A computer-implemented method is provided for managing and sharing picture files. In one embodiment of the present invention, the method comprises providing a server platform and providing a datastore on the server platform for maintaining full resolution copies of the files shared between a plurality of sharing clients. A synchronization engine is provided on the server platform and is configured to send real-time updates to a plurality of sharing clients when at least one of the sharing clients updates or changes one of said files. A web interface may also be provided that allows a user to access files in the datastore through the use of a web browser.
### Photo Sharing:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client app</td>
<td>allows PC-to-PC sharing of high-resolution pictures</td>
</tr>
<tr>
<td>Buddy lists</td>
<td>and album group management</td>
</tr>
<tr>
<td>Videos and slideshows</td>
<td></td>
</tr>
<tr>
<td>Changes to albums</td>
<td>synchronized automatically across all devices</td>
</tr>
<tr>
<td>Collaborative annotation of pictures</td>
<td></td>
</tr>
<tr>
<td>Fast, easy access</td>
<td>to high-resolution images on your computer</td>
</tr>
<tr>
<td>Access thru a website</td>
<td>that mirrors the view from your desktop</td>
</tr>
<tr>
<td>Server backup of shared pictures</td>
<td>and application settings</td>
</tr>
<tr>
<td>Easy restoration</td>
<td>of app settings, preferences and data on any PC</td>
</tr>
</tbody>
</table>

**Figure 4**
METHOD AND APPARATUS FOR A FILE SHARING AND SYNCHRONIZATION SYSTEM

[0001] The present application claims the benefit of and priority to U.S. Provisional Patent Application No. 60/626,121 entitled “Method and Apparatus for a File Sharing and Synchronization System” and filed on Nov. 8, 2004, and is hereby incorporated by reference.

TECHNICAL FIELD

[0002] The field of the invention generally relates to data management, and more specifically, to methods of synchronizing data used in personal information managers or other programs, especially when the file or data is used or shared among multiple computing devices.

BACKGROUND

[0003] File sharing and data management, in general, is a problem today. With all of the various types of files on different devices such as personal computers, personal digital assistants, or cellular phones, the management of data in an efficient manner from device-to-device is a challenge for users.

[0004] In the context of data files in general, files worked on at one location by a user may not be accessible from a device at another location. For example, a user working at home may have files left there on a home computer that are not accessible from a computer at work. Data on one device may be lost because the user failed to regularly back-up the data files on the device. In other situations, short of forwarding each file or email to another account, switching accounts at an internet service providers may cause a user to lose their emails and other personal files resident on that ISP’s server. All of these problems with data portability, management, and access create inefficiencies for a user.

[0005] Some known systems have tried to address these issues. In the photo sharing context, websites such as Ofoto have allowed users to load files to the Ofoto website to share among multiple devices and multiple users. This does allow some access to images when the user is not at his/her home computer and to share photos with users at remote locations. The sharing of files, however, among multiple users is typically limited to low-resolution versions of the original images, and this sharing of lower quality files may cause a user difficulty in viewing the image. Additionally, there is no data persistence as the files on the server may be deleted after a certain period of inactivity. In systems where users use peer-to-peer sharing or email picture files to each other, images may be lost or hard to track down because the original email was lost or poorly organized among the users files. Additionally, dynamic updating of shared files is not present. The data or file is copied one time and is then static on the sharee’s system.

SUMMARY

[0006] The present invention provides solutions for at least some of the drawbacks discussed above. Specifically, some embodiments of the present invention provide a repository for a database of files shared in-sync, in real-time across multiple computers or computing devices. Embodiments of the present invention may provide an improved desktop or client application which offers easy sharing of files, automatic synchronization, file access from anywhere, and transparent backup. The present invention desires to be user centric (instead of computer or desktop centric) in the sense that the user can access the user’s data regardless of which physical computer or device the user is using. At least some of these and other objectives described herein will be met by embodiments of the present invention.

[0007] In one embodiment of the present invention, an improved data management system is provided. The system may comprise a server platform that enables synchronization, back-up, web access, and sharing of applications and data. This allows for a user’s data to be accessible from any PC or web browser. Changes to files, email, and/or calendar entries may be synchronized automatically across a user’s computers. The shared files will be updated including but not limited to new metadata, improvements to the files, or the like. The system may be configured for transparent back-up to a central server. Such systems give the user an ability to reproduce applications with the user’s settings and data on any computer with “one click”.

[0008] In another embodiment of the present invention, a native suite of client applications may be provided that allows for management and access of all the user’s data locally on the user’s hard drive. The client applications may be downloaded to reside on a user’s computer and provide access to a server platform that functions to synchronize files across multiple computing devices and allows for backup of the user’s files. The client applications may allow for management of personal email, photo files, video files, personal calendar entries or the like. A rich user interface is provided to make file access and management fast and easy. The client applications take the thinking out of data management and back-up by making it automatic and transparent.

[0009] In another embodiment of the present invention, a synchronization engine is provided that allows users to synchronize metadata on files on the system. By way of example and not limitation, this is particularly useful in the sharing of electronic photos where collaborative tagging of files by different users may be enabled by the invention to more accurately organize and search for picture files. The updating and synchronizing of metadata allows all users to benefit from more detailed metadata that may be provided by one user, which is then cascaded or pushed to picture files resident on other computers of other users that share the file.

[0010] In one aspect, the present invention allows for the persistence of data. The user can change computers, emails accounts, but the emails, photos, or other user files may persist and can be downloaded to the user’s system at different computer terminals or portable devices. These applications may be accessed through a web application if the user is on a public terminal or if the user is at a computer they do not own. The client may be also be downloaded to the computer. The present invention provides real-time, synchronized storage of a user’s files at a central server. This creates a backup for the user and no longer ties the user to any one particular physical device, so long as the user has access to the server.

[0011] A further understanding of the nature and advantages of the invention will become apparent by reference to the remaining portions of the specification and drawings.
BRIEF DESCRIPTION OF THE DRAWINGS

[0012] The accompanying drawings, which are included as part of the present specification, illustrate the presently preferred embodiment of the present invention and together with the general description given above and the detailed description of the preferred embodiment given below serve to explain and teach the principles of the present invention.

[0013] FIG. 1 illustrates a block diagram of an exemplary client server architecture, according to one embodiment of the present invention;

[0014] FIG. 2 illustrates a block diagram of an exemplary process for synchronizing a data object amongst the clients, according to one embodiment of the present invention;

[0015] FIG. 3 illustrates a block diagram of an exemplary architecture of a server platform, according to one embodiment of the present invention;

[0016] FIG. 4 illustrates a block diagram of an exemplary photo sharing application, according to one embodiment of the present invention;

[0017] FIG. 5 illustrates a block diagram of an exemplary synchronization architecture, according to one embodiment of the present invention; and

[0018] FIG. 6 illustrates a block diagram of an exemplary method is provided for aggregating messages from multiple email accounts into a single virtual account which is synchronized across multiple computers and devices, according to one embodiment of the present invention.

DETAILED DESCRIPTION

[0019] It is to be understood that both the foregoing general description and the following detailed description are exemplary and explanatory only and are not restrictive of the invention, as claimed. It may be noted that, as used in the specification and the appended claims, the singular forms “a”, “an” and “the” include plural referents unless the context clearly dictates otherwise. Thus, for example, reference to “a processor” may include multiple processors, and the like. References cited herein are hereby incorporated by reference in their entirety, except to the extent that they conflict with teachings explicitly set forth in this specification.

[0020] A “server” in a hardware configuration may be a computer such as a personal computer (PC) or other intelligent device. A server typically performs the bulk of the centralized or generalized tasks in the network and often has more memory, processing speed, and storage than the other device on the client-server network. Alternatively, the server may perform specialized tasks such as distributing electronic mail, data storage or printing. In the software arrangement, a “server” typically is a program that provides data, stores data, or provides some service to other programs to which the server is connected. A server may be a program with higher priority, greater memory, or greater capabilities compared to the other programs connected through the network.

[0021] A “client” in the software arrangement is generally a program used by a user. A client program typically makes use of data, processing, storage, or other resources of another program. A client may be used to communicate with a source or destination through a higher priority, more powerful, more capable or different program. The client may run on a computer such as a personal computer (PC), intelligent device, personal digital assistant (PDA) or workstation used by a user. In use, the client may carryout tasks in the process of which the client may request information or otherwise may use the resources of another object such as the server or another client to accomplish such tasks.

Synchronization

[0022] Referring now to FIGS. 1 and 2, one embodiment of a system for sharing files among multiple computing devices will now be described. One of the components of the present invention is that if a user has multiple computers, the data is kept in-sync and in real-time across all of the users computers connected to a network. If the user makes a change on one computer to the database or a file, the change is synchronized to the server and synchronized in real-time to the user’s other computers. This means that changes made on one computer are kept up-to-date on the server. The user can sit down at any of the user’s other computers (or at a set of computers defined by the user) and pick-up where the user left off. The user can also log onto a website and using a web application, pick-up where the user left off. This allows the user’s files to be accessed from any number of different workspaces. Additionally, it should be understood that clients that run on mobile devices may be used to access the user’s files.

[0023] FIG. 1 shows how computers or devices running clients 10, 12, 14, 16, and 18 may be coupled to each other via servers. FIG. 1 is a logical diagram of various clients communicating through a server platform. Client 10 and client 12 are able to hook into the wide area network 20 by means of logically connecting to a server 22. The wide area network 20 could be the Internet or an intranet or any other such wide area network or even a local area network. In like manner, client 14 has access to the wide area network 20 through server 24 and client 16 and client 18 have access through server 26. Although multiple servers are shown for this example, it should be understood that some embodiments may use only one server for the server platform to connect all sharing clients together.

[0024] The respective servers 22, 24, and 26 can communicate with one another directly or indirectly. The actual clients may not have the capability to communicate with any other entity besides the respective server to which they are connected but through the wide area network and the ability of the servers to communicate.

[0025] The net effect of such an arrangement allows any client to communicate with any other client through the transport connection between servers. This allows each client, regardless of the server to which it is connected, the ability to send messages to each other client over the wide area network 20. In this manner, clients may be given the ability to control replication as will be shown hereafter without regard to the type of server to which they may be connected or the client’s ability to directly communicate with another client. By way of example and not limitation, the servers 22, 24, and 26 may form a server platform and at least one of the servers may run a synchronization engine for distributing updates among different clients.
FIG. 2 is a schematic depicting the basic paradigm for synchronizing a data object amongst the clients. Referring to FIG. 2, changes or updates 30 from a sharing client 34 will be sent to the synchronization engine 32 which will forward or update a copy of a data object on each of the clients listed as part of the plurality of sharing clients 34 in order to synchronize that data object with other sharing clients. Each client preferably has the ability to communicate with a server and have the appropriate software running thereon. The sharing client 34 may operate to synchronize a local database on the local computer with a remote database, such as a server database on a datastore 40 in FIG. 3 that may be maintained on one server or a server farm. In this example, the server or server farm may be coupled to the network, and receive and transmit communications via a firewall, provided by a server farm provider, that implements well-known security features.

There are a variety of ways to notify the sharing clients 34 that a change has been made. In one embodiment of the present invention, if changes are made by one of the sharing clients 34 to a particular data object, an update message 30 is sent from the particular sharing client to the synchronization engine 32. The synchronization engine, in turn, will make the particular adjustment to the original or copy of the data object on the server and distribute the data object out to each of the sharing clients 34. The update message 30 may include instructions, such as a delete command to remove a particular data object or a modify command for modifying a particular data object. One way of representing a modification to an existing data object or the creation of a new data object is to include the actual data object in its modified form. Thus in some embodiments, updates are represented by sending a new copy of the entire object.

This two-way synchronization may occur in real-time which, for example and not limitation, may occur with the files being updated whenever an autosave occurs to the data or file being edited. The autosaved version may be updated to the server having the synchronization engine and then pushed out or cascaded to the sharing clients. Some sharing clients may be configured to accept updates to files that are not currently being edited on the local client, to prevent any conflicts. In some embodiments, the user may be prompted that there has been an update on a file they are editing locally and may accept or reject the changes. For changes to metadata, some embodiments of the present invention may allow simultaneous edits and merge them without notifying the user. If two users are editing separate fields, both changes will persist. If both users modify the same field, one of the changes will be silently discarded. For files, the user will be prompted to choose which version to keep.

Referring to FIG. 3, a schematic showing the architecture of a server platform according to the present invention will now be described. In this embodiment, the server platform may be at least one server 22 which has a synchronization engine 32 which communicates with sharing clients 34 running on devices which may be but are not limited to desktop computers and laptop computers. This allows updates received by the server to be updated to the sharing clients 34. The sharing clients 34 may also communicate with each other as indicated by arrow 36.

As seen in FIG. 3, the server 22 may include a datastore 40 that holds complete copies of the user files being shared. In a picture sharing environment, full resolution and complete copies of those files are also resident on the local computers of each sharing client 34. In other words, complete copies of files exist at the server level and at the local level for each of the computers or devices sharing the files. A database engine 42 and file management engine 44 may also be used to organize and access the files in the datastore 40.

FIG. 3 also shows that instead of using a sharing client 34, a web browser 50 may also be used to access the user files resident in the datastore 40 of the server 22. Although a web browser such as Microsoft Internet Explorer is shown in FIG. 3, it should be understood that a variety of other browsers such as Netscape, WAP browsers, or the like may also be used. In one embodiment of the present invention, the server 22 may include a web front end 52 that allows a user to access files such as shared photo files, email, data files, and calendar files. The web front end 52 may be a website or web application that allows the user to access the datastore 40 for picture files, calendars, and/or data files. In this embodiment, mail services and photo services may also be available through the web front end 52 through mail gateways on the server (SMTP and POP/IMAP for sending and receiving email) and photo gateways (printing gateways or MMS gateways for handling media files). Again, files in datastore 40 are again pushed out to other sharing clients 34 so that the most recent versions are available to the users of the shared files.

Although files may be accessed through the web interface and are not limited to the following, the primary method of accessing information is through a native client on the user’s local hard drive or computing device. The files being accessed are accessed from the user’s local hard drive. This also allows the user to access files while offline. When connections are continuously available, the files are continuously synchronized. When a continuous connection is not available, then the next time the user is connected, the changes will be synchronized.

In one embodiment, the sharing client 34 may have two modes of operation namely (1) an off-line mode wherein the client machine is not connected to the network and (2) an on-line mode wherein the client machine is connected to the network. In the off-line mode, the sharing client 34 performs only local operations. When operating in the on-line mode, the client 34 will be configured to receive real-time updates with the synchronization engine 32 to perform global synchronization operations.

When communications are first established between the server 22 and the desktop computer, there are potentially a number of modified, unsynchronized objects on the two computers. Again there may be variety of ways to determine which files need updating. Synchronization may be based on the time of the last update or may be based on some other criteria set by the user. For example and not limitation, the system may utilize an appropriate sequence number scheme employed by the local database on a sharing client 34. Specifically, a sequence number may be communicated of the last activity with respect to the local database of which the server database was aware. The synchronization engine 32 will then communicate records for all activity.
occurrences that have sequence numbers greater than the sequence number communicated. Other embodiments may have the synchronization engine maintain a log of changes. The log is provided to sharing client 34 when communications are established. The log indicates object identifiers for the objects that have been modified, added, or deleted in the server’s datastore.

[0035] In some cases, an object will have changed in both the server and the local device. If so, the user is prompted to resolve the conflict by deciding which modification should be retained. In one embodiment of the invention, the server instance of the object is received by sharing client 34 from a synchronization engine and used to create a new object in desktop object store. The sharing client 34 may prompt a user to decide which of the two objects (server or client) should be retained. If the server version of the object is selected, it replaces the desktop version. If the desktop version is selected, it is sent to the server synchronization engine to overwrite the existing version of the object in server object store.

[0036] FIG. 4 describes the application of the present embodiment of the system to a photo sharing application. In this application, the application of the sharing client 34 allows PC-to-PC sharing of high-resolution pictures. The full resolution copies of the pictures are resident on the computers running the sharing client 34 and also on the datastore 40 on the server 22 of the server platform. The sharing client 34 may include buddy lists and album group management to organize the files being shared. In addition to picture files, other files such as but not limited to videos and slideshows may also be shared.

[0037] When a user with a sharing client 34 makes changes to albums or files on a local computer, the changes are synchronized automatically across all devices. The saved changes are sent from one sharing client 34 to the synchronization engine 32 on the server 122. The synchronization engine 32 will have the datastore 40 updated with the latest file and also transmit this latest version to other sharing clients 34 that are designated as sharing with the sharing client 34 that originated the changes. Changes are synchronized even when annotation or metadata is updated for a file. This allows for collaborative annotation of pictures or other files.

[0038] The present invention allows fast, easy access to high-resolution images on the computer of each user sharing the files. Access is also available through a website that mirrors the view from the user desktop. Furthermore, since full resolution copies of files are resident in the datastore 40 of the server 22, server backup of shared pictures and application settings occur automatically. This allows for easy restoration of application settings, preferences and data on any PC.

Two-Level Sharing:

[0039] Referring now to FIG. 5, in one aspect of synchronization, some embodiments of the present invention control the release of updates to computers outside of a defined subset 60 of computers. The present invention may provide a multi-phase commit process for shared files and data objects where changes are visible only to a single user or group of users until they are published to a wider audience 62. By way of example and not limitation, updates the user makes to a file may be reflected on the user’s own computers, but not on any of the other computers (outside the subset) where the user has shared the file until the user publishes the changes. It is a two-step file save process. The draft change may also be released to a subset of users who are sharing the document.

[0040] For example, an application may automatically save changes to a document as a user edits it. These changes will be saved to the datastore and synchronized to other computers belonging to the user who made the changes. They will not be visible to other users until the owner chooses to publish them. This could be a multi-phase process where the changes are first published to a group which is a subset of all users who have access to the data object before being published to a wider audience. It is analogous to a two phase commit in a transactional database with a few important distinctions. In a traditional database, the changed record is locked (inaccessible to other users) until the transaction is committed and uncommitted changes are only visible within a single session. In this model, the original object is not locked, and the changes are stored in the database and are accessible to other sessions.

[0041] In one embodiment of the present invention, when a user first accesses a repository in the datastore, a separate logical branch is created. This branch is accessible to the user from any computer. In the beginning, this branch is empty, and all accesses are passed through to the original repository. As the user edits objects in the repository, the revisions are stored in the branch, and accesses to modified objects will incorporate these revisions. When the user publishes his changes, the modified records in the branch will be integrated with the main repository, where they will be available to other users. It is possible to create multiple levels of branches, some of which may be shared with other users, allowing the sharing of draft changes with a group of users before they are committed. The user does not need to understand the concept of a branch, only the concept of publishing changes.

[0042] For instance, in the photo sharing case, the user can modify a picture with red eye reduction, after the user has already shared the original file with a plurality of people. Immediately, those changes will be synchronized across all of the user’s multiple computers or device, but not with the previous shares. Once the user is completely done editing the picture, the server can publish the changes to all his/her shares. It should be understood of course that additional layers of sharing may be implemented to more precisely control the level of access to any particular file. Some embodiments may have multiple layers of sharing.

File Restoration

[0043] Embodiments of the present invention may also provide a method for installing applications in which all of a user’s settings and data are automatically restored. An application utilizing the platform of the present invention will automatically synchronize all of its settings and data to at least one server. When a user installs an application that he has previously used on another system, all settings and data are automatically restored to their most recent state as part of the install process. In the photo sharing instance, what this means is if a user suffers a hard drive crash or other catastrophic loss of data, the user can automatically reinstall the application and all the data, including buddy lists, album
structures, preferences, etc., without having to manually recreate it. If the system was configured to share these files, then the system will have a copy of the files on datastore 40.

[0044] Thus data is restored as it was, the last time the user used it. All of the preferences, applications, and data are the same as the last time the user used it. A user would start the installer and would not need to reconfigure the computer to have the preferences and settings from the last use.

Collaborative Metatagging

[0045] The present invention also allows for improved metatagging. Tagging is painful and sometimes too much of a burden for a single user. Any updates or tagging will then be synchronized. The sharing experience becomes much richer when the files can be more accurately sorted through metadata. The collaborative tagging improves organizing of pictures. For example and not limitation, all the pictures that a user likes can be sorted and will then be on the user local drive.

[0046] The present invention provides a method for allowing photo metadata to be collaboratively created and edited. When a user shares a photo album with others, the user may choose to grant the recipients permission to update metadata relating to the photos in the album (e.g., location and people or objects in the pictures). In the present embodiment, these changes will be propagated to all recipients of the album, allowing them to search on the metadata. So, if one user is not organized enough to enter captions or people for the metadata for that file, if the user shares the album with a plurality of other people, changes entered by any of those people will be propagated to everyone sharing the files, thus enhancing everyone’s viewing experience.

Email Aggregation and Synchronization

[0047] Referring now to FIG. 6, in another aspect of the present invention, a method is provided for aggregating messages from multiple email accounts into a single virtual account which is synchronized across multiple computers and devices. This will provide a non-browser method to access personal email. In one embodiment of the invention, the server 22 checks all of a user’s personal email accounts 80 and imports the messages into the datastore 40. The messages are synchronized to all of the user’s computers and devices, as are any further changes to the mailstore (e.g., deletions, flags, filing to a folder). The present invention gives customers a virtual Microsoft Exchange experience for their personal email. The layer of abstraction provided by the present invention will give customers freedom from worrying about checking multiple different email accounts through a browser, and instead have access to one inbox, with one set of contacts, etc., that is replicated across all of the user’s computers and a server to allow the user to access from anywhere. So, if the user deletes an email message on one computer, or adds a contact to the client in one computer, the change is immediately propagated to all the other computers.

[0048] For the present invention, the email integration is based on: 1) aggregation of multiple personal email accounts (all from a central place and all on a central account) and 2) centralization on the server to allow a user to access from multiple computers with the same inbox and contact list. If an email is moved on one server, it moves it in all inboxes. This occurs for personal email aggregated from POP, IMAP accounts, etc). Files are synchronized by the server 22 to all other clients which may access the integrated email. Thus, the present embodiments build a synchronization engine and layer the email client application on top of the synchronization engine. The datastore integrates with the synchronization engine to send updated files to the sharing clients.

[0049] Thus, the server 22 in this embodiment also handles aggregation of emails from multiple accounts. The client runs on the local computer and accesses the server with the datastore. The synchronization and aggregation occurs at the server. As mentioned, this system is for the personal email accounts. Multiple personal email accounts are checked through multiple browsers or multiple sessions. In the user’s local client, the emails are aggregated. This creates some email portability. All the emails are on the local server and not just on the server of the email service. The present invention provides real-time synchronization among multiple devices and provides aggregation of multiple personal email accounts. The synchronization keeps the connection open at all times so that update changes will be reflected on the new computers.

[0050] In one embodiment of the invention, the mailstore will receive email from the personal email accounts for integration and storage on a datastore 40 on server 22. Files on those personal email accounts may then be deleted to reflect changes made in the mailstore. For example and not limitation, spam email that a user deletes from the files on the mailstore will also be deleted from the individual personal accounts so that they are not present if the user accesses the personal accounts directly. Most of these personal accounts are web-based, browser-based accounts. Updates that the user makes to mailstore on the server 22 will be reflected back to those email services. Changes may be reflected back to the originating service via POP, IMAP, or another protocol such as but not limited to Web-DAV.

[0051] While the invention has been described and illustrated with reference to certain particular embodiments thereof, those skilled in the art will appreciate that various adaptations, changes, modifications, substitutions, deletions, or additions of procedures and protocols may be made without departing from the spirit and scope of the invention. For example, with any of the above embodiments, the synchronization engine may synchronize with a personal information module (PIM) (such as but not limited to Microsoft Outlook or the Palm Desktop) or with a Personal Digital Assistant (PDA) (such as but not limited to a Palm device or any Windows CE device). In a further alternative, the present invention may also be used to update a user’s personal calendar. This may be a calendar that is separate from the one the user may have at work. Additionally, the integrated email, calendar, and other applications may form a suite of applications where there is one interface accessed by the user that synchronizes multiple sources (emails, photos, and calendars). This will be a way to synchronize all personal data.

[0052] The publications discussed or cited herein are provided solely for their disclosure prior to the filing date of the present application. Nothing herein is to be construed as an admission that the present invention is not entitled to antedate such publication by virtue of prior invention. Further, the dates of publication provided may be different from the actual publication dates which may need to be indepen-
dently confirmed. All publications mentioned herein are incorporated herein by reference to disclose and describe the structures and/or methods in connection with which the publications are cited.

[0053] Expected variations or differences in the results are contemplated in accordance with the objects and practices of the present invention. It is intended, therefore, that the invention be defined by the scope of the claims which follow and that such claims be interpreted as broadly as is reasonable.

We claim:

1. A computer-implemented method for managing and sharing picture files, the method comprising:
   providing a server platform;
   providing a datastore on said server platform for maintaining full resolution copies of the files shared between a plurality of sharing clients;
   providing a synchronization engine on said server platform configured to send real-time updates to a plurality of sharing clients when at least one of the sharing clients updates or changes one of said files; and
   providing a web interface that allows a user to access files in the datastore through the use of a web browser.

2. The method of claim 1 using the synchronization engine to send updates to each of the sharing clients when one of the sharing clients changes metadata for one of the picture files.

3. The method of claim 1 wherein said picture files includes video files.

4. The method of claim 1 wherein said picture files includes slideshows.

5. A computer-implemented method for sharing a data object amongst multiple clients and distributing changes made to the data object among the clients, the method comprising:
   sending the data object from at least one sharing client to a synchronization engine so that a data object copy resides at each sharing client;
   receiving, at the synchronization engine, changes to the data object from one of the sharing clients; and
   distributing the changes from the sharing client that originated the changes to the clients not aware of the changes so that the data object and data object copies may reflect the changes.

6. The method of claim 5 wherein the data object is a picture file.

7. The method of claim 5 wherein the data object is an email message.

8. The method of claim 5 wherein the data object is distributed to only a subset of the sharing clients.

9. The method of claim 5 wherein the data object is distributed to only a subset of the sharing clients and is not distributed to a larger set of the sharing clients until released by the user for wider distribution.

10. A computer-implemented method for managing emails from personal, web-based email services, the method comprising:
    providing a server platform;
    providing a mailstore on said server platform for maintaining copies of the emails obtained from the various personal, web-based email services;
    providing a synchronization engine on said server platform configured to send real-time updates to a plurality of sharing clients when at least one of the sharing clients updates or changes one of said emails; and
    providing a web interface that allows a user to access email files in the mailstore through the use of a web browser.

11. The method of claim 10 further comprising updating the inbox of the appropriate personal, web-based email services to reflect changes or deletions made by the user in the mailstore on the server platform.

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