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(54) **EXCLUDING CONTENT DURING SCREENSHARING SESSION**

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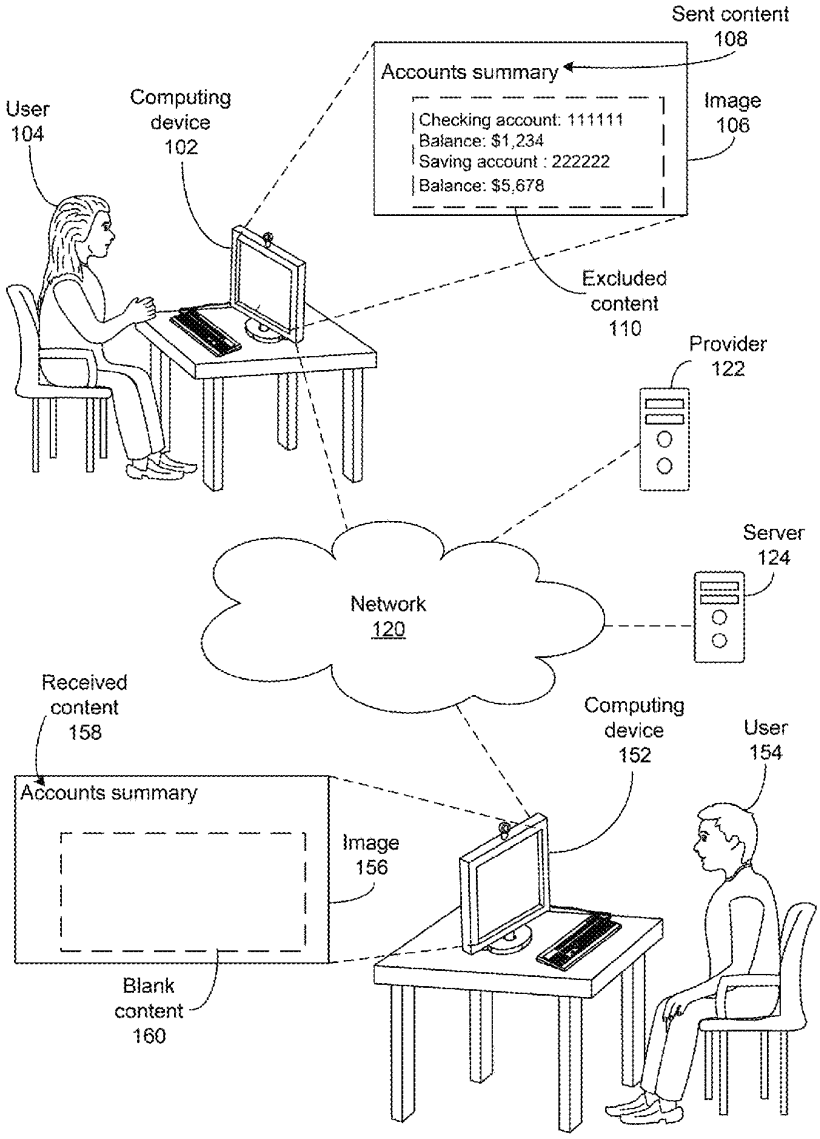
(57) **ABSTRACT**

A method performed by a computing device comprises, during a screensharing session, determining a capture value of a first element and a capture value of a second element, wherein the capture value of the first element is determined by a provider and the capture value of the second element is determined by the provider, the provider having provided the first element to the computing device and having provided the second element to the computing device; based on the capture value of the first element being shareable, sending content of the first element to the screensharing session; and based on the capture value of the second element being not sharable, excluding content of the second element from the screensharing session.



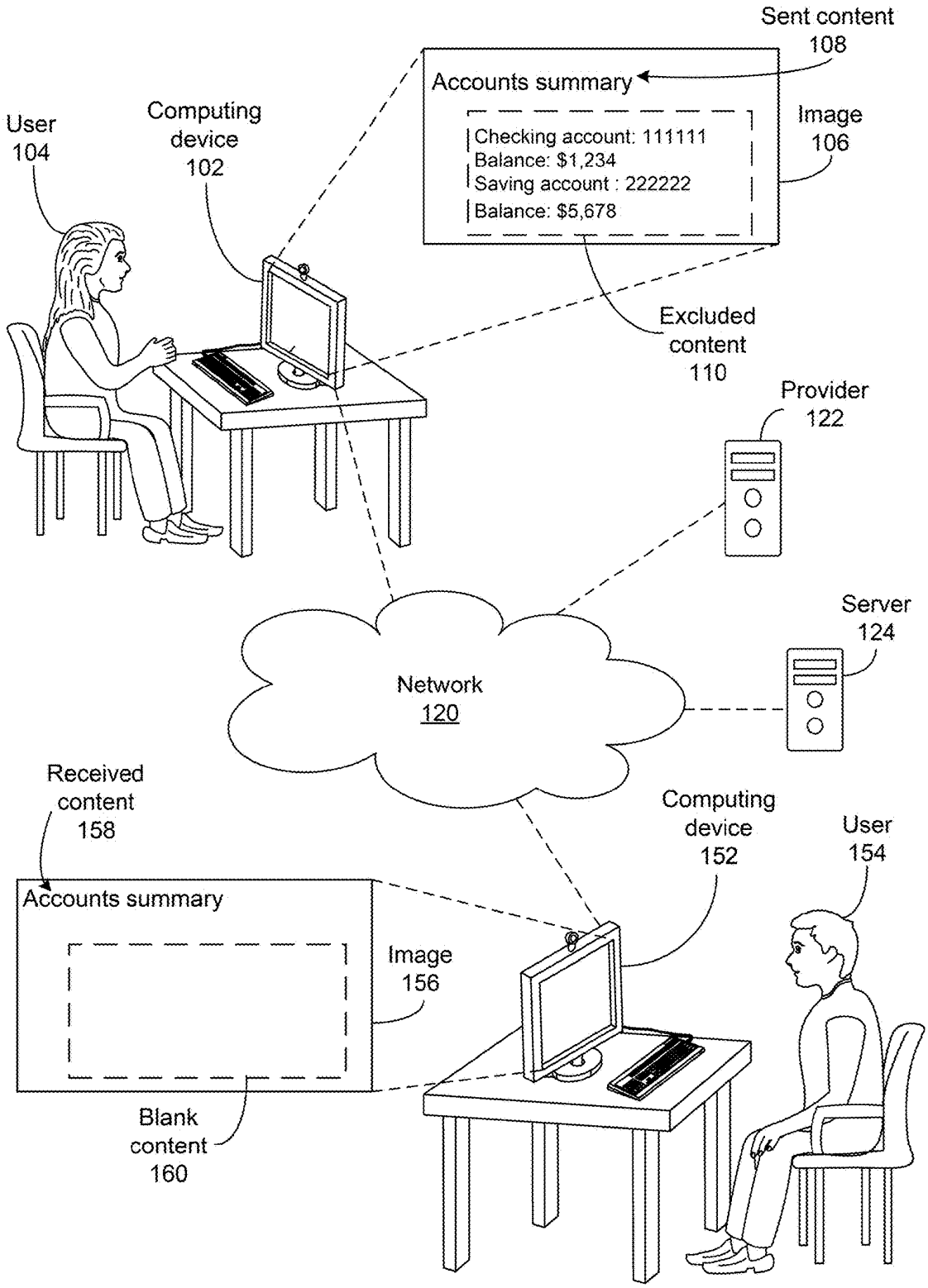

Sent content
108
Accounts summary
Checking account: 111111
Balance: $1,234
Saving account : 222222
Balance: $5,678
Image
106
User
104
Computing
device
102
Excluded
content
110
Provider
122
Server
124
Network
120
Received
content
158
Accounts summary
Image
156
Blank
content
160
Computing
device
152
User
154

FIG. 1

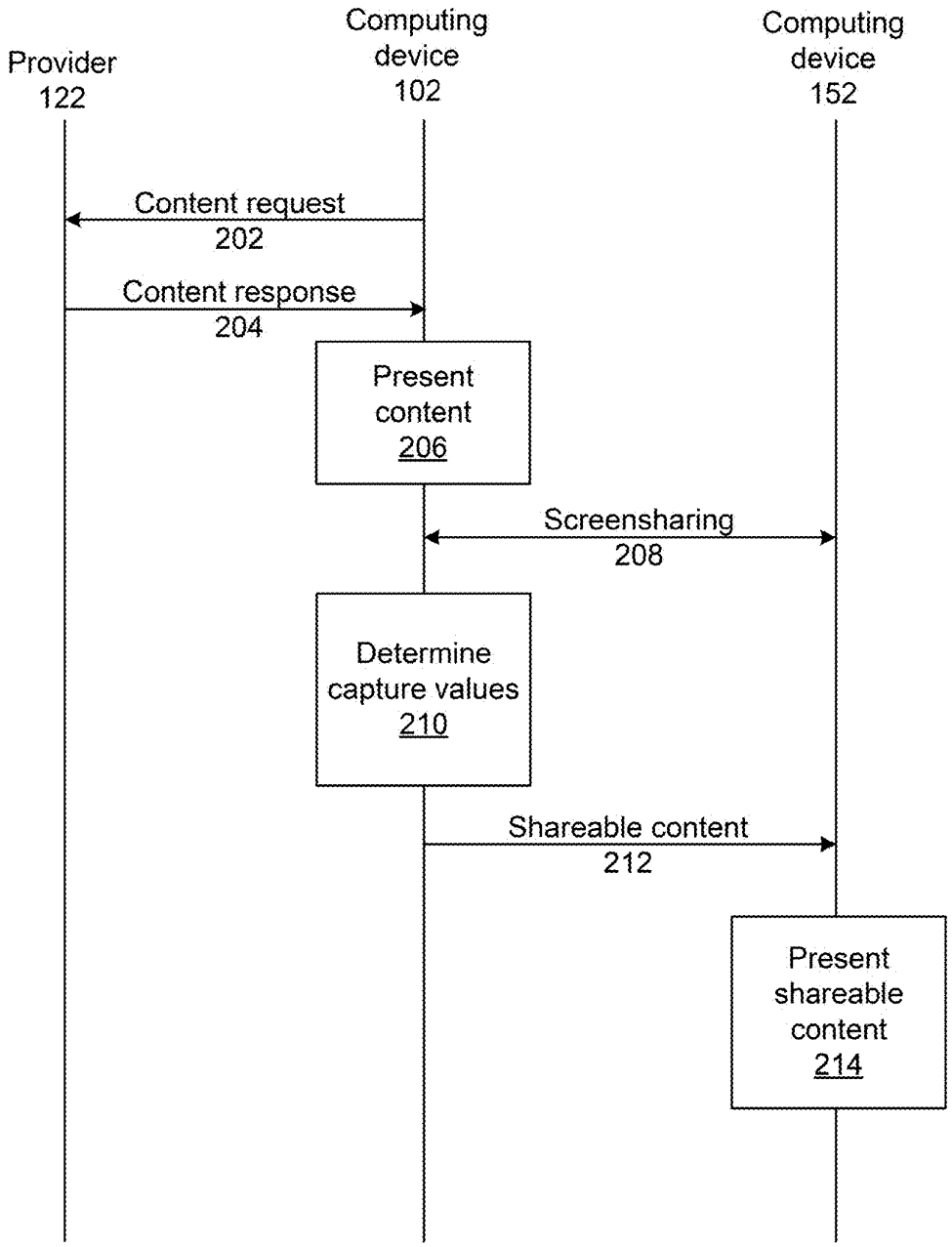

Provider
122
Computing
device
102
Computing
device
152
Content request
202
Content response
204
Present
content
206
Screensharing
208
Determine
capture values
210
Shareable content
212
Present
shareable
content
214

FIG. 2

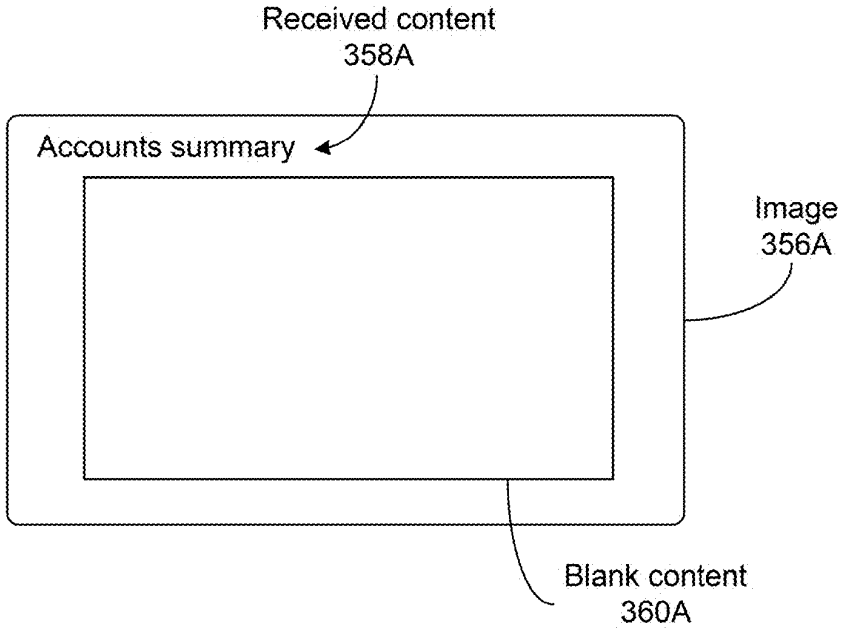

Received content
358A
Accounts summary
Image
356A
Blank content
360A

FIG. 3A

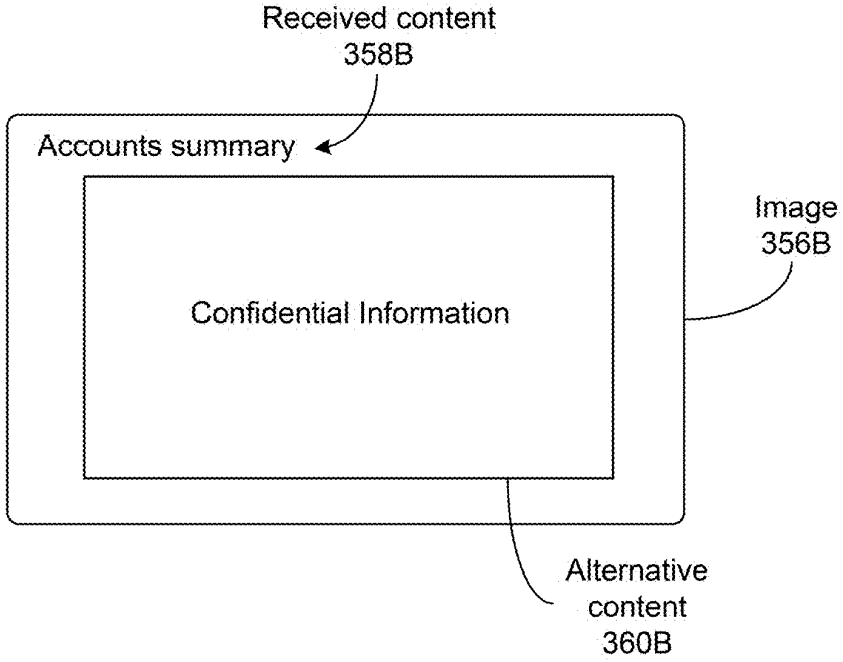
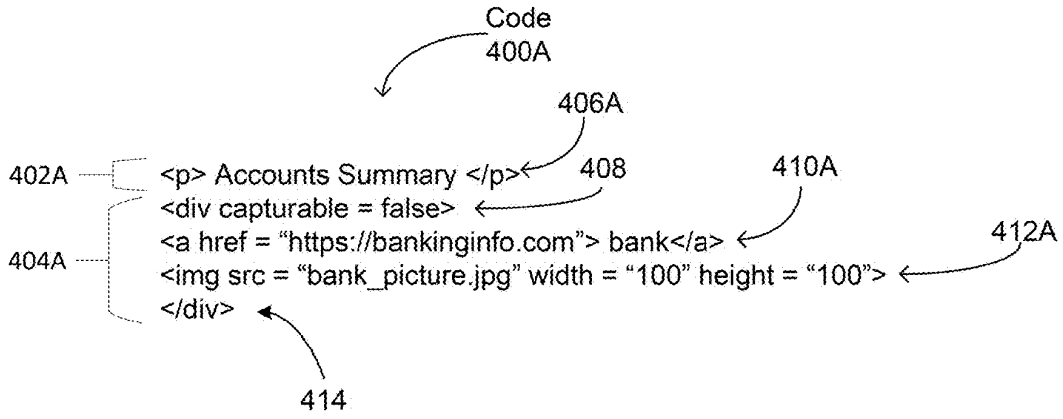

Received content
358B
Accounts summary
Confidential Information
Image
356B
Alternative
content
360B

FIG. 3B


Code
400A
406A
402A
 Accounts Summary
408
410A

 bank
404A
412A
<img src = "bank_picture.jpg" width = "100" height = "100">

414

FIG. 4A

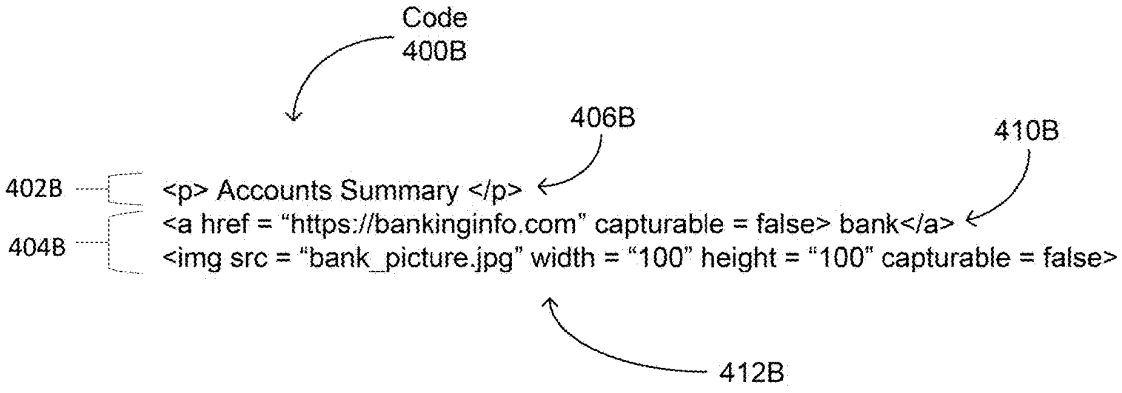

Code
400B
406B
410B
402B
 Accounts Summary
 bank
404B
<img src = "bank_picture.jpg" width = "100" height = "100" capturable = false>
412B

FIG. 4B

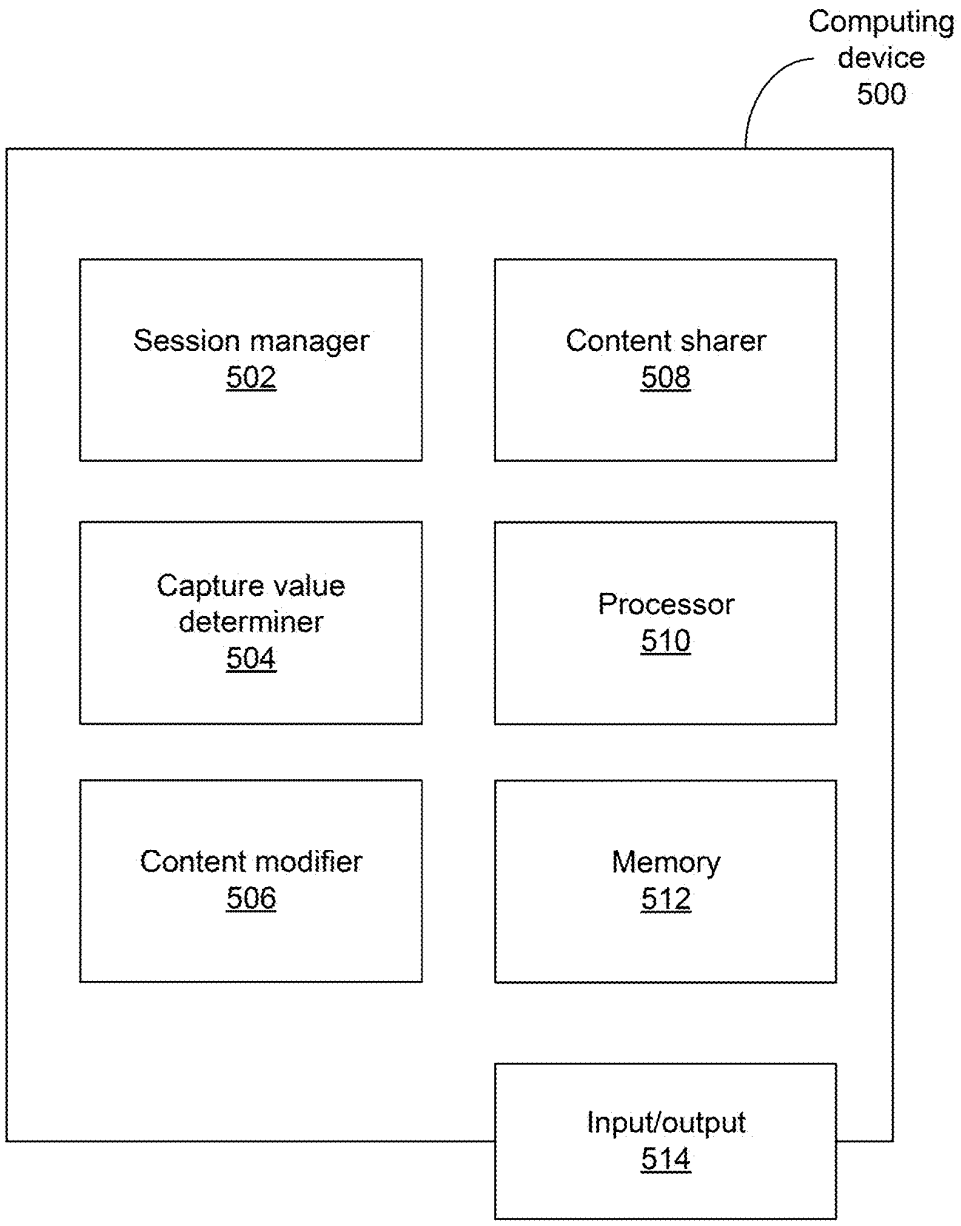

Computing device 500
Session manager 502
Content sharer 508
Capture value determiner 504
Processor 510
Content modifier 506
Memory 512
Input/output 514

FIG. 5

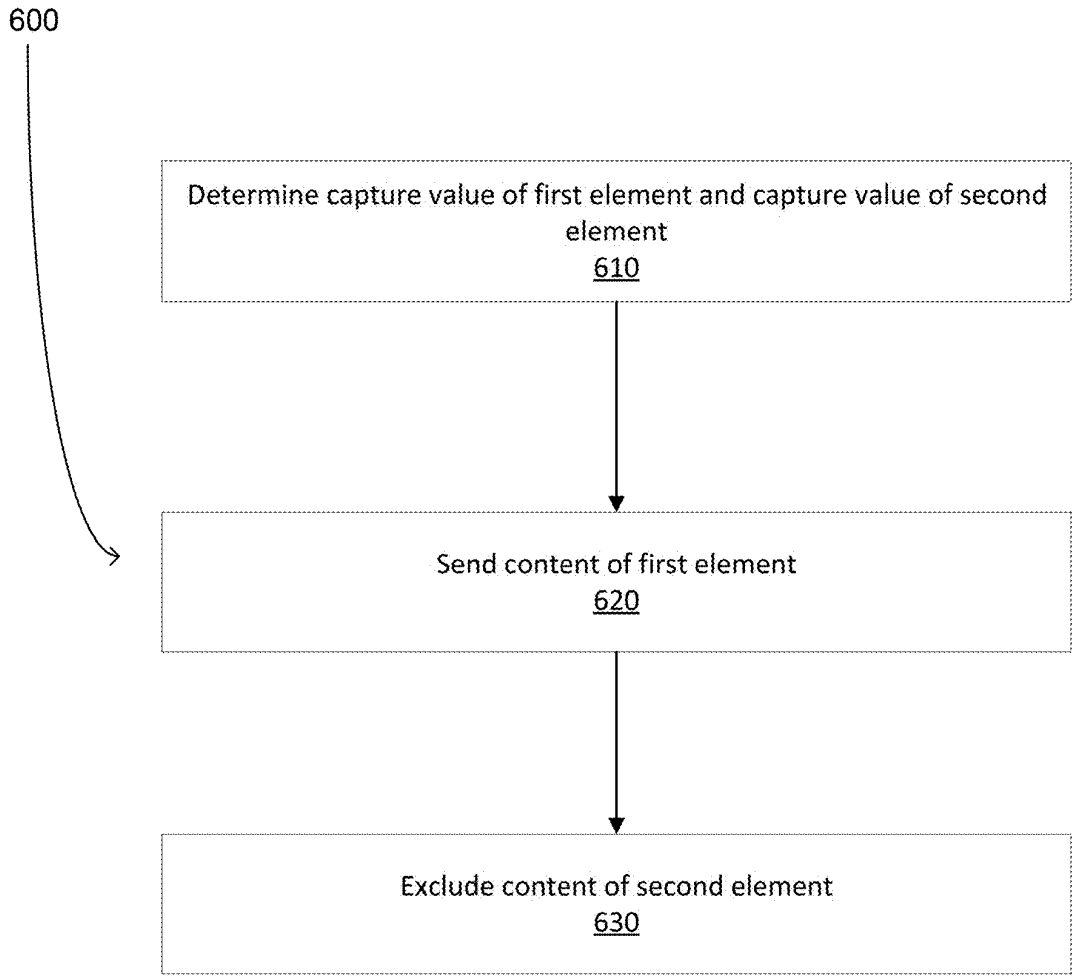

600
Determine capture value of first element and capture value of second element
610
Send content of first element
620
Exclude content of second element
630

FIG. 6

EXCLUDING CONTENT DURING SCREENSHARING SESSION

BACKGROUND

[0001] A user may share content displayed on a computing device associated with the user during a screensharing session. However, some of the content may contain information that may potentially be harmful to share.

SUMMARY

[0002] During a screensharing session, a computing system determines whether content should be shared. The computing system can determine whether content should be shared on an element-by-element basis. The computing system can determine capture values of the elements. For an element that has a capture value of shareable, the computing system can send content of the element to a screensharing session. For an element that has a capture value of not shareable, the computing system can exclude content of the element from the screensharing session. The capture value of an element can be determined by a content owner (or provider) to prevent unintentional or accidental disclosure of sensitive content to other users.

[0003] According to an example, a method performed by a computing device comprises, during a screensharing session, determining a capture value of a first element and a capture value of a second element, wherein the capture value of the first element is determined by a provider and the capture value of the second element is determined by the provider, the provider having provided the first element to the computing device and having provided the second element to the computing device; based on the capture value of the first element being shareable, sending content of the first element to the screensharing session; and based on the capture value of the second element being not sharable, excluding content of the second element from the screensharing session.

[0004] According to an example, a non-transitory computer-readable medium comprising instructions stored thereon. When executed by at least one processor, the instructions are configured to cause a computing device to, during a screensharing session, determine a capture value of a first element and a capture value of a second element, wherein the capture value of the first element is determined by a provider and the capture value of the second element is determined by the provider, the provider having provided the first element to the computing device and having provided the second element to the computing device; based on the capture value of the first element being shareable, send content of the first element to the screensharing session; and based on the capture value of the second element being not sharable, exclude content of the second element from the screensharing session.

[0005] A computing device comprises at least one processor and a non-transitory computer-readable medium comprising instructions stored thereon. When executed by the at least one processor, the instructions are configured to cause the computing device to, during a screensharing session, determine a capture value of a first element and a capture value of a second element, wherein the capture value of the first element is determined by a provider and the capture value of the second element is determined by the provider, the provider having provided the first element to the computing device and having provided the second element to the computing device; based on the capture value of the first element being shareable, send content of the first element to the screensharing session; and based on the capture value of the second element being not sharable, exclude content of the second element from the screensharing session.

[0006] The details of one or more implementations are set forth in the accompanying drawings and the description below. Other features will be apparent from the description and drawings, and from the claims.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] FIG. **1** shows a first computing device and a second computing device during a screensharing session according to an implementation.

[0008] FIG. **2** is a timing diagram showing messages exchanged between, and actions performed by, the first computing device and the second computing device during the screensharing session.

[0009] FIGS. **3**A and **3**B show examples of images from which content that is not shareable is excluded.

[0010] FIGS. **4**A and **4**B show code for elements with capture values.

[0011] FIG. **5** is a block diagram of a computing device.

[0012] FIG. **6** is a flowchart of an example method for using capture values of content during a screensharing session, according to an implementation.

[0013] Like reference numbers refer to like elements.

DETAILED DESCRIPTION

[0014] During a screensharing session, content presented by a display of a first computing device can be sent to a second computing device for presentation on a display of the second computing device. A technical problem with sending the content presented by the display is that the content, sent as images to the second device, may contain sensitive information, such as financial information, personal information, trade secret information, etc. A technical solution to this technical problem is to provide a capture value for elements in the content that controls information included in the images that are generated for screensharing. The content provider can assign the capture value for the elements in the content. The first computing device can determine capture values of elements that are subject to a screenshare operation. For elements with capture values of sharable, the first computing device can send content to the second computing device and/or screensharing session. For elements with capture values of not shareable, the first computing device can exclude the content from the screensharing session. A technical benefit of this technical solution is protecting sensitive content on an element-by-element basis.

[0015] FIG. **1** shows a first computing device **102** and a second computing device **152** during a screensharing session. A first user **104** of the first computing device **102** can establish a screensharing session with a second user **154** of the second computing device **152**. The first computing device **102** and the second computing device **152** can communicate with each other via a network **120**. The network **120** can include an infrastructure for computing devices to communicate with each other, such as the Internet. In some examples, the first computing device **102** and the second computing device **152** communicate with each other directly on a peer-to-peer basis to facilitate the screen-

sharing session. In some examples, the first computing device **102** and the second computing device **152** communicate with each other via a server **124** that facilitates the screensharing session.

[0016] The first computing device **102** can receive content for presentation to the first user **104**. The first computing device **102** can receive the content independent of the screensharing session. In some examples, the content is a webpage for rendering and presentation by a browser executing on the first computing device **102**. In some examples, the content includes HyperText Markup Language (HTML) content for rendering and presentation by a browser executing on the first computing device **102**. The first computing device **102** can receive the content from a provider **122**. The provider **122** can provide application content to the first computing device **102**. The provider **122** can include, for example, a server that maintains a website and sends the content to the first computing device **102** via the network **120**. The application content can include elements, such as HTML elements, for presentation on the display of the first computing device **102**. The elements can include attributes. The attributes can have values. One of the attributes can be a capture attribute represented by a capture value. The capture value indicates whether the content is to be shared during a screensharing session. If the capture value is shareable, then the first computing device **102** will share and/or send (provide) the content of the element during the screensharing session. If the capture value is not sharable, then the first computing device **102** will exclude, and/or not send, the content of the element during the screensharing session.

[0017] FIG. **1** shows an image **106** representing content presented by the first computing device **102** to the first user **104**. The first computing device **102** generates and/or presents the image **106** based on at least two elements. The elements based on which the first computing device **102** generates and/or presents the image **106** can be markup language elements, such as HyperText Markup Language (HTML) elements. The first computing device **102** can generate and/or present sent content **108** based on a first element. The first computing device **102** can generate and/or present excluded content **110** based on a second element. In the example shown in FIG. **1**, the excluded content **110** is sensitive content (e.g. financial information) that the content owner deems sensitive content.

[0018] The screensharing session can include a screensharing request for the first computing device **102** to share application content with the second computing device **152**. In response to the screensharing request, the first computing device **102** can determine capture values of elements, such as the first element and the second element, based on which the image **106** is generated and/or presented to the first user **104**. Where the content is in a markup language, the browsing application may determine the capture values of elements.

[0019] In the example shown in FIG. **1**, the first computing device **102** determines that the capture value of the first element is shareable. Based on the capture value of the first element being shareable, the first computing device **102** sends content of the first element to the screensharing session and/or to the second computing device **152**. In the example shown in FIG. **1**, the first computing device **102** determines that the capture value of the second element is not shareable. Based on the capture value of the second element being not shareable, the first computing device **102** excludes content of the second element from the screensharing session and/or from the second computing device **152**. In some examples, excluding content of an element includes replacing, in content sent to the second computing device **152**, the content with blank content, such as an empty rectangle or a rectangle filled with a predetermined color. In some examples, excluding content of an element includes modifying the content sent to the second computing device **152** by removing the content (such as text or images) and replacing the content with predetermined text (such as, "Confidential Information"), such as a browser rendering blocking text in place of the content.

[0020] The second computing device **152** generates and/or presents an image **156** to the second user **154** based on content received from the first computing device **102**. In the example shown in FIG. **1**, the second computing device **152** generates and/or presents, within the image **156**, received content **158** based on the content of the first element that the first computing device **102** sent and/or shared. The received content **158** corresponds to the sent content **108**. Based on the first computing device **102** not sending and/or sharing the content of the second element based on which the excluded content **110** was generated and/or presented, the second computing device **152** does not generate and/or present content corresponding to the second element. In some examples, the second computing device **152** generates and/or presents blank content **160** in place of the content of the second element. Examples of blank content **160** are shown in FIGS. **3**A and **3**B.

[0021] FIG. **2** is a timing diagram showing messages exchanged between, and actions performed by, the first computing device **102** and the second computing device **152** during the screensharing session. The first computing device **102** can send a content request **202** to the provider **122**, i.e., the content provider or content owner. The content request **202** can be a markup language request associated with a resource location, such as a Universal Resource Locator (URL). The provider **122** can respond to the content request **202** by sending a content response **204** to the first computing device **102**. The content response **204** can include content associated with an element, such as a markup language (e.g., HTML) element. The content response **204** can be a markup language response. In some examples, the content response **204** includes multiple elements, such as elements based on which the first computing device **102** generates and/or presents the sent content **108** and the excluded content **110**.

[0022] Based on receiving the content response **204**, the first computing device **102** can present content (**206**) to the first user **104**. The first computing device **102** can present the content (**206**) by, for example, generating an image, such as the image **106**, and presenting the image on a display included in the first computing device **102**.

[0023] The first computing device **102** and the second computing device **152** may be engaged in a screensharing session. The screensharing session can include the first computing device **102** sharing screen content with the second computing device **152**. Sharing screen content with the second computing device **152** can include sending images and/or content displayed by the display of the first computing device **102** to the second computing device **152**.

[0024] The first computing device **102** and second computing device **152** can establish a screensharing session **208**. In some examples, the screensharing session **208** can

include the first computing device **102** determining to send screenshots and/or images presented by a display of the first computing device to the second computing device **152** based on the status and/or existence of the screensharing session. The screensharing session can include the first computing device sharing and/or sending a live video feed to the second computing device **152**, with at least a portion of the live video feed including at least a portion of content presented to the first user **104** by the display of the first computing device **102**. In some examples, the first computing device **102** can send screenshots and/or images presented by a display of the first computing device to the second computing device **152** in response to the first computing device **102** receiving a screensharing request from the second computing device **152**. The screensharing request can be a request for the first computing device **102** to send, to the second computing device **152**, images and/or content displayed by the display of the first computing device **102**. A browser executing on the first computing device **102** can detect the screensharing request.

[0025] The browser executing on the first computing device **102** can, during the screensharing session **208**, determine capture values (**210**) of elements based on which the first computing device **102** generated an image (such as the image **106**) and/or presented content. The first computing device **102** can, for example, determine that a capture value of a first element (such as an element based on which the sent content **108** was generated) is shareable and determine that capture value of a second element (such as the element based on which the excluded content **110** was generated) is not shareable. Elements which have a capture value of shareable can be considered shareable content. Elements which have a capture value of not shareable can be considered not shareable content and/or excluded content. Elements which do not have a capture value (i.e. the capture value is not included in the element) can be considered shareable content.

[0026] In some examples, the first computing device **102** can provide a warning to the first user **104** relating to an element for which the capture value is not shareable. The first computing device **102** can output an audible alert or a visual message. The first computing device **102** can, for example, highlight or otherwise identify the content for which the capture value is not shareable and request the user of the first computing device **102** to indicate whether the user desires to share the content. The first computing device **102** can then either share the content based on the user indicating a desire to share the content or exclude the content based on the user indicating a desire to not share the content. The user can indicate a desire to either share the content or not share the content by clicking buttons associated with sharing or not sharing the content, providing textual input associated with sharing or not sharing (or "Yes" or "No"), or providing spoken input, as non-limiting examples. In some examples, the user may not be provided with a way to override the capture value of an element. In some examples the user may be provided with a way to override the capture value of some elements and not others. In such implementations, the capture attribute may have a capture value and an override value. The override value may be a binary value that indicates whether the user can override (or not) the capture value.

[0027] The first computing device **102** can send the shareable content **212** to the second computing device **152**. Elements that have capture values of shareable can be included in the shareable content **212**. Elements that have capture values of not shareable can be excluded from the shareable content **212**. The shareable content **212** can also include an indication of excluded content. Based on the indication of excluded content in the shareable content **212**, the second computing device **152** can present an indication of excluded content, as shown in FIGS. **3**A and **3**B.

[0028] In some examples, a browser setting can determine whether to share content for which the capture value is not shareable. The browser executing on the first computing device **102** can receive input from the user **104** for the browser setting indicating whether to share content for which the capture value is not shareable. If the content has a capture value that is not shareable and the browser setting indicates not to share content for which the capture value is not shareable, then the first computing device will not share the content and/or will exclude the content. If the content has a capture value that is not shareable and the browser setting indicates to share content for which the capture value is not shareable, then the first computing device will share the content.

[0029] In response to receiving the shareable content **212**, the second computing device **152** can present the shareable content (**214**). Presenting the shareable content (**214**) can include generating and/or presenting an image on a display included in the second computing device **152** based on the elements with shareable content that are received from the first computing device **102**. The image **156** shown in FIG. **1** is an example of shareable content (**214**).

[0030] FIGS. **3**A and **3**B show examples of images **356**A, **356**B from which content that is not shareable is excluded. The images **356**A, **356**B can be generated by the second computing device **152** based on content, such as shareable content **212**, received from the first computing device **102**. The images **356**A, **356**B are examples of the image **156** shown in FIG. **1**. Both of images **356**A, **356**B show received content **358**A, **358**B. The received content **358**A, **358**B can be based on an element that the first computing device **102** determined had a capture value of sharable.

[0031] In the example of FIG. **3**A, the image **356**A includes blank content **360**A. The blank content **360**A can include an empty space or a bounded but otherwise empty box. The blank content **360**A can correspond to an element that the first computing device **102** determined had a capture value of not shareable. The blank content **360**A can correspond to the excluded content **110** shown in FIG. **1**. The second computing device **152** can present the blank content **360**A based on the shareable content **212** including the indication of excluded content.

[0032] In the example of FIG. **3**B, the image **356**B includes alternative content **360**B. The alternative content **360**B includes an image or portion of an image generated and/or presented by the second computing device **152** in lieu of content for which the element had a capture value of not shareable. The content for which the element had a capture value of not shareable has been modified. The alternative content **360**B can include text or a symbol indicating that the content was not shared by the first computing device **102**. In the example of FIG. **3**B, the alternative content **360**B includes text, "Confidential Information." The second computing device **152** can present the alternative content **360**B based on the shareable content **212** including the indication of excluded content.

[0033] FIGS. **4**A and **4**B show code for elements with capture values. The code **400**A, **400**B can guide a computing device (such as the first computing device **102** or second computing device **152**) in presenting content for a user to view on a display of the computing device.

[0034] The code **400**A, **400**B can include a first element **402**A, **402**B that includes shareable content. In the examples shown in FIGS. **4**A and **4**B, the code **400**A, **400**B includes a first element **402**B. The first element **402**A, **402**B includes a paragraph **406**A, **406**B with the text, "Accounts Summary". The first element **402**A, **402**B is shareable based on the paragraph **406**A, **406**B lacking a capturable attribute. In some examples, the paragraphs **406**A, **406**B explicitly include a capturable attribute with a value of true, and are written as, " Accounts Summary capturable=true ".

[0035] In the example of FIG. **4**A, the code **400**A includes a second element **404**A that is sectioned or divided within the code **400**A. In the example of FIG. **4**A, the second element **404**A is sectioned or divided by an opening div tag **408** and a closing div tag **414**. In the example of FIG. **4**A, the opening div tag **408** includes the capturable attribute with a value of false. The capturable value of false indicates that the second element **404**A is not sharable.

[0036] The second element **404**A can include multiple lines of code. In the example shown in FIG. **4**A, the second element **404**A includes the opening div tag **408**, an address **410**A, a source **412**A, and the closing div tag **414**. The address **410**A can specify an address that content generated based on the second element **404**A can link to. In some examples, the address **410**A is an HTML href attribute that specifies a URL for a link in a page generated based on the second element **404**A.

[0037] In some examples, the source **412**A is a src attribute specifying the image to be displayed. In some examples, source **412**A includes a size attribute that specifies a size of the image to be displayed. In some examples, the size attribute includes a width attribute that specifies a width of the image to be displayed and a height attribute that specifies a height of the image to be displayed.

[0038] In the example of FIG. **4**B, the lines of code within the second element **404**B each specify the value of the capturable attribute as false. The second element **404**B includes an address **410**B with similar features as the address **410**A and an additional attribute of a capture value of false and a source **412**B with similar features as the source **412**A and an additional attribute of a capture value of false.

[0039] FIG. **5** is a block diagram of a computing device **500**. The computing device **500** can determine whether to share or exclude content based on a capture value of an element that includes the content. The computing device **500** is an example of the first computing device **102**.

[0040] The computing device **500** can include a session manager **502**. The session manager **502** can manage a screensharing session with a remote computing device. The session manager **502** can establish a connection and/or session with the remote computing device. The session manager **502** can establish a path for communication with the remote computing device, such as peer-to-peer or via a server (such as the server **124** shown and described with respect to FIG. **1**). The session manager **502** can establish a beginning and end of the screensharing session.

[0041] The computing device **500** can include a capture value determiner **504**. The capture value determiner **504** can determine capture values of elements based on which the computing device **500** is displaying content. The capture value determiner **504** can determine whether the capture values are shareable, indicating that the content of the element can be shared with the remote computing device, or not shareable, indicating that the content of the element should not be shared with the remote computing device. In some examples, the capture value determiner **504** determines the capture value based on an attribute of the element, examples of which is shown and described with respect to FIGS. **4**A and **4**B. In some examples, the capture value determiner **504** determines the capture value by obtaining the value of the capture value from a tag for the element.

[0042] The computing device **500** can include a content modifier **506**. In some examples, the content modifier **506** modifies content of elements for which the capture value determiner **504** determines that the content is not shareable. The content modifier **506** can modify the content by replacing the content with predetermined text (such as "Confidential Information" in the example shown in FIG. **3**B) or symbols, or replacing the content with a blank image. In some examples, the content modifier **506** modifies the content by obscuring the content. Obscuring the content can include replacing the content with predetermined content such as blank content or blurring the content.

[0043] The computing device **500** can include a content sharer **508**. The content sharer **508** can share content, such as by sending the shareable content **212** in the example shown and described with respect to FIG. **2**, and/or by sending modified content in an example in which the content modifier **506** modifies content that the capture value determiner **504** determines should not be shared.

[0044] The computing device **500** can include at least one processor **510**. The at least one processor **510** can execute instructions, such as instructions stored in at least one memory device **512**, to cause the computing device **500** to perform any combination of methods, functions, and/or techniques described herein.

[0045] The computing device **500** can include at least one memory device **512**. The at least one memory device **512** can include a non-transitory computer-readable storage medium. The at least one memory device **512** can store data and instructions thereon that, when executed by at least one processor, such as the processor **510**, are configured to cause the computing device **500** to perform any combination of methods, functions, and/or techniques described herein. Accordingly, in any of the implementations described herein (even if not explicitly noted in connection with a particular implementation), software (e.g., processing modules, stored instructions) and/or hardware (e.g., processor, memory devices, etc.) associated with, or included in, the computing device **500** can be configured to perform, alone, or in combination with another computing device such as or a server in communication with the computing device **500**, any combination of methods, functions, and/or techniques described herein.

[0046] The computing device **500** may include at least one input/output node **514**. The at least one input/output node **514** may receive and/or send data, such as from and/or to, another computer, and/or may receive input and provide output from and to a user such as the user **104**. The input and output functions may be combined into a single node, or may be divided into separate input and output nodes. The input/output node **514** can include, for example, a microphone, a camera, an inertial measurement unit (IMU), a

display, a speaker, one or more buttons, and/or one or more wired or wireless interfaces for communicating with other computing devices.

[0047] FIG. **6** is a flowchart of an example method **600** for using capture values of content during a screensharing session, according to an implementation. The method **60** can include determining a capture value of a first element and a capture value of a second element (**610**). Determining the capture value of the first element and the capture value of the second element (**610**) can include, during a screensharing session, determining the capture value of the first element and the capture value of the second element. The capture value of the first element can be determined by a provider and the capture value of the second element can be determined by the provider. The provider may have provided the first element to the computing device and provided the second element to the computing device. The method **600** can include sending content of the first element (**620**). Sending content of the first element (**620**) can include, based on the capture value of the first element being shareable, sending content of the first element to the screensharing session. The method **600** can include excluding content of the second element (**630**). Excluding content of the second element (**630**) can include, based on the capture value of the second element being not sharable, excluding content of the second element from the screensharing session.

[0048] In some examples, the method **600** is performed by a browser and the provider of the content is a webpage.

[0049] In some examples, excluding content of the second element includes the browser modifying a rendering of the content of the second element to obscure the content.

[0050] In some examples, excluding content of the second element includes the browser rendering blocking text in place of the content of the second element.

[0051] In some examples, the capture value of the second element includes a value of an attribute set by the provider.

[0052] In some examples, the value of the attribute is obtained from a tag for the second element.

[0053] In some examples, the method further includes, in response to determining that the capture value of the second element is not shareable, displaying a warning relating to the second element.

[0054] Implementations of the various techniques described herein may be implemented in digital electronic circuitry, or in computer hardware, firmware, software, or in combinations of them. Implementations may be implemented as a computer program product, i.e., a computer program tangibly embodied in an information carrier, e.g., in a machine-readable storage device, for execution by, or to control the operation of, data processing apparatus, e.g., a programmable processor, a computer, or multiple computers. A computer program, such as the computer program(s) described above, can be written in any form of programming language, including compiled or interpreted languages, and can be deployed in any form, including as a stand-alone program or as a module, component, subroutine, or other unit suitable for use in a computing environment. A computer program can be deployed to be executed on one computer or on multiple computers at one site or distributed across multiple sites and interconnected by a communication network.

[0055] Method steps may be performed by one or more programmable processors executing a computer program to perform functions by operating on input data and generating output. Method steps also may be performed by, and an apparatus may be implemented as, special purpose logic circuitry, e.g., an FPGA (field programmable gate array) or an ASIC (application-specific integrated circuit).

[0056] Processors suitable for the execution of a computer program include, by way of example, both general and special purpose microprocessors, and any one or more processors of any kind of digital computer. Generally, a processor will receive instructions and data from a read-only memory or a random access memory or both. Elements of a computer may include at least one processor for executing instructions and one or more memory devices for storing instructions and data. Generally, a computer also may include, or be operatively coupled to receive data from or transfer data to, or both, one or more mass storage devices for storing data, e.g., magnetic, magneto-optical disks, or optical disks. Information carriers suitable for embodying computer program instructions and data include all forms of non-volatile memory, including by way of example semiconductor memory devices, e.g., EPROM, EEPROM, and flash memory devices; magnetic disks, e.g., internal hard disks or removable disks; magneto-optical disks; and CD-ROM and DVD-ROM disks. The processor and the memory may be supplemented by, or incorporated in special purpose logic circuitry.

[0057] To provide for interaction with a user, implementations may be implemented on a computer having a display device, e.g., a cathode ray tube (CRT) or liquid crystal display (LCD) monitor, for displaying information to the user and a keyboard and a pointing device, e.g., a mouse or a trackball, by which the user can provide input to the computer. Other kinds of devices can be used to provide for interaction with a user as well; for example, feedback provided to the user can be any form of sensory feedback, e.g., visual feedback, auditory feedback, or tactile feedback; and input from the user can be received in any form, including acoustic, speech, or tactile input.

[0058] Implementations may be implemented in a computing system that includes a back-end component, e.g., as a data server, or that includes a middleware component, e.g., an application server, or that includes a front-end component, e.g., a client computer having a graphical user interface or a browser through which a user can interact with an implementation, or any combination of such back-end, middleware, or front-end components. Components may be interconnected by any form or medium of digital data communication, e.g., a communication network. Examples of communication networks include a local area network (LAN) and a wide area network (WAN), e.g., the Internet.

[0059] While certain features of the described implementations have been illustrated as described herein, many modifications, substitutions, changes and equivalents will now occur to those skilled in the art. It is, therefore, to be understood that the appended claims are intended to cover all such modifications and changes as fall within the true spirit of the embodiments of the invention.

1. A method performed by a computing device, the method comprising:

during a screensharing session, determining a capture value of a first element and a capture value of a second element, wherein the capture value of the first element is included in code for presenting the first element and the capture value of the second element is included in code for presenting the second element;

based on the capture value of the first element being shareable, sending content of the first element to the screensharing session; and

based on the capture value of the second element being not sharable, excluding content of the second element from the screensharing session.

2. The method of claim **1**, wherein the method is performed by a browser and the code is markup language code for rendering a webpage.

3. The method of claim **2**, wherein excluding content of the second element includes the browser modifying a rendering of the content of the second element to obscure the content.

4. The method of claim **2**, wherein excluding content of the second element includes the browser rendering blocking text in place of the content of the second element.

5. The method of claim **1**, wherein the capture value of the second element includes a value of an attribute included in the code.

6. The method of claim **5**, wherein the value of the attribute is obtained from a tag for the second element.

7. The method of claim **1**, further comprising, in response to determining that the capture value of the second element is not shareable, displaying a warning relating to the second element.

8. A non-transitory computer-readable medium comprising instructions stored thereon that, when executed by at least one processor, are configured to cause a computing device to:

during a screensharing session, determine a capture value of a first element and a capture value of a second element, wherein the capture value of the first element is included in code for presenting the first element and the capture value of the second element is included in code for presenting the second element;

based on the capture value of the first element being shareable, send content of the first element to the screensharing session; and

based on the capture value of the second element being not sharable, exclude content of the second element from the screensharing session.

9. The non-transitory computer-readable medium of claim **8**, wherein the code is markup language code for rendering a webpage.

10. The non-transitory computer-readable medium of claim **9**, wherein excluding content of the second element includes modifying a rendering of the content of the second element to obscure the content.

11. The non-transitory computer-readable medium of claim **9**, wherein excluding content of the second element includes rendering blocking text in place of the content of the second element.

12. The non-transitory computer-readable medium of claim **8**, wherein the capture value of the second element includes a value of an attribute included in the code.

13. The non-transitory computer-readable medium of claim **12**, wherein the value of the attribute is obtained from a tag for the second element.

14. The non-transitory computer-readable medium of claim **8**, wherein the instructions are further configured to cause the computing device to, in response to determining that the capture value of the second element is not shareable, display a warning relating to the second element.

15. A computing device comprising:

at least one processor; and

a non-transitory computer-readable medium comprising instructions stored thereon that, when executed by the at least one processor, are configured to cause the computing device to:

during a screensharing session, determine a capture value of a first element and a capture value of a second element, wherein the capture value of the first element is included in code for presenting the first element and the capture value of the second element is included in code for presenting the second element;

based on the capture value of the first element being shareable, send content of the first element to the screensharing session; and

based on the capture value of the second element being not sharable, exclude content of the second element from the screensharing session.

16. The computing device of claim **15**, wherein the code is markup language code for rendering a webpage.

17. The computing device of claim **16**, wherein excluding content of the second element includes modifying a rendering of the content of the second element to obscure the content.

18. The computing device of claim **16**, wherein excluding content of the second element includes rendering blocking text in place of the content of the second element.

19. The computing device of claim **15**, wherein the capture value of the second element includes a value of an attribute included in the code.

20. The computing device of claim **19**, wherein the value of the attribute is obtained from a tag for the second element.

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