

During message composition, a user may also attach data files (*e.g.*, images, audio files, video files, *etc.*) to a message, but such files are not saved in a webclient during message composition and are not sent to a mail server until the user sends the message or manually saves a draft of the message. Upon a failure of connectivity to the HTTP server servicing the webclient during message composition, the attachment data may be lost.

SUMMARY

[0004a] According to a first aspect of the present invention, there is provided a system, comprising: a memory comprising instructions; and a processor coupled to the memory, wherein the processor, when executing the instructions, effectuates operations comprising: receiving a request to access a server from a webclient; establishing a persistent connection with the server; generating identification information for the webclient; receiving a notification associated with the webclient from the server; storing the notification, wherein storing the notification comprises storing the notification in a storage device, and storing storage device location information for the notification and the identification information in a database record; and transmitting the notification to the webclient in response to a subsequent communication received from the webclient.

[0004b] According to a second aspect of the present invention, there is provided a computer-implemented method comprising: receiving, at a hypertext transfer protocol (HTTP) server from a webclient, a request to access a server; determining, by the HTTP server querying a database, that a notification associated with the webclient has been stored by a second HTTP server; determining storage device location information for the notification based on identification information for the webclient, wherein the request to access the server comprises the identification information; retrieving the notification by the HTTP server; and transmitting the notification to the webclient.

[0004c] According to a third aspect of the present invention, there is provided a non-transitory computer-readable storage medium comprising computer-executable instructions, which when executed by a processor, cause a processor to effectuate operations comprising: receiving a request to access a server from a webclient; establishing a persistent connection with the server; generating identification information for the webclient; receiving a notification associated with the webclient from the server; storing the notification, wherein

storing the notification comprises storing the notification and the identification information in a database record; and transmitting the notification to the webclient in response to a subsequent communication received from the webclient.

BRIEF DESCRIPTION OF DRAWINGS

[0005] Throughout the drawings, reference numbers may be re-used to indicate correspondence between referenced elements. The drawings are provided to illustrate example embodiments described herein and are not intended to limit the scope of the disclosure.

[0006] FIG. 1 illustrates an example environment in which embodiments of the invention may be implemented;

[0007] FIG. 2 illustrates another example environment in which embodiments of the invention may be implemented;

[0008] FIG. 3 depicts example operating procedures for an HTTP server according to embodiments;

[0009] FIG. 4 depicts example operating procedures for an HTTP server according to embodiments;

[0010] FIG. 5 depicts example operating procedures for an HTTP server according to embodiments;

[0011] FIG. 6 depicts example operating procedures for an HTTP server according to embodiments;

[0012] FIG. 7 depicts an example signal flow according to embodiments;

[0013] FIG. 8 depicts an example of a suitable computing environment in which embodiments described herein may be implemented;

[0014] FIG. 9 depicts a computing system diagram that illustrates one configuration for datacenter that implements computing services platform; and

[0015] FIG. 10 depicts an example computer architecture for a computer capable of executing the above-described software components.

WHAT IS CLAIMED IS:

1. A system, comprising:
 - a memory comprising instructions; and
 - a processor coupled to the memory, wherein the processor, when executing the instructions, effectuates operations comprising:
 - receiving a request to access a server from a webclient;
 - establishing a persistent connection with the server;
 - generating identification information for the webclient;
 - receiving a notification associated with the webclient from the server;
 - storing the notification, wherein storing the notification comprises storing the notification in a storage device, and storing storage device location information for the notification and the identification information in a database record; and
 - transmitting the notification to the webclient in response to a subsequent communication received from the webclient.
- ~~2. The system of claim 1, wherein the operations further comprise generating identification information for the webclient.~~
- ~~3. The system of claim 2, wherein storing the notification comprises storing the notification and the identification information in a database record.~~
- ~~4. The system of claim 2, wherein storing the notification comprises storing the notification in a storage device, and storing storage device location information for the notification and the identification information in a database record.~~
- ~~52.~~ The system of any preceding claim, wherein the operations further comprise deleting the notification after transmitting the notification to the webclient.
- ~~63.~~ The system of any preceding claim, wherein establishing a persistent connection with the server comprises instructing a notifications server to establish a persistent connection with the server.
- ~~74.~~ A computer-implemented method comprising:
 - receiving, at a hypertext transfer protocol (HTTP) server from a webclient, a request to access a server;

determining, by the HTTP server querying a database, that a notification associated with the webclient has been stored by a second HTTP server;

determining storage device location information for the notification based on identification information for the webclient, wherein the request to access the server comprises the identification information;

retrieving the notification by the HTTP server; and

transmitting the notification to the webclient.

~~8. The computer-implemented method of claim 7, further comprising determining storage device location information for the notification based on identification information for the webclient.~~

~~9. The computer-implemented method of claim 8, wherein the request to access the server comprises the identification information.~~

~~105.~~ The computer-implemented method of any of claims ~~7-94~~, further comprising deleting the notification after transmitting the notification to the webclient.

~~116.~~ The computer-implemented method of any of claims ~~7-104-5~~, wherein retrieving the notification comprises retrieving the notification from at least one of a storage device, a database, or a notifications server.

~~127.~~ The computer-implemented method of any of claims ~~7-114-6~~, further comprising providing access to the server for the webclient.

~~138.~~ A non-transitory computer-readable storage medium comprising computer-executable instructions, which when executed by a processor, cause a processor to effectuate operations comprising:

receiving a request to access a server from a webclient;

establishing a persistent connection with the server;

generating identification information for the webclient;

receiving a notification associated with the webclient from the server;

storing the notification, wherein storing the notification comprises storing the notification and the identification information in a database record; and

transmitting the notification to the webclient in response to a subsequent communication received from the webclient.

14. — The non-transitory computer-readable storage medium of claim 13, wherein the operations further comprise generating identification information for the web client.

15. — The non-transitory computer-readable storage medium of claim 14, wherein storing the notification comprises storing the notification and the identification information in a database record.