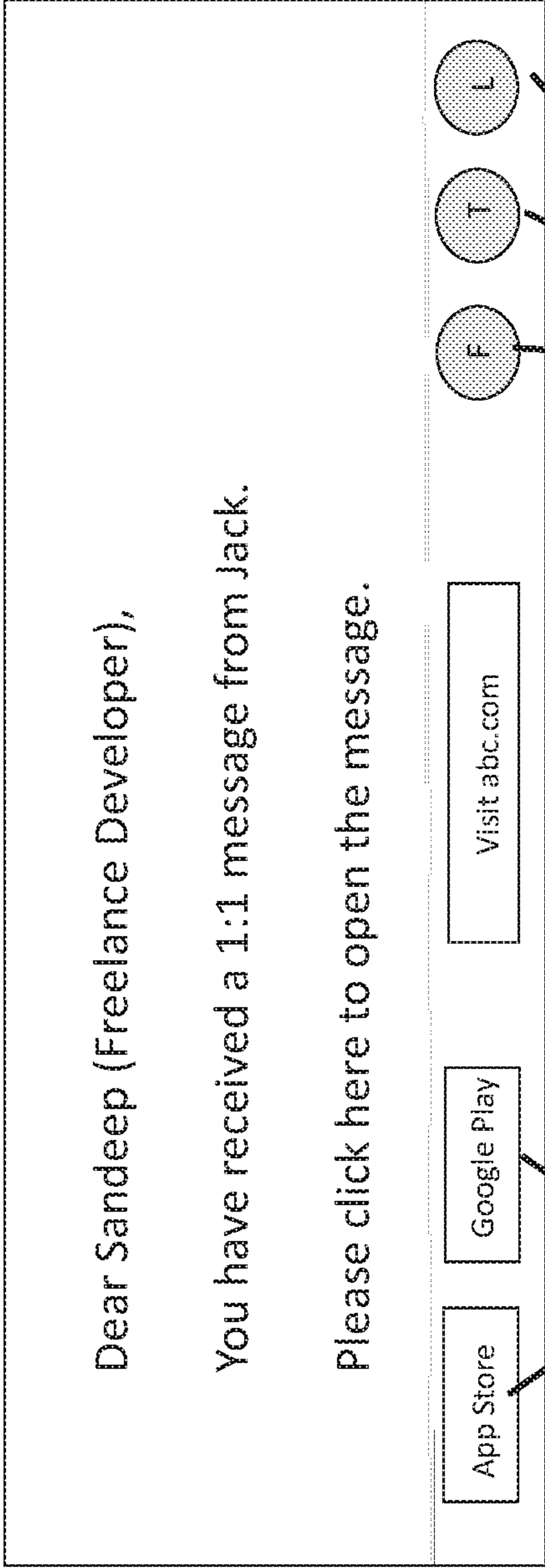
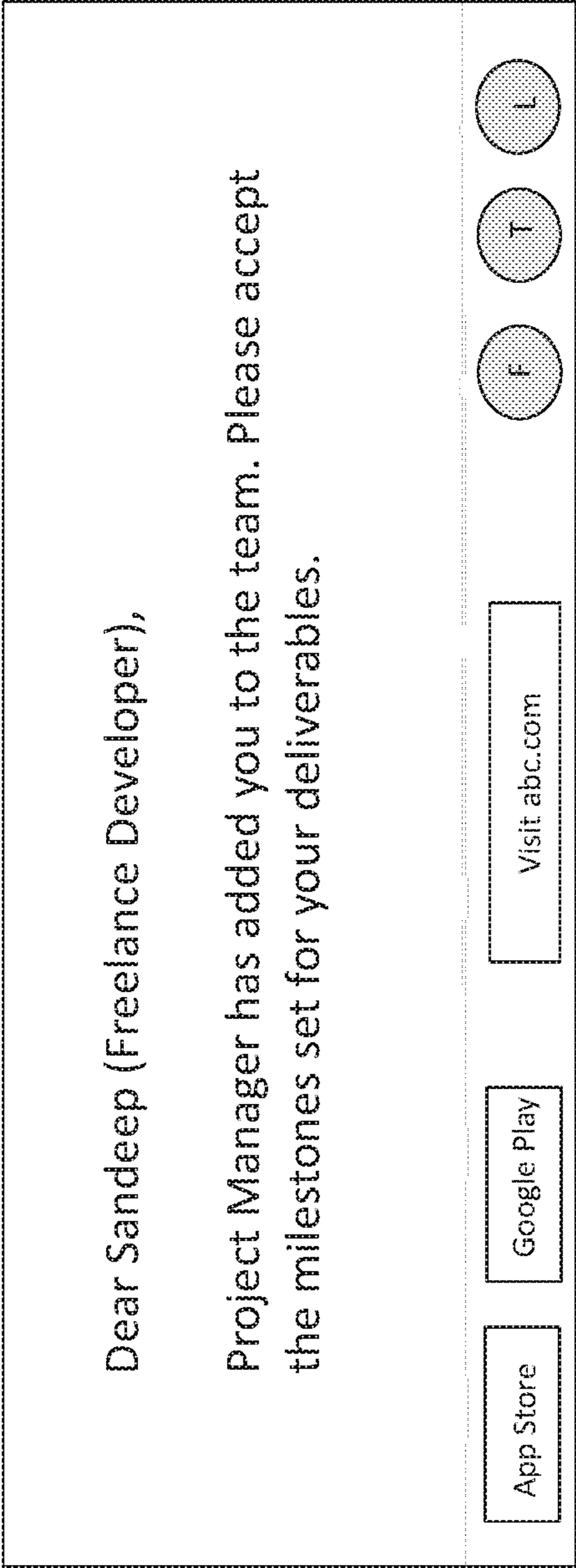
Status

Mobile

FIG. 7L



Email Notifications – Freelance PM



Link to app store or google play

Link to social pages

FIG. 7M



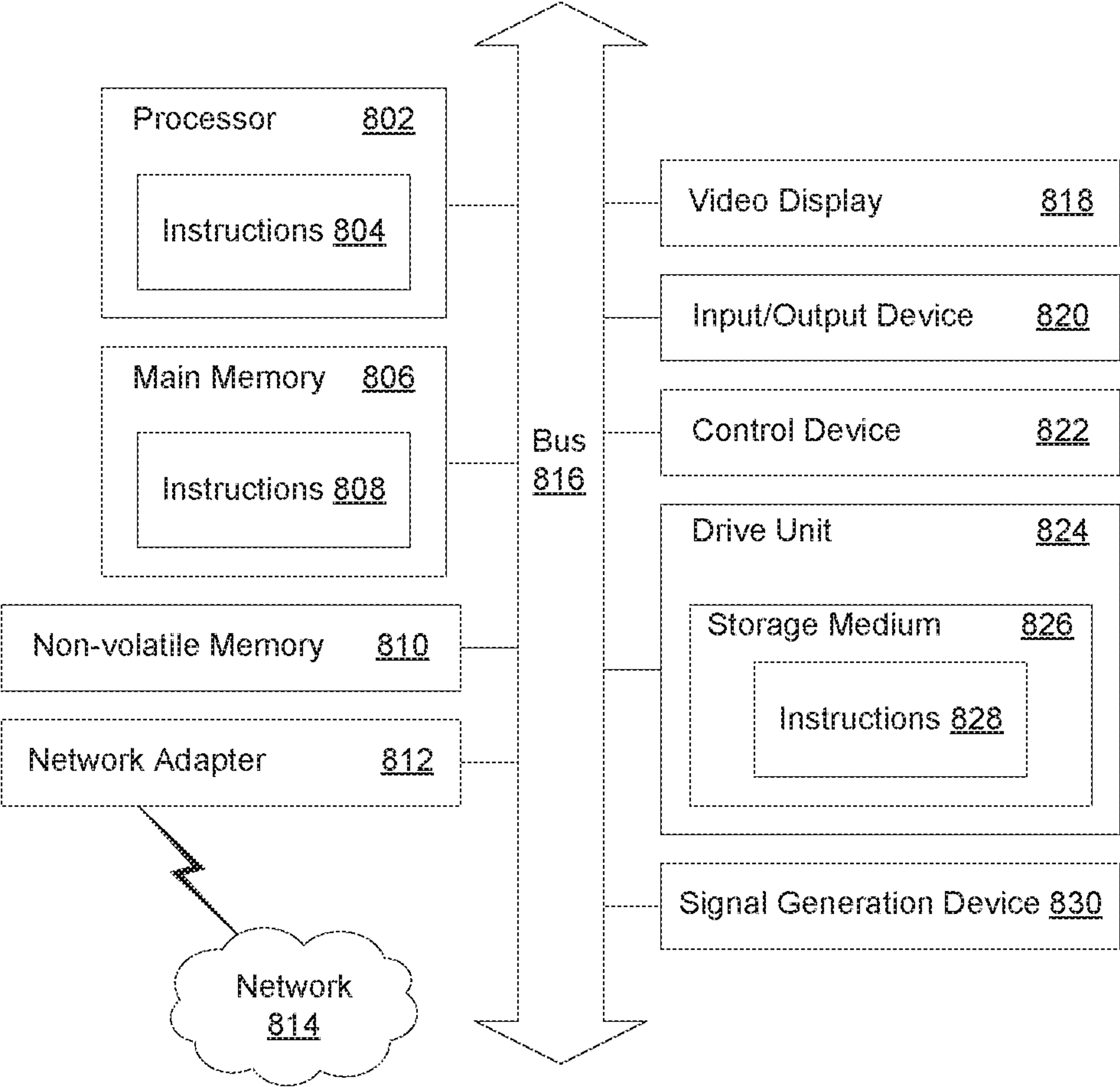
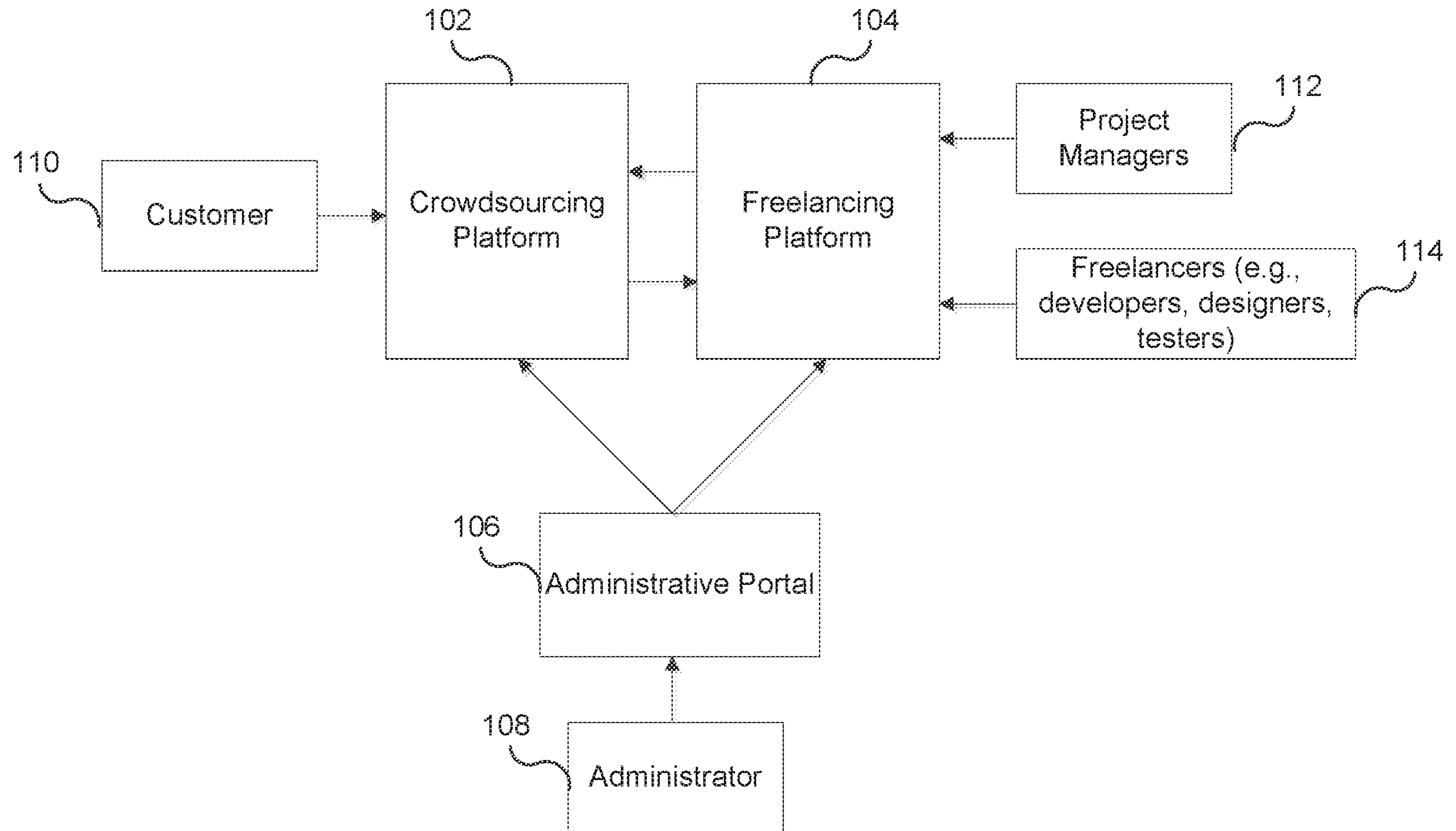


FIG. 8





**FIG. 1A**