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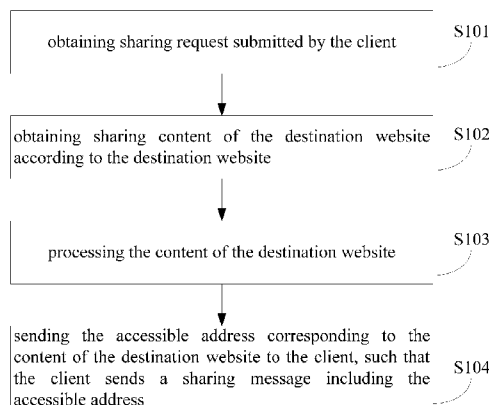


Fig. 1

(57) Abstract: Embodiments of the present disclosure disclose a method, a server, a client, and a system for sharing content. The method includes: obtaining sharing request submitted by the client, the sharing request including a destination website to be shared; obtaining sharing content of the destination website according to the destination website; processing the content of the destination website, and generating an accessible address corresponding to the content of the destination website; and sending the accessible address corresponding to the content of the destination website to the client, such that the client replaces the destination website by using the accessible address and sends a sharing message including the accessible address. The method, the server, the client, and the system can be directed to increase efficiency of visiting sharing content.



METHOD, CLIENT, SERVER, AND SYSTEM FOR SHARING CONTENT

This application claims the priority benefit of Chinese Patent Application No. 2013101187364, filed April, 8th 2013, the contents of which are incorporated by reference herein in their entirety for all purposes.

FIELD OF THE DISCLOSURE

The present disclosure relates to internet technology, and more particularly to a method, a client, a server, and a system for sharing content.

BACKGROUND OF THE DISCLOSURE

Generally, Sharing refers to a common network feature existing in various internet clients and browsers. Users can share feature of texts, pictures, videos, web links, and other content through certain channels, such as e-mail, social networking, or other channels to other destination users. Typically, the users send or publish Universal Resource Locator (URL) of contents to the destination users, so that other users can view the contents by opening the website. In existing technology, channels for sharing content generally include e-mail, micro-blogging, Social Networking Service (SNS) space, instant messaging (IM) tools. As web content on the internet often contains a variety of redundant information, such as a variety of advertising, relevant recommendations, pop news, the users are easily distracted from viewing the shared content by the redundant information.

SUMMARY OF THE DISCLOSURE

The embodiments of the present disclosure provide a method, a server, a client, and a system for sharing content. The method, the server, the client, and the system are directed to solve one or more problems set forth above and other problems, so that efficiency of visiting sharing content can be increased.

The technical solutions provided by the embodiments of the present disclosure include the following.

A method for sharing content, includes: obtaining sharing request submitted by the client, the sharing request including a destination website to be shared; obtaining sharing

content of the destination website according to the destination website; and processing the content of the destination website, and generating an accessible address corresponding to the content of the destination website; and sending the accessible address corresponding to the content of the destination website to the client, such that the client replaces the destination website by using the accessible address and sends a sharing message including the accessible address.

A sharing processing server, includes: a sharing request obtaining module, configured for obtaining sharing request, the sharing request comprising destination website; a content obtaining module, configured for obtain content of the destination website; a processing module, configured for processing content of the destination website, and generates an accessible address corresponding to the content of the destination website; and a sending module, configured for sending the accessible address corresponding to the content of the destination website to the client, such that the client replaces the destination website by using the accessible address and sends a sharing message including the accessible address.

A method for sharing content, includes: submitting sharing request to a sharing processing server, the sharing request comprising destination website; obtaining an accessible address corresponding to the content of the destination website processed by the sharing processing server; replacing the destination website by the accessible address and sending a sharing message including the accessible address, the sharing message including the accessible address of the content.

A client includes: a destination submitting module to a sharing processing server, configured for submitting sharing request, the sharing request comprising destination website; a content obtaining module, configured for obtaining an accessible address corresponding to the content of the destination website processed by the sharing processing server; a releasing module, configured for replacing the destination website by the accessible address and sending a sharing message including the accessible address, the sharing message including the accessible address of the content.

A system includes an above mentioned server and an above mentioned client.

As can be seen from the above technical solutions, according to the embodiments of the present disclosure, the above sharing processing server processes content of the destination website according to the sharing request submitted by the client, and further sends an accessible address corresponding to the content of the destination website, thus

realizing sharing function. In this way, the visitor has better experience when visiting the shared content of the users, and efficiency of visiting sharing content can be increased.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a basic flowchart of an exemplary method for sharing content, in accordance with a first embodiment of the present disclosure.

FIG. 2 is a basic flowchart of another exemplary method for sharing content, in accordance with a second embodiment of the present disclosure.

FIG. 3 is a block diagram of a sharing processing server, in accordance with an embodiment of the present disclosure.

FIG. 4 is a block diagram of a processing module of the server of FIG. 3.

FIG. 5 is a block diagram of a client for sharing content, in accordance with an embodiment of the present disclosure.

FIG. 6 is a block diagram of a system for sharing content, in accordance with an embodiment of the present disclosure.

DETAILED DESCRIPTION OF THE DISCLOSURE

Reference throughout this specification to "one embodiment," "an embodiment," "specific embodiment," or the like in the singular or plural means that one or more particular features, structures, or characteristics described in connection with an embodiment is included in at least one embodiment of the present disclosure. Thus, the appearances of the phrases "in one embodiment" or "in an embodiment," "in a specific embodiment," or the like in the singular or plural in various places throughout this specification are not necessarily all referring to the same embodiment. Furthermore, the particular features, structures, or characteristics may be combined in any suitable manner in one or more embodiments.

FIG.1 is a basic flowchart of an exemplary method for sharing content, in accordance with a first embodiment of the present disclosure. The method for sharing content can be applied in network servers with sharing supporting function, such as Mail servers, SNS (Social Networking Services, the social networking service) servers, instant messaging servers, etc. In this embodiment, the server for applying the content sharing method can be referred to as sharing processing server. In this embodiment, the method shown in FIG. 1 includes step S101 to S104.

Step S101, obtaining sharing request submitted by the client, the sharing request including a destination website to be shared.

In this embodiment, the sharing request is initiated by clicking a button corresponding to sharing function on the user interface of a client (or user terminal). The sharing request is submitted to the sharing processing server. The sharing request includes a destination website (Uniform Resource Locator, URL) to be shared.

Step S102, obtaining sharing content of the destination website, according to the destination website.

In this embodiment, the sharing processing server can obtain content of the destination website by analyzing the destination website. The content of the destination website may include a page of the destination, a video of the destination, a photo of the destination. Optionally, before obtaining content of the destination website, the sharing processing server can apply safety testing to the destination website. In operation, the sharing processing server can match the website of the shared content with websites stored in a risk website database, to identify whether the destination website is a counterfeit website, or to identify whether the page of the website contains malicious plug-ins. The sharing processing server obtains sharing content of the destination website, after confirming the destination website is safe. If the destination website is confirmed to be unsafe, the sharing processing server sends a notice showing processing failures to the client, or directly sends the original website of destination to the client.

Step S103, processing the content of the destination website, and generating an accessible address corresponding to the content of the destination website.

In this embodiment, the sharing processing server processes the content of the destination website, includes: cleaning redundant information of the shared content of the destination website and/or re-arranging layout of the content of the destination website, in which:

In this embodiment, cleaning the content of the destination website includes removing unnecessary data and elements of the content in the destination by using intelligent processing method. Take website as an example, the cleaning method may include:

- 1) a rendering engine parses the pages and arranges layout of the pages, and further obtain coordinates, area, fonts and other visual information of the DOM (Document Destination Model) node in the pages.

- 2) dividing the DOM structure of the page into a variety of blocks using visual information thereof.
- 3) identifying the blocks on the pages, distinguishing valid blocks: such as title blocks, text blocks, and time blocks, etc.
- 4) extracting core field in the effective blocks, clear other data and other elements in the web pages.

In this embodiment, the layout of the shared content of the destination website is re-arranged to adjust different types of terminal, different display pixel size, and different ratios, and other browse parameters. That is, the layout of the shared content of the destination website is re-arranged to adjust content of the at least one preset layout of the above browse parameters. When other users visit the content of the processed destination via different terminal types (such as mobile phones, computers and tablet PCs), sizes or scales of different display pixel, content of the destination website matching with its browse parameters can be viewed.

After the content of the destination website is processed, the sharing processing server generates an accessible address corresponding to the content of the destination website. That is, the content of the destination website of different layout is related to a unique accessible address. When the user visits the content of the destination website using the accessible address, the website server storing the content of the destination website sends contents of the destination corresponding to the layout to the client, after identifying the browse parameters of the user terminal.

Step S104, sending the accessible address corresponding to the content of the destination website to the client. In this way, the client (terminal) replaces the destination website by using the accessible address and sends a sharing message including the accessible address.

In this embodiment, the sharing processing server sends the sharing message to the client if the content of the destination website is processed. The client replaces the destination website by the accessible address and sends a sharing message including the accessible address, thus realizing sharing function, that is, sending sharing message including the accessible address.

FIG.2 is a basic flowchart of an exemplary method for sharing content, in accordance with a second embodiment of the present disclosure. In this embodiment, the

method shown in FIG. 2 includes step S201 to S209.

Step S201, a client submits sharing request to a sharing processing server, the sharing request including a destination website.

In this embodiment, the sharing request is initiated by clicking a button corresponding to sharing function on the user interface of a client (or user terminal), the sharing request is submitted to the sharing processing server. The sharing request includes a destination website (URL) to be shared.

Step S202, the sharing processing server applies safety testing to the destination website, if the destination website is confirmed to be safe, then step S203 is applied. If the destination website is confirmed to be unsafe, the sharing processing server sends a notice showing processing failures to the client, or directly sends the original website of destination to the client. In operation, the sharing processing server can match the website of the shared content with websites stored in a risk website database, to identify whether the destination website is a counterfeit website, or to identify whether the page of the website contains malicious plug-ins.

Step S203, the sharing processing server cleans redundant information of the shared content of the destination website, if the redundant information of the shared content of the destination website is cleaned successfully, then step S204 is applied, or the sharing processing server sends a notice showing processing failures to the client, or directly sends the original website of destination to the client. In operation, cleaning the content of the destination website includes removing unnecessary data and elements of the content in the destination by using intelligent processing method. Take website as an example, the cleaning method may include:

- 3) a rendering engine parses the pages and arranges layout of the pages, and further obtain coordinates, area, fonts and other visual information of the DOM (Document Destination Model) node in the pages.
- 4) dividing the DOM structure of the page into a variety of blocks using visual information thereof.
- 3) identifying the blocks on the pages, distinguishing valid blocks: such as title blocks, text blocks, and time blocks, etc.
- 4) extracting core field in the effective blocks, clear other data and other elements in the web pages.

Step S204, the sharing processing server re-arranges the layout of the shared

content of the destination website, and obtains content of the at least one preset layout. In this embodiment, the layout of the shared content of the destination website is re-arranged by the sharing processing server to adjust different types of terminal (such as mobile phones, computers and tablet PCs), different display pixel size, and different ratios, and other browse parameters. When other users visit the content of the processed destination via different terminal types, sizes or scales of different display pixel, content of the destination website matching with its browse parameters can be viewed.

Step S205, the sharing processing server sends an accessible address corresponding to the content of the destination website. In this embodiment, the sharing processing server generates a unique accessible address corresponding to the content of the destination website with at least one pre-arranged layout. When the user visit the accessible address corresponding to the content of the destination website, the sharing processing server sends content of the destination website with the prearranged layout by using the browse parameters of the user's terminal.

Step S206, the client (terminal) replaces the destination website by using the accessible address and sends a sharing message including the accessible address. The sharing message includes the accessible address of the content of the destination website. Specifically, the client may replace the destination website into accessible address sent by the sharing processing server, and thus realizing sharing function, that is, sending sharing message including the accessible address. In this embodiment, the client sends the sharing message to another client. In alternative embodiments, the client can release the accessible address on personal space or homepage of the social networking service (SNS) websites, such that more people can view the shared message.

Step S207, another client submits a visiting request to the sharing processing server according to the accessible address of the content. It is noted, in this embodiment of the present embodiment, the sharing processing server can be used to receive the request and also response to the visiting requests. In alternative embodiments, the sharing processing server can be used to store content of processed destination website in other network resource servers, the accessible address can be linked to the network resource servers, that is, the network resource servers can be used to receive the request and also response to the visiting requests.

Step S208, the sharing processing server obtains browse parameters of another client, the browse parameters includes terminal types, sizes or scales of different display

pixel, etc. In alternative embodiments, the steps S207 and S208 can be applied simultaneously.

Step S209, the sharing processing server sends content of the destination website corresponding to layout of another client, according to the browse parameters of another client. In operation, the sharing processing server matches with the content of the destination website in a variety of contents of the destination websites with different layout, according to browse parameters of another client. In addition, the sharing processing server sends content of the destination website corresponding to layout of another client. In this way, a visitor has better experience when visiting the shared content of the users, and efficiency of visiting sharing content can be increased.

FIG. 3 is a block diagram of a sharing processing server, in accordance with an embodiment of the present disclosure. In this embodiment, the server for sharing content can be applied in network servers with sharing supporting function, such as Mail servers, SNS (Social Networking Services, the social networking service) servers, instant messaging servers, etc. In this embodiment, the server for applying the content sharing method can be referred to as sharing processing server. In this embodiment, the sharing processing server shown in FIG. 3 includes a sharing request obtaining module 310, a content obtaining module 320, a processing module 330, and a sending module 340.

The sharing request obtaining module 310 is used to obtain sharing request, the sharing request including a destination website.

In this embodiment, the sharing request is initiated by clicking a button corresponding to sharing function on the user interface of a client (or user terminal), the sharing request is submitted to the sharing processing server. The sharing request includes a destination website (URL) to be shared. In this way, the sharing request obtaining module 310 obtains sharing request submitted by the client.

The content obtaining module 320 is used to obtain content of the destination website, according to the destination website.

In this embodiment, the content obtaining module 320 can analyze the destination website. The content of the destination website may include a page of the destination, a video of the destination, a photo of the destination.

The processing module 330 is used to processing content of the destination website, and generates an accessible address corresponding to the content of the destination website.

In this embodiment, the processing module 330 is shown in FIG. 4, and includes a cleaning unit 331 and a content re-arranging unit 332.

The cleaning unit 331 is used to clean redundant information of the shared content of the destination website. In this embodiment, cleaning the content of the destination website includes removing unnecessary data and elements of the content in the destination by using intelligent processing method. Take website as an example, the cleaning method may include:

- 1) a rendering engine parses the pages and arranges layout of the pages, and further obtain coordinates, area, fonts and other visual information of the DOM (Document Destination Model) node in the pages.
- 2) dividing the DOM structure of the page into a variety of blocks using visual information thereof.
- 3) identifying the blocks on the pages, distinguishing valid blocks: such as title blocks, text blocks, and time blocks, etc.
- 4) extracting core field in the effective blocks, clear other data and other elements in the web pages.

The content re-arranging unit 332 is used to re-arrange the layout of the shared content of the destination website, thus obtaining content of at least one preset layout. In this embodiment, the content re-arranging unit 332 re-arranges the layout of the shared content of the destination website to adjust different types of terminal, different display pixel size, and different ratios, and other browse parameters. That is, the layout of the shared content of the destination website is re-arranged by the content re-arranging unit 332 to adjust content of the at least one preset layout of the above browse parameters. When other users visit the content of the processed destination via different terminal types (such as mobile phones, computers and tablet PCs), sizes or scales of different display pixel, content of the destination website matching with its browse parameters can be viewed.

The sending module 340 is used to send an accessible address corresponding to the content of the destination website. In this way, the client (terminal) replaces the destination website by using the accessible address and sends a sharing message including the accessible address. In this embodiment, the sending module 340 generates a unique accessible address corresponding to the content of the destination website with at least one preset layout, and further sends the unique accessible address to the client. When the

client receives the accessible address of the content, the client replaces the destination website by the accessible address and sends a sharing message including the accessible address, thus realizing sharing function, that is, sending sharing message including the accessible address. When other user visits the content of the destination website using the accessible address, the website server storing the content of the destination website sends contents of the destination corresponding to the layout to the client, after identifying the browse parameters of the user terminal.

Optionally, the share processing server further includes a safety monitoring module 350. The safety monitoring module 350 is used to identify whether the destination website is safe. The safety monitoring module 350 notifies the content obtaining module 320 to obtain sharing content of the destination website. In this embodiment, the safety monitoring module 350 can match the website of the shared content with websites stored in a risk website database, to identify whether the destination website is a counterfeit website, or to identify whether the page of the website contains malicious plug-ins. In this way, whether the destination website is safe is identified by the safety monitoring module 350.

In this embodiment, the sending module 340 is used to send a notice showing processing failures to the client, when the safety monitoring module 350 identifies the destination website is unsafe, or the processing module 330 processes content of the destination website failures.

Optionally, the share processing server further includes a visiting request obtaining module 360, a browse parameter obtaining module 370, and a content sending module 380. The visiting request obtaining module 360 is used to obtain visiting request submitted by another client according to the accessible address of the content. In this embodiment, another client submits visiting request according to the accessible address of the content, when receiving the sharing message sent by the client, or receiving the accessible address shared in other ways. It is noted, in this embodiment of the present embodiment, the visiting request obtaining module 360 of the sharing processing server can be used to receive the request and also response to the visiting requests. In alternative embodiments, the visiting request obtaining module 360 of the sharing processing server can be used to store content of processed destination website in other network resource servers, the accessible address can be linked to the network resource servers, that is, the network resource servers can be used to receive the request and also response to the

visiting requests.

The browse parameter obtaining module 370 is used to obtain the browse parameters of another client, the browse parameters includes terminal types, sizes or scales of different display pixel, etc. In alternative embodiments, the browse parameter obtaining module 370 and the visiting request obtaining module 360 can be integrated together.

The content sending module 380 is used to send contents of the destination corresponding to layout of another client, according to the browse parameters of another client. In operation, the content sending module 380 matches with the content of the destination website in a variety of contents of the destination websites with different layout, according to browse parameters of another client. The content of the destination website in a variety of contents of the destination websites with different layout is processed previously by the processing module 330. In addition, the content sending module 380 sends content of the destination website corresponding to layout of another client. In this way, a visitor has better experience when visiting the shared content of the users, and efficiency of visiting sharing content can be increased.

FIG. 5 is a block diagram of a client for sharing content, in accordance with an embodiment of the present disclosure. The client can be a mobile phone, a tablet computer, a personal computer, a car navigation device, or other Internet terminal. As shown in FIG. 5, the client in this embodiment of present disclosure may include a destination submitting module 510, a content obtaining module 520, a releasing module 530.

The destination submitting module 510 is used to submit sharing request to the sharing processing server, the sharing request including a destination website. In this embodiment, the sharing request is triggered by clicking a button corresponding to sharing function on the user interface of a client (or user terminal), and can be initiated by the content obtaining module 510. The sharing request is submitted to the sharing processing server. The sharing request includes a destination website (URL) to be shared.

The content obtaining module 520 can be used to obtain an accessible address corresponding to the content of the destination website processed by the sharing processing server.

The releasing module 530 is used to replace the destination website by the accessible address and sends a sharing message including the accessible address. The

sharing message includes the accessible address of the content. In this embodiment, the releasing module 530 replaces the destination website by the accessible address, thus realizing sharing function, that is, sending sharing message including the accessible address.

FIG. 6 is a block diagram of a system for sharing content, in accordance with an embodiment of the present disclosure. As shown in FIG. 6, the system for sharing content includes a content sharing client 610 and a sharing processing server 620.

In this embodiment, the content sharing client 610 can be the one shown in FIG. 5 and described in the above embodiment. The content sharing client 610 is used to submit sharing request to the sharing processing server 620, the sharing request including a destination website. In addition, the content sharing client 610 obtain an accessible address corresponding to the content of the destination website processed by the sharing processing server. Furthermore, the content sharing client 610 replace the destination website by the accessible address and sends a sharing message including the accessible address. The sharing message includes the accessible address of the content.

The sharing processing sever 620 can be the one shown in FIG. 3 and FIG. 4, and is described in the above embodiment. The sharing processing sever 620 obtains sharing request submitted by the client 610. In addition, the sharing processing sever 620 obtains sharing content of the destination website, processes content of the destination website, and further generates an accessible address corresponding to the content of the destination website. Furthermore, the sharing processing server 620 sends an accessible address corresponding to the content of the destination website.

According to various embodiments of the present disclosure, the above sharing processing server processes content of the destination website according to the sharing request submitted by the client, and further sends an accessible address corresponding to the content of the destination website, thus realizing sharing function. In this way, the visitor has better experience when visiting the shared content of the users, and efficiency of visiting sharing content can be increased.

The server, the client, and the system described above according to various embodiments are merely illustrative. The units/modules depicted as separate components may be or may not be physically separated. Components shown as units may be or may not be physical units. That is, they may be located in one place or may be distributed to

multiple network units. According to practical needs, part or all of the units/modules can be selected to achieve the purpose according to various embodiments.

The methods, the server, the client, and the system in accordance with various embodiments can be accomplished using a program/software to instruct related hardware. The hardware can include any suitable universal hardware, or any suitable specialized hardware including, e.g., specialized integrated circuits, specialized central processing unit (CPU), specialized memory, specialized components, etc. For example, the hardware can include personal computer, server, network device, etc. The program/software can be stored in a computer-readable storage medium including, e.g., ROM/RAM, magnetic disk, optical disk, etc.

The embodiments described above are merely preferred ones of the present disclosure but are not limitations to the protection scope of the present disclosure, and any variations or substitutions easily devised by those skilled in the art without departing from the spirit of the present disclosure fall within the scope of the protection. Therefore, the protection scope of the present disclosure shall be subject to that specified by the appended claims.

CLAIMS

What is claimed is:

1. A method for sharing content, comprising:

obtaining sharing request submitted by the client, the sharing request including a destination website to be shared;

obtaining sharing content of the destination website according to the destination website;

processing the content of the destination website, and generating an accessible address corresponding to the content of the destination website; and

sending the accessible address corresponding to the content of the destination website to the client, such that the client replaces the destination website by using the accessible address and sends a sharing message including the accessible address.

2. The method of claim 1, wherein processing the content of the destination website, comprises:

cleaning redundant information of the shared content of the destination website.

3. The method of claim 1 or claim 2, wherein processing the content of the destination website, comprises:

re-arranging layout of the content of the destination website, and obtaining content of the destination website with at least one preset layout.

4. The method of claim 1, wherein before obtaining sharing content of the destination website according to the destination website, the method further comprises:

confirming the destination website is safe.

5. The method of claim 4, wherein the method further comprises:

sending a notice showing processing failures to the client, when the destination website is identified to be unsafe, or the content of the destination website is processed failure.

6. The method of claim 3, wherein after sending the accessible address

corresponding to the content of the destination website to the client, the method further comprises:

- obtaining a visiting request submitted by another client according to the accessible address of the content;

- obtaining at least one browse parameter of another client;

- sending content of the destination website corresponding to layout of another client, according to the browse parameters of another client.

7. A sharing processing server, comprising:

- a sharing request obtaining module, configured for obtaining sharing request, the sharing request comprising destination website;

- a content obtaining module, configured for obtain content of the destination website;

- a processing module, configured for processing content of the destination website, and generates an accessible address corresponding to the content of the destination website; and

- a sending module, configured for sending the accessible address corresponding to the content of the destination website to the client, such that the client replaces the destination website by using the accessible address and sends a sharing message including the accessible address.

8. The server of claim 7, wherein the processing module comprises:

- a cleaning unit, configured for cleaning redundant information of the shared content of the destination website.

9. The server of claim 7 or claim 8, wherein the processing module, comprises:

- a content re-arranging unit, configured for re-arranging layout of the content of the destination website, and obtaining content of the destination website with at least one preset layout.

10. The server of claim 7, further comprising:

- a safety monitoring module, configured for confirming the destination website is safe.

11. The server of claim 10, wherein the sending module is further configured for sending a notice showing processing failures to the client, when the destination website is identified to be unsafe, or the content of the destination website is processed failure.

12. The server of claim 9, further comprising:

a visiting request obtaining module, configured for obtaining a visiting request submitted by another client according to the accessible address of the content;

a browse parameter obtaining module, configured for obtaining at least one browse parameter of another client;

a content sending module, configured for sending content of the destination website corresponding to layout of another client, according to the browse parameters of another client.

13. A method for sharing content, comprising:

submitting sharing request to a sharing processing server, the sharing request comprising destination website;

obtaining an accessible address corresponding to the content of the destination website processed by the sharing processing server;

replacing the destination website by the accessible address and sending a sharing message including the accessible address, the sharing message including the accessible address of the content.

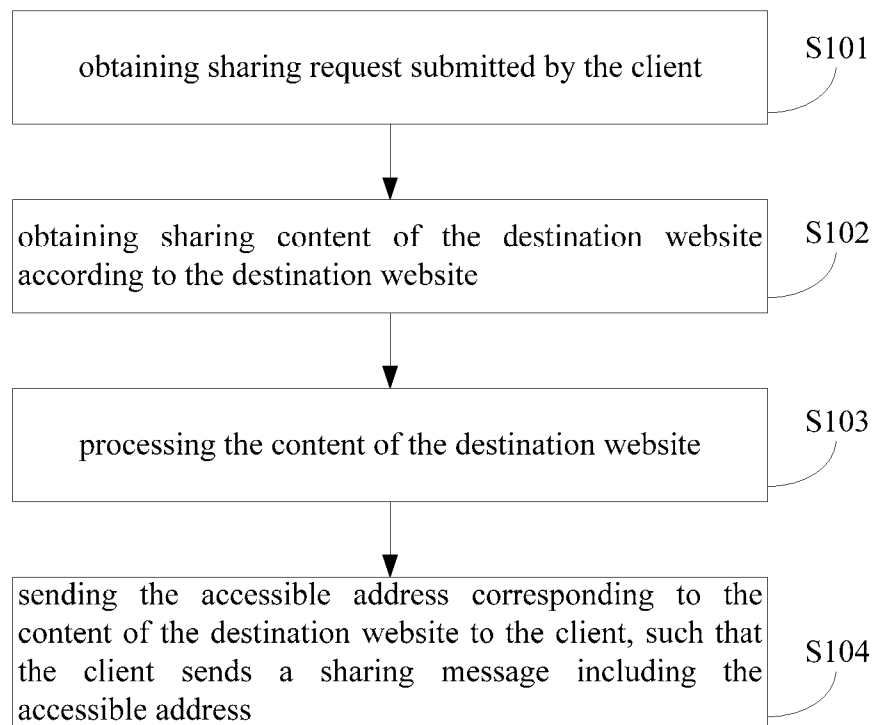
14. A client, comprising:

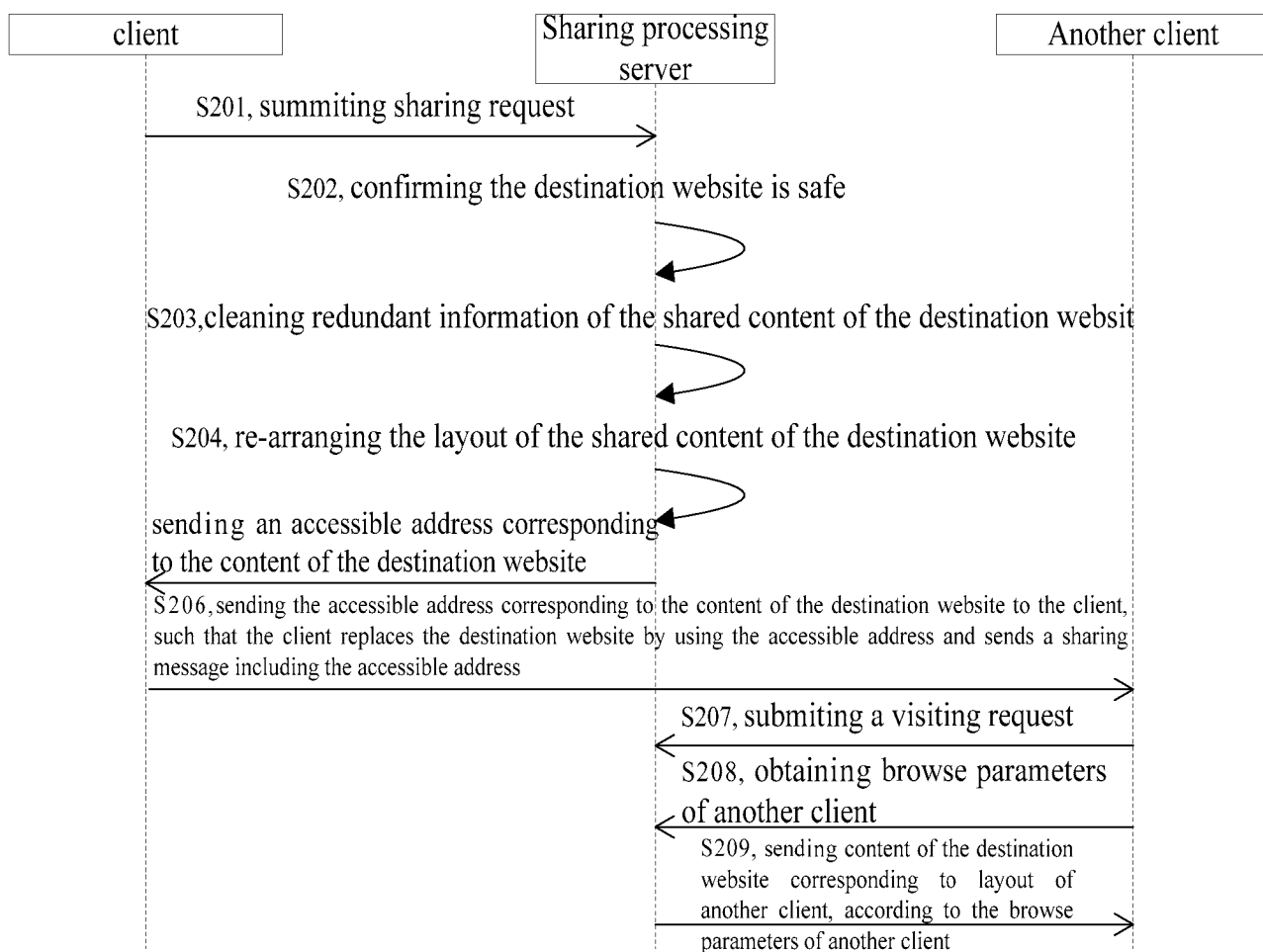
a destination submitting module to a sharing processing server, configured for submitting sharing request, the sharing request comprising destination website;

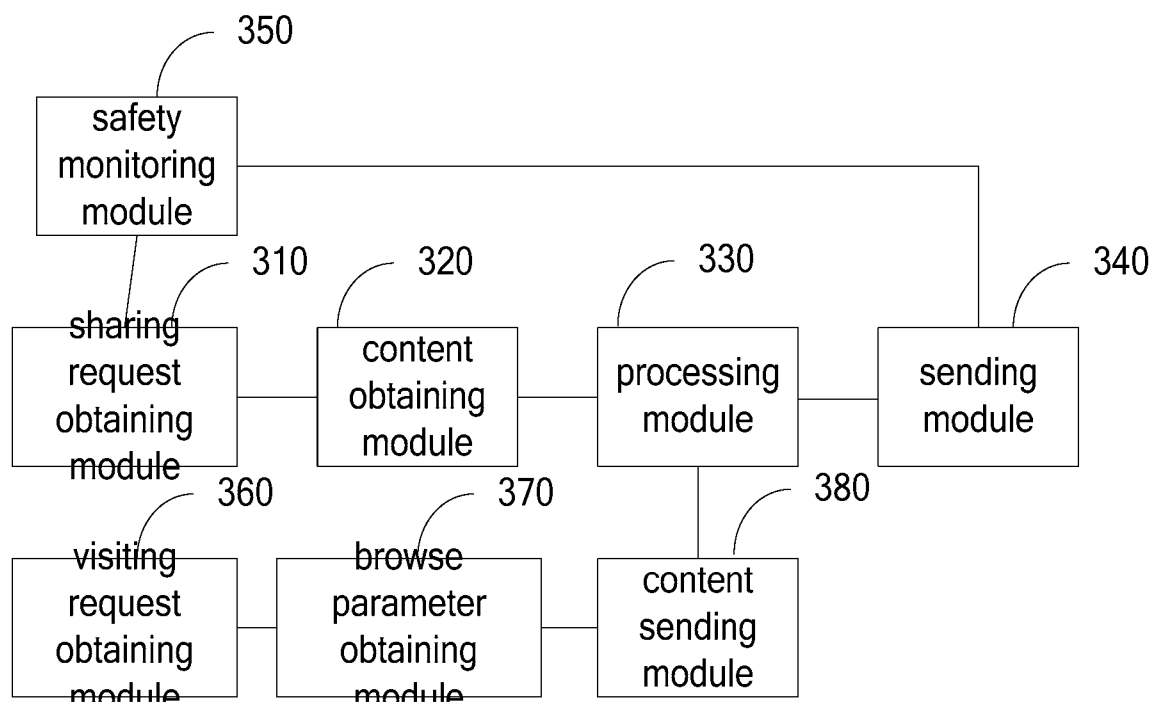
a content obtaining module, configured for obtaining an accessible address corresponding to the content of the destination website processed by the sharing processing server;

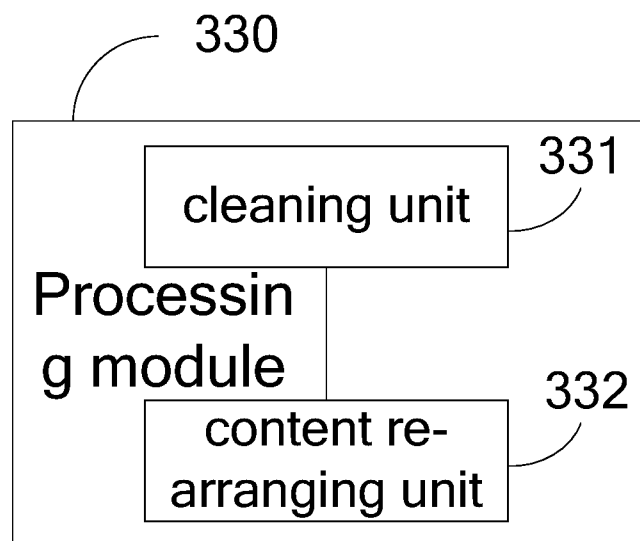
a releasing module, configured for replacing the destination website by the accessible address and sending a sharing message including the accessible address, the sharing message including the accessible address of the content.

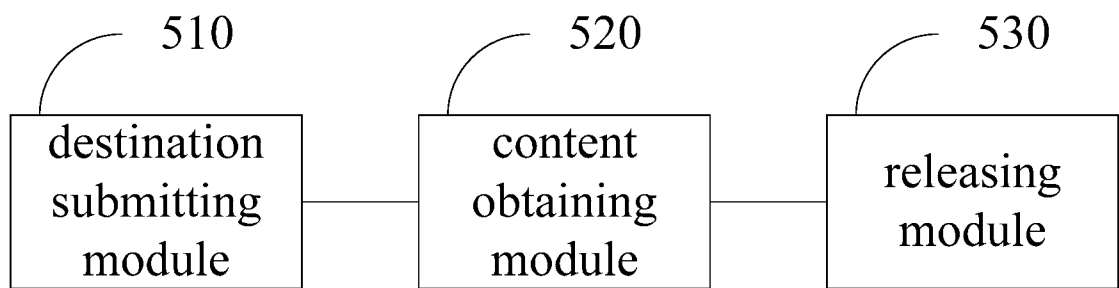
15. A system, comprising a server of any of claims 7-12 and a client of claim 14.

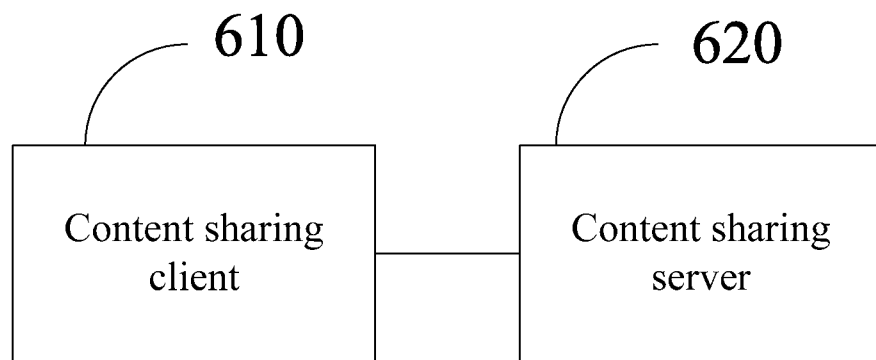
**Fig. 1**

**Fig. 2**

**Fig. 3**

**Fig. 4**

**Fig. 5**

**Fig. 6**

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2014/073929

A. CLASSIFICATION OF SUBJECT MATTER

H04L 29/08(2006.01)i

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)

H04L; G06F

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)

CPRSABS,CNTEXT,CNKI,DWPI:share,address,process,clear,filter,content,Internet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN 102271165 A (CHINA TELECOM CO LTD ET AL.) 07 December 2011 (2011-12-07) description, paragraphs [0043] to [0074], and figures 2-6	1-15
A	CN 102984287 A (QINGDAO HISENSE NETWORK TECHNOLOGY CO LT) 20 March 2013 (2013-03-20) the whole document	1-15
A	CN 102891897 A (BEIJING QIHOO SCI&TECHNOLOGY CO LTD ET AL.) 23 January 2013 (2013-01-23) the whole document	1-15

☐ 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	“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
“E”	earlier application or patent but published on or after the international filing date	“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
“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)	“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
“O”	document referring to an oral disclosure, use, exhibition or other means	“&”	document member of the same patent family
“P”	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

07 May 2014

Date of mailing of the international search report

09 July 2014

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/CN2014/073929

Patent document cited in search report		Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)	
CN	102271165 A	07 December 2011	CN	102271165B	12 February 2014
CN	102984287 A	20 March 2013	None		
CN	102891897 A	23 January 2013	None		