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Financial management system and method with customizable user interface

Abstract

Systems, methods, and computer-readable storage media for arranging a user interface based on account activity of a user are described herein. A method includes providing a user with access to online banking via a user device, providing a user interface on the user device including a plurality of display areas, and rearranging positions of the plurality of display areas of the user interface based on the user selecting an auto-arrange option. Selection of the auto-arrange option causes at least one of the plurality of display areas on the user interface to be arranged in a new position based on account activity of the user.

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Background/Summary

CROSS-REFERENCE TO RELATED APPLICATIONS (1) This application is a continuation of U.S. patent application Ser. No. 17/565,388, filed Dec. 29, 2021, which is a continuation of U.S. patent application Ser. No. 16/663,752, filed Oct. 25, 2019, now U.S. Pat. No. 11,250,390, which is a continuation of U.S. patent application Ser. No. 13/612,673, filed Sep. 12, 2012, now U.S. Pat. No. 10,460,379, which is a divisional of U.S. patent application Ser. No. 12/871,768, filed Aug. 30, 2010, which claims the benefit of and priority to U.S. Provisional Patent Application No. 61/238,567, filed Aug. 31, 2009, and is related to U.S. patent application Ser. No. 16/663,637, filed Oct. 25, 2019, now U.S. Pat. No. 11,861,689, and to U.S. patent application Ser. No. 12/324,637, filed Nov. 26, 2008, now U.S. Pat. No. 10,460,376, each of which is incorporated herein by reference in their respective entireties and for all purposes.

BACKGROUND

(1) The present disclosure relates to systems and methods of financial management, and more specifically, to systems and methods that facilitate account management and financial planning for individuals and other entities (e.g., small businesses, etc.).

(2) Individuals and other entities often rely on computer-based systems for different types of financial planning, including budgeting, spending tracking, and so on. However, many existing computer-based systems are cumbersome to use and have limited capabilities regarding the types of financial planning and account management services offered.

(3) It would be advantageous to provide an improved system and method for financial planning and account management for individuals, small businesses, and other users that overcame the disadvantages of existing systems.

SUMMARY

(4) One embodiment relates to a computer-implemented data processing system comprising a data storage device; and a processor and program logic stored in memory and executable by the processor, the program logic including account management logic coupled to the data storage device and configured to manage accounts respectively associated with a plurality of users, the account management logic including account processing logic configured to process transactions for the accounts and store account data related to the accounts in the data storage device; and interface logic coupled to the account management logic and the data storage device, the interface logic configured to connect the data processing system to computing systems associated with the plurality of users by way of the Internet, the interface logic providing the plurality of users with web access to an on-line banking area of a website of a financial institution, the interface logic further configured to establish a connection with one of the users and provide the user with a user interface, the user interface including selected ones of a plurality of display modules provided on a single display page, each display module being associated with one of a plurality of services offered by the financial institution, each of the display modules displaying financial data that is based on account data stored in the storage device for accounts associated with the user; wherein the user interface is customizable based on inputs received from the user to provide the selected ones of the plurality of display modules.

(5) Another embodiment relates to a computer-implemented data processing system comprising a data storage system; and a processor and program logic stored in memory and executable by the processor, the program logic including account management logic coupled to the data storage system and configured to manage accounts respectively associated with a plurality of users, the account management logic including account processing logic configured to process transactions for the accounts and store account data related to the accounts in the data storage device; cash flow planning logic coupled to the account management logic and the data storage device, the cash flow planning logic configured to access the account data stored in the data storage system and determine projected cash flows and projected account balances through a future point in time for each of the users based on accessing the account data in the data storage system; and interface logic

coupled to the cash flow planning logic and configured to establish a connection with one of the users and provide the user with a user interface, the user interface including a representation of the projected cash flows and the projected account balances through the future point in time for the user.

(6) Another embodiment relates to a computer-implemented data processing system comprising a data storage system; and a processor and program logic stored in memory and executable by the processor, the program logic including account management logic coupled to the data storage system and configured to manage accounts respectively associated with a plurality of users, the account management logic including account processing logic configured to process transactions for the accounts and store account data related to the accounts in the data storage device; retirement planning logic coupled to the account management logic and the data storage system, the retirement planning logic configured to access the account data stored in the storage device and determine projected retirement spending amounts for a user based on account data associated with the user, the retirement logic further configured to determine a projected required savings amount based on the projected retirement spending amounts; and interface logic coupled to the retirement planning logic and configured to establish a connection with one of the users and provide the user with a user interface, the user interface including retirement planning data, the retirement planning data including an indication of the user's progress in accumulating the projected required savings amount.

(7) Another embodiment relates to a computer-implemented data processing system comprising a data storage system; and a processor and program logic stored in memory and executable by the processor, the program logic including account management logic coupled to the data storage system and configured to manage accounts respectively associated with a plurality of users, the account management logic including account processing logic configured to process transactions for the accounts and store account data related to the accounts in the data storage device; budget logic coupled to the account management logic and configured to determine budget spending amounts for a user for a plurality of categories, the budget logic further configured to identify a surplus cash flow amount for the user; debt management logic coupled to the account management logic and the data storage system, the debt management logic configured to access the account data stored in the storage device; determine an amount of debt owed by the user based on accessing the account data stored in the storage device; and establish a debt payment plan for the user configured to permit the user to pay off the amount of debt over a period of time, the debt payment plan including projected periodic debt payments determined based on the account data and the surplus cash flow amount for the user; and interface logic coupled to the debt payment logic and configured to establish a connection with the user and provide the user with a user interface, the user interface including debt payment data associated with the debt payment plan, the debt payment data configured to permit the user to track the user's progress over time in making the periodic debt payments to pay off the amount of debt owed by the user.

Description

BRIEF DESCRIPTION OF THE DRAWINGS

(1) FIG. 1 is a block diagram of a data processing system according to an exemplary embodiment.

(2) FIG. 2 is a block diagram of the financial planning logic shown in FIG. 1 according to an exemplary embodiment.

(3) FIG. 3A is a screen display that may be provided to a user to permit the user to view a variety of financial account data according to an exemplary embodiment.

(4) FIG. 3B is a screen display that may be provided to a user to permit the user to view a variety of financial account data according to another embodiment.

- (5) FIG. 4 is a screen display that may be provided to a user to permit the user to view cash flow planning data according to an exemplary embodiment.
- (6) FIG. 5 is a screen display that may be provided to a user to permit the user to view a calendar view of future balance and cash flow projections according to an exemplary embodiment.
- (7) FIG. 6A is a screen display that may be provided to a user to permit the user to view a graph view of future balance and cash flow projections according to an exemplary embodiment.
- (8) FIG. 6B is a screen display that may be provided to a user to permit the user to view a calendar view of future balance and cash flow projections according to an exemplary embodiment.
- (9) FIG. 6C is a screen display that may be provided to a user to permit the user to view a graph view of future balance and cash flow projections according to an exemplary embodiment.
- (10) FIG. 6D is the screen display of FIG. 6C showing an additional screen portion according to an exemplary embodiment.
- (11) FIG. 6E is a screen display that may be provided to a user to permit the user to view a graph view of buffer data according to an exemplary embodiment.
- (12) FIG. 6F is a screen display that may be provided to a user to permit the user to view savings plan data according to an exemplary embodiment.
- (13) FIG. 7 is a screen display that may be provided to a user to permit the user to view and provide retirement planning and management data according to an exemplary embodiment.
- (14) FIG. 8 is a screen display that may be provided to a user to permit the user to view the progress of the user regarding a retirement savings plan according to an exemplary embodiment.
- (15) FIG. 9 is a screen display that may be provided to a user to permit the user to view the status of a user's retirement spending plan according to an exemplary embodiment.
- (16) FIG. 10A is a screen display that may be provided to a user to permit the user to provide and view debt management data according to an exemplary embodiment.
- (17) FIG. 10B is a screen display that may be provided to a user to permit the user to monitor debt levels for various accounts according to an exemplary embodiment.
- (18) FIG. 11 is a screen display that may be provided to a user to permit the user to view and edit budgeting data according to an exemplary embodiment.
- (19) FIG. 12 is a screen display that may be provided to a user to permit the user to set up and modify various alerts according to an exemplary embodiment.

DETAILED DESCRIPTION OF EXEMPLARY EMBODIMENTS

- (20) Referring to FIG. 1, a data processing system **100** according to an example embodiment is shown. The data processing system **100** includes a system **110** that may be accessed by various users and used to process financial transactions for users. For example, system **110** may be used for financial planning purposes such as viewing savings, budget, or spending reports, viewing cash flow projections, retirement planning, repaying debt, and so on. The users may access data processing system **110** using a variety of computing systems **114-122**. Computing systems **114-122** may access system **110** through a communication network **112** which may, for example, include the Internet, telephone networks, wireless networks, point-to-point networks, and/or other networks.
- (21) Computing systems **114-122** may include computers **114** such as laptop or desktop computers that are accessible to individual users, such as home computers, work computers, public computers, and so on. Computers **114** may be used by the users to access system **110**, for example, via the Internet. For example, computers **114** may be used to import data from and export data to local storage (e.g., hard drive, memory stick, CD ROM, etc.). Likewise, computing systems **114-122** may also include other devices such as mobile computing devices **116** (e.g., cell phones, mobile e-mail devices, mobile short message service (SMS) devices, and so on) that may be used to import data into and export data out of system **110**.
- (22) In an example embodiment, system **110** is provided by a financial institution, and the users are customers of the financial institution that access system **110** through an on-line account area of a website of the financial institution. For example, system **110** may be provided by a bank, and the

users may be customers of the bank that access system **110** through an on-line banking area of a website of the bank. System **110** may be provided as an enterprise computing system that provides account management and financial planning services in addition to a variety of other services for users internal and external to the bank. In such an embodiment, the financial planning services provided by the financial institution may include savings planning, on-line/automatic bill payment, spending and/or budget reports, cash flow planning, on-line checking, and similar services. Such an arrangement is described in greater detail below.

(23) Computing systems **114-122** may include server-based computing systems **120**, which may include, for example, enterprise computing systems associated with other business entities. For example, where a user pays bills to businesses electronically (e.g., on-line payment of utility bills, credit card bills, telephone bills, cable bills, and so on), computing systems **120** may be computer systems operated by the business to generate the bills and to process the user's accounts. Electronic bills may be received from such businesses and stored in system **110** (e.g., the complete bill, the bill in summary form, etc.). As another example, computing systems **120** may be associated with vendors to whom billing and collection operations are outsourced by other companies. As another example, computing systems **120** may be associated with entities that publish RSS (Really Simple Syndication) feeds, and the user may use system **110** to store RSS feeds such as blog entries, news headlines, and podcasts. As another example, computing systems **120** may be associated with entities that allow for on-line ordering of products. Other computing systems **122** may also be provided.

(24) Referring further to FIG. **1**, system **110** may include network interface logic **124**, account management logic **126**, and a data storage system **128**. Such logic may, in practice, comprise a processor (e.g., a single microprocessor, a connected network of microprocessors/servers, etc.) and program instructions that are stored in memory and that are executed by the processor.

(25) Network interface logic **124** may be used to establish connections with computing systems **114-122** and permits users to access accounts and account data in system **110** by way of network **112**. For example, in the context of desktop/laptop computers **114**, network interface logic **124** may comprise one or more web servers that provide a graphical user interface (e.g., a series of dynamically-generated web pages or screen displays) for users that access system **110** through the web. The graphical user interface may be used to provide users with access to a variety of services offered by a financial institution, as discussed in greater detail herein. Network interface logic **124** may also comprise other logic that is configured to provide an interface for other types of devices such mobile computing devices **116**, ATMs **118**, and server-based computing systems **120**.

(26) As indicated above, in an example embodiment, system **110** is provided by a financial institution and is accessible through an on-line account area of a website of the financial institution. In such an embodiment, account management logic **126** may include financial account processing logic **130** and financial planning logic **132**. Account processing logic **130** performs account processing to process transactions in connection with the account(s) of an account holder, such as account debits and credits to checking and savings accounts, credits and debits to home mortgage and home equity accounts, credits and debits to student loan accounts, and so on. For example, in the context of checking accounts, the transactions may also include electronic bill payment transactions in which monies from the checking account of the user are used to pay bills received by the user. Financial planning logic **132** provides a variety of financial planning services (e.g., resources, tools, reports, etc.) to users of system **110** to assist users in managing their financial accounts. Financial planning services may include savings plans, spending/budget plans and reports, retirement planning services, debt management services, and so on. Financial planning logic **132** may further include various logic components that facilitate the generation of a variety of reports, etc., by tracking fund transfers, bill payments, check deposits, etc.

(27) As discussed above, in an exemplary embodiment, system **110** may include a data storage system **128**. Data storage system **128** may be configured to store data related to financial accounts

134 (e.g., checking account data, credit card account data, etc.) and various financial planning services **136** (e.g., savings/spending goals, alert preferences, etc.). Data storage system **128** may be accessed by network interface logic **124**, account management logic **126**, and/or any of the other logic or other components discussed herein. In one embodiment, system **110**, and more specifically, data storage system **128**, may act as the system of record for the account data for various accounts of different users, and may provide various different types of data to the various logic and other components herein. Utilizing data storage system **128** as the system of record provides definitive values for individual elements of data or information, and avoids discrepancies or other errors in such data that may occur, for example, when manually entering account data into financial planning tools that are not integrated with the actual account data.

(28) Referring now to FIG. 2, financial planning logic **132** is shown in greater detail according to an example embodiment. As shown in FIG. 2, financial planning logic **132** may include transfer logic **138**, savings planning logic **140**, bill payment logic **141**, budgeting logic **142**, check logic **143**, spending logic **145**, retirement planning logic **146**, debt management logic **148**, and cash flow planning logic **144**. According to various alternative embodiments, more or fewer logic components may be provided as part of financial planning logic **132**, and certain logic components may be integrated and/or include further discrete logic components relative to those illustrated in FIG. 2.

(29) Transfer logic **138** may be used to track transfers of funds between various user accounts. For example, transfer logic **138** may track the amount of funds transferred, the account from which the funds were transferred, the account to which the funds were transferred, and the date of the transfer. Transfer logic **138** may also enable a user to schedule future fund transfers between accounts. Such transfers may be scheduled on a one-time basis, a recurring basis, etc. Transfer logic **138** may further enable a user to modify scheduled transfers of funds and perform other functions.

(30) Savings planning logic **140** may enable users to set up or manage a savings plan that includes a savings goal (e.g., a specific amount such as \$1000, etc.) and, if desired, a target date for reaching the goal. Savings planning logic **140** may monitor a user's progress in meeting one or more savings goals, and may provide periodic updates, alerts, etc. to the user. Further, a user may establish and label different savings plans (e.g., vacation, school tuition, etc.) and track each plan individually. Savings planning logic **140** may further interface with transfer logic **138** to enable automatic transfers to one or more savings accounts to facilitate the savings process.

(31) Bill payment logic **141** may enable users to pay one or more bills electronically and/or automatically. For example, a user may specify a payee to whom a payment is to be sent, the date on which the payment is to be sent, and the amount of the payment. Bill payment logic **141** may then provide payment to the payee according to the user-provided parameters. Automatic payments may be made periodically (e.g., on a monthly basis) should a user have a recurring payment of a single amount (e.g., a set loan payment amount). Further, bill payment logic **141** may track both past bill payments and future, projected bill payments.

(32) Budgeting logic **142** may enable a user to set up and utilize a budget report or plan. For example, a user may define or select categories for various transaction types and/or merchants such that a user may create a report that includes current and/or past spending data organized by category. As such, budgeting logic **142** may enable a user to set up budget spending amounts for each category. The budget spending amounts may be prepopulated based on average historic spending amounts of each category, and the budget amounts may alternatively be entered and/or modified by the user. Other features of budgeting logic **142** are discussed in further detail with respect to FIG. 11.

(33) Check logic **143** may track checks written against one or more checking accounts of a user, including check amounts, check dates, and other relevant information. Furthermore, in some embodiments, check logic **143** may provide links to images of checks such that a user may view an image of the actual written check. Check logic **143** may track data on an aggregated basis over

several checking accounts, or alternatively, may enable a user to view data for a single checking account.

(34) Spending logic **145** may be used to set up and/or utilize a spending summary or report, and/or to identify discretionary spending amounts (e.g., entertainment, etc.) of a user. Spending logic **145** may enable a user to categorize various types of user transactions (e.g., credit card purchases, etc.) by transaction categories (e.g., by merchant type, etc.) and view a spending summary such as that shown in FIG. **11** and discussed in further detail below. Spending logic **145** may further be used to identify potential sources of additional savings for a user (e.g., should a user be looking for savings opportunities in order to pay off personal loans or other debt, etc.). In some embodiments, discretionary spending amounts may be identified based on categorizations of transactions in connection with spending logic **145** and budgeting logic **142**. Spending logic **145** may further provide a user with status reports or alerts advising the user of, for example, an unusual increase in spending during a specific time period (e.g., a current month, etc.). Further yet, spending logic **145** may be configured to provide the user with advice or tips on how to reach various financial goals.

(35) Retirement planning logic **146** may be used to generate retirement plans for users. In some embodiments, retirement planning logic **146** may be used both during the pre-retirement, or accumulation period, of a user, as well as during actual retirement, as a retirement management tool. As discussed in further detail with reference to FIGS. **7-9**, retirement planning logic may assist users in establishing and monitoring retirement savings goals, retirement spending trends, and so on.

(36) Debt management logic **148** may be used in connection with reducing the debt of a user. In some embodiments, debt management logic **148** may track one or more loans (e.g., personal loans, home loans, etc.) or other payment obligations (e.g., credit card payments due, etc.) and assist a user in establishing a plan for reducing and/or eliminating one or more sources of debt. As discussed in further detail with reference to FIG. **10**, debt management logic **148** may assist users in consolidating debt, establishing and managing a debt payment plan, and monitoring the progress of a debt payment plan.

(37) Cash flow planning logic **144** may be used to provide past, current, and/or projected cash flow data. For example, in some embodiments, cash flow planning logic **144** may interface with the various other logic components shown in FIG. **2** to provide users with an overall cash flow analysis based on various past and projected cash flows, including fund transfers, bill payments, spending transactions, and so on. As discussed in further detail with reference to FIGS. **4-6**, cash flow planning logic **144** may enable users to monitor and adjust cash flows to maintain one or more desired account balances in a number of user accounts.

(38) Referring now to FIG. **3A**, according to an exemplary embodiment, network interface logic **124** may be configured to provide a user with a screen display **150**. As shown in FIG. **3A**, screen display **150** may provide users with a “snapshot” of various financial accounts, reports, etc. (e.g., a personal financial management “dashboard” or “landing page”). In some embodiments, users may be required to log on or otherwise register to obtain access to an on-line banking area of a financial institution, and screen display **150** may be the first screen display provided to users after being properly logged on and/or registered. Screen display **150** is intended to provide users with a summary of various account information, reports, progress/status alerts, and so on. Network interface logic **124** may interface with account management logic **126** to provide screen display **150**, including interfacing with various logic components of financial planning logic **132**. For example, in some embodiments, one or more of the logic components of financial planning logic **132** may be configured to generate or provide various display portions, or display modules, as part of screen display **150**. For example, as shown in FIG. **3A**, screen display **150** may include a number of modules **152-164** (e.g., display modules or portions, images, etc.), including a savings planning module **152**, a graphical spending summary module **154**, a textual spending summary module **156**, a graphical cash flow module **158**, a calendar cash flow module **160**, a budget analysis

module **162**, and a savings status module **164**.

(39) Savings planning module **152** may be or include one or more links to savings plans for an individual user. Savings plans may be established for individual goals (e.g., a new home purchase, a car purchase, school tuition, etc.), and the progress toward each goal may be tracked individually by savings planning logic **140**.

(40) Graphical spending summary module **154** may include a graphical representation of spending trends for a user. For example, a chart **166** such as a pie chart, a bar chart, or other suitable chart or graph may be used to provide the user with a graphical representation of the user's spending. In some embodiments, chart **166** may include, for example, the top ten spending categories for a user over a specific time period. In other embodiments, chart **166** may include user-identified spending categories such that a user may configure chart **166** to include desired categories of spending. A key **168** may provide actual spending amounts for chart **166**.

(41) Textual spending summary module **156** may include a textual listing of total inflows, total outflows, and the net cash flow (positive or negative) for one or more time periods, including a current time period (e.g., a month-to-date). In addition, spending summary module **156** may take into account budgeted cash flows and provide overall budgeted cash inflows and outflows, and further may provide an “over” or “under” amount that reflects a user's actual spending/savings versus budgeted amounts. For example, module **156** may include inflows and outflows for two previous months, current, month-to-date inflows and outflows, budgeted inflows and outflows for the current month, and the current over/under amounts for the cash inflows and outflows. Spending summary **156** may assist users in identifying “what's left” with respect to a user's net monthly cash flows (e.g., any positive net cash flow amounts over a given period), which may in turn assist a user in identifying sources of additional savings for various individual savings plans, debt payment plans, retirement plans, etc.

(42) Graphical cash flow module **158** may provide a graphical representation of cash flows of a user. For example, module **158** may include a line graph **50** showing the amounts of various cash flows such as expenses, income, and transfers over a period of time (e.g., one week, one month, etc.). Module **158** may further provide a line graph of a user's net cash flow over time. In some embodiments, module **158** may be selectable (or include a selectable link) to direct a user to additional details regarding the user's cash flows.

(43) Calendar cash flow module **160** may provide information similar to graphical cash flow module **158**, but in a calendarized format. For example, as shown in FIG. 3A, module **160** may present a number of individual days **171** as part of a calendar **175**. A balance amount **172** may be provided as part of each individual day **171**, and historic or projected cash flows **174** may be provided on appropriate days. In some embodiments, individual cash flows **174** may include or be links that are selectable to provide additional data regarding the cash flow. For example, as shown in FIG. 3A, a display portion **176** (e.g., a screen display, a pop-up image, an overlay image, etc.) may provide the details of an individual transaction provided as a cash flow **174** on calendar **175**. As discussed in greater detail with respect to FIGS. 4-6, module **160** may enable a user to add or remove transactions or other cash flows, or even reschedule transactions (e.g., by dragging and dropping a scheduled transaction from one day to another day) in order to maintain a minimum balance, etc.

(44) Budget analysis module **162** may include status reports, alerts, and/or other messages regarding one or more budgets of the user. As shown in FIG. 3A, module **162** may include a graphical comparison of actual spending amounts versus budgeted spending amounts for a variety of transaction categories over a period of time such as one month, one year, etc. Alternatively, budget analysis module **162** may provide data in a textual format, including actual spending amounts, budgeted spending amounts, and over/under values indicating the amounts by which the actual spending amounts are over and/or under the budgeted amounts. Other budget information may further be provided, and module **162** may further include a link to a more detailed budget

report, such as that shown in FIG. 11.

(45) Savings status module **164** may provide a user with a status or progress of the user in relation to one or more savings goals such as vacation savings, emergency savings, etc. For example, as shown in FIG. 3A, module **164** includes a status bar **178** that may be a status bar that indicates via shading, highlighting, etc., the user's progress toward a savings goal for a vacation. Similarly, a status bar **180** may indicate a user's progress toward a savings goal for an emergency savings fund. More or fewer status bars may be provided, and the status bars may further provide an indication of whether a user is on track to meet a savings goal by a specified date (e.g., by providing an indication that the user is ahead of/behind schedule to meet a particular savings goal by a specific date). Module **164** may further include one or more additional links to additional information such as creating another savings plan, identifying additional sources of savings, and so on.

(46) Other modules may be provided in addition to those illustrated in FIG. 3A, including a debt management module (e.g., for displaying the status of a debt payment plan), a credit management module (e.g., for displaying a credit score, credit report, etc.), a retirement planning module (e.g., for displaying the status of a retirement savings plan, a retirement management plan, etc.), a real estate module (e.g., for displaying data related to real estate investments), a net worth module (e.g., for providing an estimated net worth of an individual), an advice and guidance module (e.g., for providing tips and advice regarding financial planning, etc.), a messages and rewards modules (e.g., for providing messages and/or rewards indications to users), and so on.

(47) According to an exemplary embodiment, network interface logic **124** may be configured to provide different, customized views of screen display **150** to different users, such that for each user, different modules may be displayed as part of screen display **150**. Screen display **150** may be customized based upon, for example, a user indicating which modules the user wishes to be able to view as part of screen display **150**. Alternatively, screen display **150** may be customized based on the activity of the user at a financial institution (e.g., based on the types of accounts the user has open, the types of financial planning services the user is currently utilizing and/or not utilizing, the age of the user (e.g., how close to retirement), the type and how much debt the user currently has, and so on). Further, network interface logic **124** may enable users to rearrange modules on screen display **150** (e.g., by dragging and dropping modules, etc.). Other ways of customizing screen display **150** may be used according to various other exemplary embodiments.

(48) Providing a screen display such as screen display **150** is intended to provide a brandable summary (e.g., with the logo, trademark, etc. of a financial institution such as a bank, etc.) of financial account and financial planning data for users that may be customized according to user preferences or other parameters. Such a screen display may enable smarter and more timely financial decisions, provide users with insight into their financial profile, enable users to learn basic financial skills and financial best practices, and assist users in achieving financial goals through monitoring, alerting, forecasting, and encouraging financial discipline. According to an exemplary embodiment, modules **152-164** may be generated and/or periodically updated based on data retrieved from data storage system **128**. For example, in one embodiment, modules **152-164** may be updated on a daily basis. In other embodiments, modules **152-164** may be updated more or less frequently.

(49) Referring further to FIG. 3A, any of modules **152-164** may be or include a link configured to direct a user to additional information or details regarding the subject matter of the specific module. For example, should a user select a link associated with budget analysis module **162**, the user may be directed to a detailed budget report (such as the one shown in, e.g., FIG. 11) having additional detail than that provided by way of, for example, budget analysis module **162**. As an additional example, should a user select a link associated with calendar cash flow module **160**, the user may be directed to a screen display that includes an enlarged and/or more detailed view of a calendar cash flow view, an exemplary embodiment of which is provided in FIG. 5. In some embodiments, a user may move a cursor or similar item across display **150**, and user interface logic **124** may be

configured to highlight the specific module that the cursor is currently positioned on.

(50) Referring now to FIG. 3B, a screen display **700** is shown according to an example embodiment. Screen display **700** may be similar to display **150** in many regards, in that display **700** may provide the user with a number of “modules,” such as modules **704-714** (e.g., display areas or portions, images, icons, etc.). For example, as shown in FIG. 3B, display **700** includes a cash flow module **704**, a savings plan module **706**, a debt monitor module **708**, a spending report module **710**, and a budget module **712**. Other modules **714** may also be included (e.g., a retirement planning module, a real estate module, an investments module, etc.).

(51) According to one embodiment, display **700** may be configurable by a user such that a user may add, remove, and rearrange the various modules. For example, the modules shown as part of display **700** may be provided based on inputs received from a user (e.g., via a user profile page that is populated by the user, etc.). Further, display **700** may include a “drag and drop” feature such that the modules may be rearranged by a user by the user selecting a given module and moving the module to a new position on display **700**. Alternatively, an “auto-arrange” feature may be selected by a user such that the modules of display **700** are arranged automatically according to certain criteria (e.g., user preferences, account activity of a user or user spending/savings habits, etc.).

(52) Cash flow module **704** may include a status field **716**, a graph **718** that includes historical account balance data, and an option **720** that enables a user to select one or more accounts to be represented in status field **716** and/or graph **718**. An option **722** may enable a user to view additional details regarding the user's cash flow. Status field **716** may provide a current balance for one or more accounts, or alternatively, may indicate that a user has overdrawn an account by a certain amount. Further yet, status field **716** may provide an alert indicating that according to projected cash flows, a user may be overdrawn a certain amount as of a future date in time. As shown in FIG. 3B, graph **718** provides both historical and projected cash flows, in addition to identifying the current balance. In some embodiments, a user may select various portions of graph **718** (e.g., by moving a cursor along a line of the graph) and may be provided with the current balance of the day corresponding to a selected portion of the graph. Furthermore, option **720** is configured to enable a user to select different accounts to be represented within module **704**.

(53) Savings plan module **706** may include a status field **724**, one or more savings graphs **728**, an account selection option **729**, and a more details option **730**. Status field **724** may provide the status of a user's progress toward reaching one or more savings goals. For example, as shown in FIG. 3B, status field **724** indicates that a user has reached 61% of the user's total savings goals. Graphs **728** may provide a bar or other type of graph that provides a graphical representation of a user's progress toward a specific goal (e.g., a rainy day fund, a new car goal, a new kitchen goal, and so on). For example, while status field **724** indicates that the user has saved 61% of all savings goals, graphs **728** provide a breakdown regarding specific goals (e.g., 100%, 74%, and 0%, respectively, as shown in FIG. 3B). A graphical indicator (e.g., a picture, image, icon, etc.) may be provided adjacent one or more of graphs **728** to provide a pictorial representation of the goal (e.g., a piggy bank representing a rainy day fund, a picture of a car representing a new car goal, and so on).

(54) Debt monitor module **708** may include a status field **730**, a graph **732**, an account selection option **734**, and a more details option **736**. Status field **730** may indicate, for example, a current increase or decrease in the user's debt level for the current month. Graph **732** may provide current and/or historic debt information for a user (e.g., individual or aggregated amounts owed for one or more credit card accounts, loan accounts, etc.). As shown in FIG. 3B, graph **732** includes a separate bar for each month, and provides the total debt for each month. Account selection option **734** permits the user to add or remove accounts to be represented by debt monitor module **708**. More details option **736** enables a user to access additional data regarding the user's debt and related information.

(55) Spending report module **710** may include a status field **738**, a graph **740**, a budget selection option **742**, and a more details option **744**. Status field **738** may provide an indication of the net

cash flow of the user for the most recent past month (e.g., as “What's Left” between cash in flows and cash out flows). For example, as shown in FIG. 3B, status field **738** indicates that the user took in \$245 dollars more than what the user spent over the course of the previous month. Graph **740** may provide a pictorial representation of similar data, showing a comparison of cash in flows and cash out flows, and further providing the difference between these values (e.g., “What's Left”). More details option **744** enables a user to access additional spending data and related information. (56) Budget watch module **712** may include a status field **746**, a graph **748**, a budget selection option **749**, and a more options field **752**. Status field **746** may indicate the amount the user has spent in the current month relative to the user's total spending budget for the month. For example, as shown in FIG. 3B, status field **746** indicates that the user has spent 35% of the current month's budget. Graph **748** may provide similar data, for example, by way of a bar chart that indicates a percentage of the total month's budget spent to date. According to an alternative embodiment, budget watch module **712** may show actual spending/budget amounts instead of or in addition to the percentages shown in FIG. 3B. Budget selection option **749** may enable a user to specify one or more accounts to be represented by budget watch module **712**. More details option **752** enables a user to view additional budget data and related information.

(57) As mentioned previously, other modules **714** may be provided in accordance with various alternative embodiments, and may be provided automatically based on criteria such as a user profile, user spending/savings habits, user preferences, and so on.

(58) Referring now to FIG. 4, a screen display **200** is shown according to an exemplary embodiment. Screen display **200** may be generated by network interface logic **124** and/or cash flow planning logic **144**, and may provide a user with a “Cash Flow Planner” intended to present a summary view of various pending cash flows such as income, electronic payments, transfers, checks, and so on. For example, as shown in FIG. 4, screen display **200** may include an income summary **202**, a pending electronic payments summary **204**, a pending transfers summary **206**, and a checks and other spending summary **208**. Summaries **202-208** are intended to provide users with summarized data related to various types of cash flows, and may include total cash flow amounts for each summary section indicating a total cash flow over a period of time. In some embodiments, the time period over which summary data is provided may be a future time period, a historic time period, or a combination of future and historic time periods.

(59) According to an exemplary embodiment, income summary **202** may include one or more transactions or cash flows **212**. Each transaction **212** may include information such as a date, a description, a transaction type, and a transaction amount. Income summary **202** may further include a link **214** that permits a user to add additional transactions (e.g., cash flows in the form of income, etc.) and a link **216** that permits a user to view historic cash flow data. For example, should a user desire to add or modify one or more transactions, a user may provide transaction details such as a source/destination account number or identifier, one or more recipients, an amount, a date, etc. Summaries **204**, **206**, **208** may be similar to summary **202**, and may each include one or more transactions or cash flows **218**, **224**, **230**, links **220**, **226**, and/or links **222**, **228**, **232**, respectively.

(60) Screen display **200** may further include a link **210** that may direct a user to one or more reports, graphs, or other information that includes future balance information for one or more accounts of the user. Example embodiments of screen displays that may be provided or generated by cash flow planning logic **144** and/or network interface logic **124**, and that may include historic and/or future cash flow and/or account balance data, are illustrated in and discussed in further detail with respect to FIGS. 5-6E.

(61) Referring to FIG. 5, a screen display **250** is shown according to an exemplary embodiment. Screen display **250** may be a “Future Balance” view for a user and may include a calendar **252** that presents projected cash flows and projected account balances for a selected account **254** over a selected time period **256**. According to various alternative embodiments, account **254** and/or time period **256** may be selected by a user or may be pre-selected by network interface logic **124** and/or

cash flow planning logic **144**. Furthermore, data from one or more accounts may be combined and presented using screen display **250** (e.g., by use of a drop-down or other menu that permits a user to identify multiple accounts to be included in the view).

(62) As shown in FIG. 5, calendar **252** may include a number of individual days **258** presented in a conventional or other calendar format. Various cash flows **260** may be displayed on the appropriate days **258** (e.g., on the day the cash flow is scheduled to occur, such as a direct deposit from a payroll, a transfer, etc.). Each day **258** may further include a projected account balance **262** that reflects the cash flows up to and including that date. In some embodiments, negative account balances and/or any cash flows that result in a negative account balance may be presented so as to capture the attention of a user (e.g., via highlighting, a bold or relatively larger font, a different color font, underlining, etc.). According to an exemplary embodiment, projected cash flows **260** and/or projected account balances **262** may be or include selectable links configured to provide a user with additional details upon selection by a user. For example, should a user select cash flow **260**, a display or image **264** (e.g., a pop-up display, an overlay image, etc.) may be provided that includes information such as the type of transaction, an account number, or even additional links to further information and/or advice.

(63) According to an exemplary embodiment, screen display **250** may be configured to permit a user to move scheduled cash flows between individual days. For example, should a user determine that a particular transaction such as a scheduled transfer of funds out of a particular account will cause the account balance for that account to become negative, the user may choose to reschedule the transaction by moving (e.g., dragging and dropping, entering a new date into a text box, etc.) the transaction from one day to another day (e.g., to a later date after a positive inflow of cash such as a direct deposit from a payroll, etc.). Upon the user moving one or more cash flows to different days **258** on calendar **252**, cash flow planning logic **144** may recalculate the daily account balances and provide an updated version of calendar **252**, such that a user may confirm, for example, that any projected negative account balances have been eliminated.

(64) Referring to FIG. 6A, a screen display **300** is shown according to an exemplary embodiment. Screen display **300** may provide the user with a graph (e.g., a line graph, a bar chart, etc.) such as line graph **302** that provides the user with a graphical representation of cash flows and/or account balances of a user. For example, graph **302** may provide account balance values **304** along one axis (e.g., the y-axis) and dates **306** along a second axis (e.g., the x-axis). A line **308** may show how various cash flows impact the account balance over time. Graph **302** may further include a number of indicators **310** that include an indication (e.g., an icon, graphical indication, display image, etc.) of the type of cash flow or transaction that has occurred or is scheduled to occur. Graph **302** enables users to identify the types and amounts of cash flows that impact their account balances over time.

(65) According to one embodiment, graph **302** may be configured to provide data on a monthly basis (e.g., on a calendar month basis, on a 30-day basis, etc.) or for some other period of time. In some embodiments, graph **302** may provide the user with a beginning account balance, or current balance, and an ending account balance **312** for the period of time (e.g., “What’s Left After all the bills are paid.”). Providing a user with ending account balance **312** may provide the user with insight into whether the user has a net positive or negative cash flow, whether the user has the opportunity to use surplus cash flows in other areas (e.g., retirement planning, debt repayment, specific savings plans, and so on), etc. Further, ending account balance **312** may be accessed by various other logic components in order to automatically identify similar opportunities (e.g., to develop a retirement savings plan, a debt payment plan, a specific savings plan for vacation, etc., and so on).

(66) According to an exemplary embodiment, screen display **300** and graph **302** may be configured (e.g., by cash flow planning logic **144** and/or network interface logic **124**) to permit a user to move scheduled cash flows along graph **302** (e.g., between different dates). For example, a user may wish

to avoid having a negative balance, so a user may be able to defer certain transactions until a later date. In such a case, a user may select an individual cash flow (e.g., by clicking on, highlighting, etc.) and move (e.g., drag, etc.) the cash flow to a new date. Upon the user moving one or more cash flows, cash flow planning logic **144** may update graph **302**, including the account balances, to reflect the rescheduled cash flows.

(67) According to an exemplary embodiment, cash flow planning logic **144** may be further configured to provide one or more alerts to a user. For example, as discussed above, projected account balances may be calculated for a future period of time, and cash flow planning logic may be configured to provide an alert to a user indicating that the account balance is projected to become negative. The alert may be provided in a variety of ways, including email, a text message, SMS (short message service), and so on. An exemplary screen shot enabling users to set up and/or modify a number of user alerts is discussed with respect to FIG. **12**.

(68) Referring now to FIG. **6B**, a screen display **810** is shown according to an example embodiment. Screen display **810** may be similar to screen display **250** illustrated in FIG. **5**, in that screen display **810** provides a calendar **824** that includes historical and/or future cash flow and account balance data for one or more user accounts. Screen display **810** may include a select account option **812**, an account identifier **814**, an overdraft option **816**, and a viewing option **818**. Select account option **812** enables a user to identify one or more accounts, identified by account identifier **814**, to be represented on display **810**. Overdraft option **816** provides the user with the option of setting up an overdraft account to provide overdraft protection for the user. Viewing options **818** may be selectable to provide a variety different of formats for display **810**, such as line graphs, calendars, bar charts, multi-account views, and so on.

(69) Referring further to FIG. **6B**, calendar **824** may display a calendar view of individual days **826**, including a current day **836**. Each of days **826** may include one or more of a status indicator **828**, an account balance **830**, and an alert **832**. Status indicator **828** may indicate whether there is any activity regarding one or more accounts on a particular day, and may further indicate the nature of the activity (e.g., whether the activity was a cash inflow or a cash outflow). For example, as shown in FIG. **6B**, status indicator **828** may be an arrow that points upward if there is a cash inflow, and downward if there is a cash outflow. Further, the color of status indicator **828** may be linked to cash inflows/outflows (e.g., blue or green for cash in flows, red or orange for cash outflows, etc.). Alert **832** may provide the user with, for example, an indication that one or more accounts are projected to be overdrawn on a certain day or a number of days. For example, as shown in FIG. **6B**, the user's account balance is scheduled to be negative \$88.46 as of December 17 (as a result of an anticipated cash outflow), and not be positive again until December 21 (as a result of an anticipated cash inflow). During this period, an alert **832** is provided for each individual day (e.g., an image or icon such as a yellow triangle/exclamation point, etc.). Furthermore, in some embodiments, any days for which a user is projected to have a negative balance may be shaded, colored, etc. so as to make any such days easily identifiable by a user.

(70) In one embodiment, a date range **820** and date range selector **822** may be provided as part of display **810**. Date range **820** may be provided along a side or bottom of calendar **824**, and may provide a larger date range than that provided by calendar **824**. For example, while calendar **824** may include a time period of approximately 4-6 weeks, date range **820** may include a date range of 10-14 months. Date range selector **822** may be movable along date range **820** (e.g., via use of a computer mouse, etc.), such that the dates shown in calendar **824** reflect the dates chosen by a user via date range selector **822**. While date range **820** is represented in FIG. **6B** as a ruler-type display with dates along one edge, a variety of methods of display date range **820** may be used according to various alternative embodiments (e.g., miniaturized calendar displays, a pull-down menu of selectable months, weeks, etc., and so on). Furthermore, as an alternative to using date range selector **822**, a user may select one of scrolling options **838**, which act to scroll the displayed dates upward or downward based on user inputs.

(71) According to one embodiment, display **810** may further include options **840**, **842**. Option **840** may be a “Schedule Payment or Transfer” option that enables a user to schedule a bill payment or transfer for a particular day. Option **842** may be an “Adjust Cash Flow” option that directs a user to a transaction planning screen where a user can adjust the dates, amounts, etc. of planned transactions. Alternatively, transfers and other cash flows can be scheduled, re-scheduled, etc. by a user selecting any individual day **826**.

(72) Referring to FIGS. **6C** and **6D**, a screen display **760** is shown according to an example embodiment. Display **760** may be similar to display of the graph **302** shown in FIG. **6A**, in that screen display **760** may provide a line graph such as graph **770** that indicates the account balance for one or more accounts over a specific time period. Display **760** may include an account selection option **762**, an account identifier **764**, an overdraft option **766**, and viewing options **768**.

(73) Graph **770** may include a line **776** and a number of transaction indicators **778**. Line **776** tracks the historic and projected account balances for one or more specific accounts (selected via account selection option **762** and identified by account identifier **764**) and provides indicators **778** for any days having account activity (deposits, payments, etc.). Further graph **770** may include a current date indicator **780** that indicates the current date (e.g., via a dashed line, a colored line, etc.) and a zero-balance indicator **782** that represents a zero account balance for the accounts represented by graph **770**. Further, a date range selector **788** may be provided and function similarly to date range selector **822** discussed with respect to FIG. **6B**.

(74) Referring to FIG. **6D**, in some embodiments, indicators **778** are selectable such that a user is presented with additional financial data associated with a particular day. For example, a pop-up or other type of image **796** may be provided that identifies one or more transactions **798** (e.g., a mortgage payment, insurance payment, a deposit, etc.) and further provides an account balance field **800** that identifies the account balance for that day. Image **796** may further include a menu **802** of options (e.g., bill payment scheduling, transfer activity, other account activity, etc.) that direct a user to other financial planning and account data. According to one embodiment, a user may select any one of a number of indicators **778** and be provided with similar information to that shown as part of image **796**. Further, users may edit any or all of the data provided as part of image **796**, and screen display **760** will then be updated accordingly to reflect any such modifications.

(75) Referring to FIG. **6E**, a screen display **850** is shown according to an example embodiment. Screen display **850** may enable a user to view and/or modify a “buffer” for one or more accounts. In one embodiment, a buffer is a minimum account balance that is determined based on historical monthly spending of a user. As shown in FIG. **6E**, a user may be provided with an option **892** that enables a user to select a historic time period (e.g., 3 months, 6 months, etc.) over which to determine a buffer. Spending logic **145** may then calculate a recommended buffer amount in buffer field **894** (e.g., such as \$1200 as shown in FIG. **6E**).

(76) Referring further to FIG. **6E**, a graph **852** (e.g., a historic buffer graph) may be provided that includes a line **854** representing an account balance and lines **856**, **858**, **868** that represent historic buffer amounts for various time periods (e.g., on a per month basis, etc.). The time period used to generate graph **852** may be selected by moving a date range selector **882** along a date range **880** to a desired date range or time period. A graph **870** (e.g., a current buffer graph) may also be provided that includes a line **872** representing the current account balance and a line **874** that represents a recommended current buffer amount. An option **876** (“Get Buffer Alerts”) may be provided in order to permit a user to receive a notification (e.g., an email, text message, SMS, etc.) whenever the user's account balance falls below the buffer. Additional links **890** may further be provided that enable a user to access additional tools and data.

(77) Referring now to FIG. **6F**, savings planning logic **140** may be configured to enable a user to set up one or more savings goals, rainy day funds, etc. For example, a user may wish to set savings goals for a new car, a vacation, or for funding a child's education. Savings planning logic **140** may be configured to enable a user to enter certain parameters of a savings goal, such as a total savings

goal, a due date, etc., and then further enable the user to track the user's progress of reaching the goal. Further, by analyzing the user's overall spending and savings habits, savings planning logic **140** may suggest how a user may allocate funds most effectively to meet various savings goals. (78) As shown in FIG. **6F**, savings planning logic **140** and/or network interface logic **124** may be configured to provide a screen display such as screen display **900** to a user. According to one embodiment, display **900** provides various savings goals and similar information for a particular account. A user may use an account selection option **902** to select a desired account, which is identified by an account identifier **904**. An account balance field **906** may indicate the current account balance. A user may set up multiple savings goals for an individual account.

(79) Referring further to FIG. **6F**, savings planning logic **140** may enable a user to set up a “rainy day” fund (e.g., an emergency fund, etc.) that may be used to maintain a certain amount of funds to cover emergencies, unexpected expenses, or other activities. According to one embodiment, a screen portion **908** may provide various data and information regarding setting up a savings fund such as a rainy day fund. Screen portion **908** may include a graphical indicator **912**, a status indicator **914**, and account set-up options **916**, **918**. Graphical indicator **912** may be a picture, image, or other graphical indicator and may provide a representation of a specific fund or goal. A user may select indicator **912** from a number of images that may be provided to a user, or alternatively, a user may create or download a custom image to be used as indicator **912**. Status indicator **914** may provide the user with an indication of the user's progress toward a savings goal. For example, status indicator **914** shown in FIG. **908** is a status bar that indicates that the user is 100% complete with reaching a goal of \$1000 in savings. According to various other embodiments, other types of status indicators may be used to track a user's progress toward a savings goal.

Account set-up options **916**, **918** enable user to identify which goals or funds to deposit funds into first, and withdraw funds from first. For example, a user may indicate that he or she wishes to complete a first savings goal before a second savings goal. The user may utilize options **916**, **918** to indicate that funds are to be deposited first into the first savings goal, and withdrawn first from the second savings goal, thereby maximizing the amount of funds going toward the first savings goal.

(80) Referring further to FIG. **6F**, in addition to a fund such as a rainy day fund, savings planning logic **140** may be configured to further enable a user to set up savings goals for a wide variety of goals. As shown in FIG. **6F**, a screen portion **910** may provide data or information regarding one or more savings goals. For example, a first goal may be a new car, and may be represented by a graphical indicator **912** and a status indicator **920**. A second goal may be a new kitchen table, and may be represented by a graphical indicator **912** and a status indicator **922**. For each goal, savings planning logic **140** may provide a total goal amount, an amount saved to date, and a percentage of the goal reached. Savings planning logic **140** may further provide other indicators such as how far along a user should be toward reaching a savings goal at any point in time, and so on.

(81) According to one embodiment, savings planning logic **140** may provide options **930** to a user to enable a user to identify the amount of funds to be allocated to each savings goal for a given time period (e.g., on a monthly basis, etc.). A total transfer amount field **932** identifies a total amount to be transferred to a specific account and allocated to specific savings goals. A transfer information area or portion **934** may provide additional details regarding specific fund transfers, such as account numbers, transfer amounts, recurrence date and/or frequency, etc. Savings planning logic **140** and/or network interface logic **124** may also provide one or more options **924**, **926**, **928** that are selectable by a user to direct the user to various other screen displays and interfaces that enable a user to add a new savings goal, reallocate current funds between savings goals, view account activity, and perform other financial planning and account management functions.

(82) Referring now to FIGS. **7-9**, retirement planning logic **146** may be configured to generate one or more different types of retirement plans for users. For example, prior to retirement age (e.g., during an “accumulation” period), users may be primarily interested in planning and managing a retirement plan intended to permit the user to accumulate sufficient savings to retire at a certain age

and be able to sustain a certain standard of living (e.g., providing certain levels of spending). Similarly, after retirement age (e.g., during actual retirement), users may be primarily interested in planning and managing a retirement plan intended to permit the user to maintain certain spending levels while maintaining sufficient savings to last throughout the retirement period. Retirement planning logic **146** may provide user with plans, reports, alerts, etc. to address both of these needs. (83) Referring to FIG. 7, a screen display **350** is shown according to an exemplary embodiment. Screen display **350** may be provided by retirement planning logic **146** and/or network interface logic **124**, and may be accessed, for example, by a user selecting a retirement planning module that may be displayed as part of a screen display such as screen display **350** shown in FIG. 3. In some embodiments, screen display **350** may enable a user to provide one or more inputs regarding a retirement plan, which may be one or both of a retirement savings plan (e.g., for use during the accumulation period) and a retirement spending (or budgeting) plan (e.g., for use during the retirement period). As shown in FIG. 7, screen display **350** may list a number of transaction or spending categories **352** (e.g., housing, food, health care, etc.) that may represent the major expense categories for retirees. In some embodiments, users may be able to add, delete, or define custom categories to be displayed as part of screen display **350**. In other embodiments, categories **352** may be automatically selected by retirement planning logic **146** based on spending categories within a budget plan for a user, as discussed in greater detail with respect to FIG. 11.

(84) According to one embodiment, retirement planning logic **146** may be configured to pre-populate projected spending amounts **354** (e.g., projected weekly spending amounts, projected monthly spending amounts, etc.) based on account data of the user stored in data storage system **128**. For example, data storage system **128** may store historic spending data (e.g., average spending amounts per category) for categories **352**, and retirement planning logic **146** may be configured to determine projected spending amounts **354** based on accessing the historic spending data. In alternative embodiments, projected spending amounts **354** may be based on other data, such as budgeted cash flow amounts from one or more budget plans of the user, and so on. According to an exemplary embodiment, retirement planning logic **146** may permit a user to modify any of the pre-populated spending amounts by manually entering or otherwise providing inputs to identify a projected spending amount **354** for one or more of categories **352**. A total projected spending amount **356** may be provided via screen display **350** and may represent the total projected spending amount for the user over a certain period of time, such as one month, one week, one year, and so on.

(85) In some embodiments, retirement planning logic **146** may further permit a user to enter the user's current age **358** and the user's expected retirement age **360**. Alternatively, these values may be accessed from a user profile stored in data storage system **128** or may be based on default values (e.g., age 65 as an expected retirement age). Retirement planning logic **146** may use current age **358** and expected retirement age **360** in the determination of various values incorporated into one or more retirement plans, including savings requirements (e.g., to take into account the amount of time the user has to save a certain amount), spending projections (e.g., to take into account an expected length of retirement and project savings levels accordingly), and so on.

(86) Retirement planning logic **146** may further be configured to determine an estimated or projected periodic spending amount **362** (e.g., a monthly spending level), a periodic savings requirement **363** (e.g., a monthly savings amount required to meet a total savings goal), and/or a total savings requirement **364** (e.g., a total amount required to maintain spending at desired levels throughout retirement). Spending amount **362**, savings requirement **363**, and savings requirement **364** may provide the user with insight into whether the user needs to modify one or more parameters of the retirement plan to, for example, make one more of spending amount **362**, savings requirement **363**, and savings requirement **364** more attainable and/or more practical based on the individual user.

(87) As further shown in FIG. 7, a user may save a retirement plan by selecting option **366**

("Save"). In some embodiments, a user may be permitted to save numerous retirement plans to permit the user to evaluate various retirement scenarios (e.g., different retirement savings plans, different retirement ages, different spending levels during retirement, and so on). If the user desires to generate a retirement savings plan, a user may select an option **368** ("Retirement Savings Plan") and be directed to a screen display that permits the user to set up and/or modify a savings plan intended to permit the user to accumulate sufficient funds for retirement. Various screen displays, reports, alerts, and so on may be provided to the user in order to track the user's progress in reaching a savings goal for retirement.

(88) If a user desires to view and/or edit a budget plan, the user may select an option **370** ("View/Edit Budget") and be directed to a budget plan or report, for example, as shown in greater detail in FIG. **11**. Accessing a budget plan may provide the user with information regarding additional savings opportunities (e.g., by identifying discretionary spending trends that may be reduced to generate additional savings amounts for retirement). Similarly, if a user selects an option **372** ("Advice/Tips"), the user may be provided with customized guidance regarding retirement planning. For example, retirement planning logic **146** may access account data stored in data storage system **128** for one or more accounts of a user, and based upon accessing this data, provide suggestions as how to reduce spending, increase savings, etc., in order to assist the user in realizing the user's retirement goals.

(89) Referring now to FIG. **8**, a screen display **400** is shown according to an exemplary embodiment. Screen display **400** may be provided as an individual screen display, or may be incorporated into one or more other screen displays (e.g., as a display module presented as part of a summary display of account information, such as screen display **150** shown in FIG. **3**). As shown in FIG. **8**, screen display **400** may provide a user with a chart such as bar chart **402** indicating the user's progress toward a retirement savings goal (e.g., a projected retirement savings requirement, etc.), including a current savings amount **404**, a projected savings amount **406**, and a savings goal **408** (e.g., a total savings requirement for retirement, a yearly savings goal, etc.). Chart **402** is intended to provide users with a simplified representation of the user's progress toward a retirement savings goal. For example, chart **402** may provide a user with a representation of the amount the user has actually saved and the amount the user should have saved, based on the user's age and the user's expected retirement age. As shown in FIG. **8**, chart **402** reflects a deficit of funds saved relative to the amount of funds estimated as being required to meet savings goal **408**. In some embodiments, actual dollar amounts **416**, **418**, and **420** may be provided for current savings amount **404**, projected savings amount **406**, and savings goal **408**, respectively.

(90) In some embodiments, a user may be provided with options **410**, **412**, and **414**. Option **410** ("Savings Plan") may permit user to generate, view, and/or modify a savings plan intended to assist the user in meeting savings goal **408**. Option **412** ("Budget") may permit a user to generate, view, and/or modify a budget plan intended to assist the user in identifying additional potential savings opportunities. Similarly, option **414** ("Advice/Tips") may permit users to view customized guidance regarding a user's retirement plan and/or other financial plans. For example, should a user be lagging behind in reaching savings goal **408**, option **414** may direct the user to resources such as a savings and/or budget plan that may help in modifying the user's savings/spending habits. As another example, should a user be ahead of pace in reaching savings goal **408**, option **414** may provide the user with other possible uses for excess funds (e.g., such as paying down debt, saving for other, specific savings goals (e.g. such as a vacation, school tuition, etc.)).

(91) Referring to FIG. **9**, a screen display **450** is shown according to an exemplary embodiment. Screen display **450** may be provided as an individual screen display, or may be incorporated into one or more other screen displays (e.g., as a display module presented as part of a summary display of account information, such as screen display **150** shown in FIG. **3**). As shown in FIG. **9**, screen display **450** may provide a user with a chart such as bar chart **452** indicating the user's status regarding a retirement spending plan (e.g., a spending plan intended to provide for appropriate

spending levels over the duration of a user's retirement, etc.), including a budgeted spending amount **454** and an actual spending amount **456** for a given time period (e.g., one month, etc.). Chart **452** is intended to provide users with a simplified representation of the user's spending relative to budgeted amounts. As shown in FIG. **9**, chart **452** reflects that the user's actual spending exceeds the budgeted spending for a particular time period. In some embodiments, actual dollar amounts **464**, **466** may be provided for budgeted spending amount **454** and actual spending amount **456**.

(92) According to an exemplary embodiment, screen display **450** may include options **460**, **462**. As similarly discussed with respect to screen display **400** shown in FIG. **8**, options **460** ("Budget") and option **462** ("Advice/Tips") may provide the user the ability to generate, view, and/or modify one or more budget plans, or to access additional guidance regarding retirement spending. Other options may be provided as part of screen display **450** according to various alternative embodiments.

(93) According to an exemplary embodiment, retirement planning logic **146** may be further configured to provide one or more alerts to a user. For example, should a user's actual savings progress indicate that the user will likely not meet a retirement savings goal at a current savings rate, or should a user's actual spending levels indicate that a user's savings may not last for the duration of the user's retirement, one or more alerts may be provided to the user. The alert may be provided in a variety of ways, including email, a text message, SMS (short message service), and so on. The alert may further include links to additional displays and other information that provide the user with helpful guidance on getting back on track regarding retirement savings and/or spending habits of the user. An exemplary screen shot enabling users to set up and/or modify a number of user alerts is discussed with respect to FIG. **12**.

(94) Referring now to FIG. **10A**, a screen display **500** is shown according to an exemplary embodiment. Screen display **500** may be provided by debt management logic **148** and/or network interface logic **124**, and may be accessed, for example, by a user selecting a debt management module that may be displayed as part of a screen display such as screen display **150** shown in FIG. **3A**. In some embodiments, screen display **500** may enable a user to provide one or more inputs regarding a debt payment plan, which may include one or more sources of debt. The debt payment plan may be intended to permit the user to pay off debt related to one or more accounts over a period of time by making periodic payments.

(95) According to one embodiment, debt management logic **148** may be configured to access data in data storage system **128** to identify various amounts of debt owed by a user (e.g., auto loans, credit card debt, debt to individual retail entities, and so on), and to provide a graph or chart such as pie chart **502**. Chart **502** may provide the user with a consolidated view of the debt owed by the user for accounts processed by system **110**. In some embodiments, debt management logic **148** may be further configured to access and aggregate data regarding a user's accounts at third-party institutions, such that chart **502** may provide a more complete picture of the user's overall debt situation. Screen display **500** may provide a total debt amount **508**, and determine a periodic payment amount **509** (e.g., a monthly payment, etc.) and a time period **511** (e.g., a number of months, years, etc.) within which total debt amount **508** may be paid off based on periodic payment amount **509**.

(96) According to an exemplary embodiment, debt management logic **148** may access data stored in data storage system **128** and/or interface with one or more logic components such as budgeting logic **142** in order to generate a debt payment plan that includes periodic payments intended to pay off a user's debt over a period of time. For example, debt management logic **148** may access a budget and/or spending plan to identify, for example, surplus monthly cash flows, discretionary spending amounts, excess savings amounts, etc., usable to assist in payment of debt owed by a user. Such data may further be used to accelerate an existing debt payment plan (e.g., such that an existing amount of debt is paid off in a shorter time frame than previously planned).

(97) In some embodiments, debt management logic **148** may track the user's progress in paying down one or more amounts of debt. For example, as shown in FIG. **10A**, a bar chart **510** may show a goal **514** that represents an amount of debt a user hopes to reduce the user's current debt to within a certain period of time, such as one month, etc. The user's current debt **512** may be displayed adjacent goal **514** in order to provide the user with a graphical indication of the relative progress of the user. Screen display **500** may further indicate an amount **516** required to reach the current goal. Similarly, a line graph **518** may show a user's debt amount **520** over time periods **522** via a line **524**, and further indicate an average monthly debt amount **526**.

(98) Referring further to FIG. **10A**, screen display **500** may include one or more discrete screen portions **534**, **536**, **538**. In some embodiments, one or more of screen portions **534**, **536**, **538** may be provided as an individual screen display, or alternatively, as a display module that makes up part of a larger screen display such as that shown in FIG. **3A**. Furthermore, the arrangement of screen portions **534**, **536**, **538** as shown in FIG. **10A** may be modified according to various alternative embodiments.

(99) Referring now to FIG. **10B**, in some embodiments, debt management logic **148** and/or network interface logic **124** may be configured to provide a screen display such as screen display **950** ("Debt Monitor"). Display **950** may provide a user with data and other information regarding a user's historic, current and/or projected debt levels for one or more accounts (e.g., credit or loan accounts, etc.). An account selection option **956** may be used to select one or more accounts to be represented in display **950**, and an account identifier **958** may identify a specific account selected by a user. A graph **952** may provide historic, current, and/or projected debt levels and other related data and information for a user over a period of time. For example, as shown in FIG. **10B**, graph **952** includes a number of status bars **960** that each provide a historic debt level for a specific month, and a current status bar **962** that provides the current debt level. A change indicator **966** may indicate a change in debt from month to month. For example, as shown in FIG. **10B**, the user's debt increased by \$300.03 between July 2008 and August 2008. The time period represented by graph **952** may be selected by a user moving date range selector **968** along date range **954**.

(100) According to one embodiment, debt management logic **148** may be configured to identify a source of debt via an indicator **972**. For example, as shown in FIG. **10B**, indicator **972** identifies a credit card as being the source of \$700.50 of debt for the month of November 2008. Other ways of indicating the source of debt may be used according to various other embodiments. For example, the various status bars shown in FIG. **10B** may be shaded using different shading techniques, colors, etc., with each different shade representing a different source of debt (e.g., such that a single status bar may include a number of different shading types, each representing a different source of debt). Actual debt amounts may further be provided for each source of debt.

(101) According to an exemplary embodiment, debt management logic **148** may be further configured to provide one or more alerts to a user. For example, should a user's current total debt (or other, specific debt amount) exceed a predetermined threshold, one or more alerts may be provided to the user. The alert may be provided in a variety of ways, including email, a text message, SMS (short message service), and so on. The alert may further include links to additional displays and other information that provide the user with helpful guidance on getting back on track regarding debt payment habits of the user (e.g., by identifying discretionary spending that may be used instead to pay off debt, etc.). An exemplary screen shot enabling users to set up and/or modify a number of user alerts is discussed with respect to FIG. **12**.

(102) As discussed above, budgeting logic **142** and/or spending logic **145** may facilitate the generation of various reports, etc., by enabling users (or, alternatively, various logic components) to identify potential sources of additional funds that may be used for savings goals, debt payment, etc. Referring to FIG. **11**, a screen display **600** is shown according to an exemplary embodiment. Screen display **600** may be a spending report and budget plan interface (e.g., generated by one or more of budgeting logic **142**, spending logic **145**, and/or network interface logic **124**) that provides

a display of cash flow information and budget information simultaneously for a variety of categories. Alternatively, spending and budgeting data may be presented in a similar manner but in separate screen displays or reports. Screen display **600** may identify accounts **602** that are included in the report, inflow transactions **604**, outflow transactions **606**, and payments **608** for credit card purchases and advances. A budget summary **610** may further be provided. As also shown in FIG. **11**, an option **612** may provide a user with, for example, a drop-down menu that enables a user to view credit card transactions only, check card transactions only, etc., or create a customized view. The various transactions may be categorized into transaction categories **614**, and user interface **600** may provide a current cash flow amount **616** (e.g. month to date) and cash flow amounts **618**, **620** for the previous two months (or other time periods).

(103) In addition, in FIG. **11**, screen display **600** may further provide budget cash flow amounts **622** (e.g., budget goals) and over/under amounts **624** for the current month. The over/under amounts **624** may represent the amount that the actual spending/saving of a user (as, for example, indicated by current cash flow amounts **616**) is over or under budget cash flow amounts **622**. According to an exemplary embodiment, over/under amounts that indicate that a user is outside of the budget cash flow amounts may be displayed in a manner intended to bring such cash flows to the user's attention. For example, over/under amounts may be in a different font color, bold, highlighted, etc.

(104) Referring further to FIG. **11**, a display portion **626** may be provided that includes links such as link **628** ("Edit Budget Plan") that permit the user to navigate to other services and applications. For example, should a user select link **628**, a user may be directed to a user to a screen display that permits the user to adjust one or more budget cash flow amounts in the user's budget. Additional links **630** may further be provided in order to provide the user with additional financial and other information. A graphical display **632** may provide the user with a graphical representation **634** and associated listing **636** of spending trends for various transaction categories **614** over certain time periods of time (e.g., over specific months, averaged over specific months, etc.).

(105) According to an exemplary embodiment, should a user wish to view screen display **600** without the budget data (e.g., budget cash flow amounts **622** and over/under cash flow amounts **624**), a user may select an option **640** ("Hide Budget Plan"), upon which the user may be presented with only actual cash flow amounts. Further, according to another exemplary embodiment, a link **642** ("Budget Alerts") may be provided. Link **642** may be configured to direct a user to a separate user interface or screen display that enables a user to configure various types of budget alerts based on the user's current budget data and cash flow amounts.

(106) In some embodiments, the average cash flow amounts may be determined over a predetermined time period that may be user-configurable such that a user may adjust the time period between varying lengths of time (e.g., 12 months, 6 months, 3 months, etc.). Furthermore, budgeting logic **142** may populate various budget cash flow amounts (e.g., monthly goals or targets for savings, spending, etc.) for various transaction categories with the average cash flow amounts for the category.

(107) Various of the logic components described herein may be configurable to provide users with alerts, reports, or other periodic status indicators, etc. Referring to FIG. **12**, a screen display **650** is shown according to an exemplary embodiment. Screen display **650** may enable users to create, view, and/or modify alerts for various applications and financial planning purposes. For example, as shown in FIG. **12**, a user may modify one or more parameters related to security and general alerts **652** (e.g., a user name, a password, access limitations, etc.), personal checking account alerts **654** (e.g., an overdraft alert, etc.), personal savings account alerts **656**, mortgage alerts **658**, and budget alerts **660**. According to various alternative embodiments, different types of alerts than those shown in FIG. **12** may further be included as part of screen display **650**.

(108) In some embodiments, a user may view a sample alert by selecting an option **664**, upon which a user may be presented with, for example, a sample email or text message that would be

generated should the user trigger an alert. Further, a user may modify the parameters of one or more alerts by selecting an option such as option **666** (“Modify”), upon which a user may be provided with a screen display that enables a user to modify one or more parameters of a specific alert. According to various embodiments, the parameters utilized for a specific alert may be dependent upon the type of the alert. Some parameters may include a triggering threshold (such as a savings, debt, or spending level), a delivery method (e.g., to trigger automatic, periodic alerts), an addressee, one or more accounts to which the alert relates, and so on. One or more of the alert parameters may be configurable by a user to provide customized alerts based on user preferences. Upon a user configuring one or more alerts, the user may select option **668** (“Save”) upon which the alerts will be saved according to their current parameters.

(109) According to an exemplary embodiment, budget logic **142** may be configured to provide budget data to users and receive inputs from users via one or more automated teller machines (ATMs) such as ATM **118**. As used herein, ATM includes computerized telecommunication devices that are capable of dispensing cash to users and provide users, such as customers of financial institutions, with access to resources of the financial institution from remote locations (e.g., convenience stores, office buildings, etc.) without the need for a bank teller or other human operator. Such machines are often referred to as automated transaction machines, money machines, cash machines, and the like. Such machines may be owned by a financial institution that also offers one or more features of system **110** disclosed herein.

(110) In one embodiment, budget logic **142** offers users with various budget monitoring features, as also discussed elsewhere herein, such that users may access, create, modify, view, etc., budget data via ATMs **118**. For example, budget logic **142** enables users to set up a “budget watch” for cash withdrawals executed via ATMs **118** (e.g., for one or more accounts of the user that may permit ATM cash withdrawals). In some embodiments, budget logic **142** determines budget cash flow amounts (e.g., weekly, monthly, yearly, etc.) for ATM cash withdrawals based on cash withdrawal data stored in data storage system **128**. Budget cash flow amounts may be determined based on historic averages of ATM cash withdrawals, or alternatively, according to any of the methods described elsewhere herein. Budget logic **142** may further be configured to predict a maximum available amount of funds available for ATM cash withdrawals based on the cash withdrawal and other data stored in data storage system **128** (e.g., by identifying surplus funds, etc.).

(111) According to one embodiment, budget logic **142** may determine one or more budget cash flow amounts and provide them to a user, for example, via ATM **118**. The user may then provide an input via ATM **118**. The input may indicate that the user wishes to accept the budget cash flow amounts, reject the budget cash flow amounts, or modify the budget cash flow amounts. Budget logic **142** may then confirm or modify the appropriate budget cash flow amounts based on the input.

(112) Once the budget cash flow amounts are determined, budget logic **142** monitors ATM cash withdrawals for the user. Budget logic **142** may be configured to provide one or more notifications to a user (e.g., to a user's mobile device, to a user's personal computer, or to an ATM being utilized by the user, etc.) indicating a current amount of ATM cash withdrawals relative to the budget cash flow amounts. For example, notifications may be provided after a budget cash flow has been exceeded, during an ATM transaction, indicating that the current transaction will result in a budget cash flow amount being exceeded, or upon the current ATM cash withdrawals coming within a certain dollar amount (e.g., \$100, \$500, etc.) of a budget cash flow amount. In this way, a user may be kept informed of their current status regarding the budget cash flow amounts for ATM cash withdrawals.

(113) In some embodiments, notifications may be provided to user via ATMs **118**. In other embodiments, notifications may also or alternatively be sent to another computing device of the user, and the user may customize how and where he or she would like to receive the notifications (e.g., the frequency of notifications, the configuration of the notifications, the triggering events for

notifications being sent, one or more destinations for the notifications, etc.).

(114) It should be understood that the various embodiments of data processing system **110** discussed herein provide many advantages over more typical financial applications or tools. For example, system **110** provides a wide variety of financial planning tools that may be integrated with and have direct access to data storage system **128**, which, as discussed above, serves as the system of record for the user account data, thereby ensuring the integrity of the data utilized by the various logic and other components discussed herein. Further, due to the integrated arrangement of system **110**, users may be provided with reliable and relevant advice and guidance that may be automatically customized for the user based on the user's individual financial situation and goals. Further yet, system **110** is able to track a user's progress toward any of a wide variety of financial goals such as savings goals, debt payment goals, and so on, and provide the user with user-configurable status updates and alerts based on various parameters.

(115) The embodiments of the present disclosure have been described with reference to drawings. The drawings illustrate certain details of specific embodiments that implement the systems and methods and programs of the present invention. However, describing the invention with drawings should not be construed as imposing on the invention any limitations that may be present in the drawings. The present invention contemplates methods, systems and program products on any machine-readable media for accomplishing its operations. The embodiments of the present invention may be implemented using an existing computer processor, or by a special purpose computer processor incorporated for this or another purpose or by a hardwired system.

(116) As noted above, embodiments within the scope of the present invention include program products comprising machine-readable media for carrying or having machine-executable instructions or data structures stored thereon. Such machine-readable media can be any available media that can be accessed by a general purpose or special purpose computer or other machine with a processor. By way of example, such machine-readable media can comprise RAM, ROM, EPROM, EEPROM, CD-ROM or other optical disk storage, magnetic disk storage or other magnetic storage devices, or any other medium which can be used to carry or store desired program code in the form of machine-executable instructions or data structures and which can be accessed by a general purpose or special purpose computer or other machine with a processor. Thus, any such a connection is properly termed a machine-readable medium. Combinations of the above are also included within the scope of machine-readable media. Machine-executable instructions comprise, for example, instructions and data which cause a general purpose computer, special purpose computer, or special purpose processing machines to perform a certain function or group of functions.

(117) Embodiments of the present invention have been described in the general context of method steps which may be implemented in one embodiment by a program product including machine-executable instructions, such as program code, for example in the form of program modules executed by machines in networked environments. Generally, program modules include routines, programs, objects, components, data structures, etc. that perform particular tasks or implement particular abstract data types. Machine-executable instructions, associated data structures, and program modules represent examples of program code for executing steps of the methods disclosed herein. The particular sequence of such executable instructions or associated data structures represent examples of corresponding acts for implementing the functions described in such steps.

(118) As previously indicated, embodiments of the present invention may be practiced in a networked environment using logical connections to one or more remote computers having processors. Those skilled in the art will appreciate that such network computing environments may encompass many types of computers, including personal computers, hand-held devices, multi-processor systems, microprocessor-based or programmable consumer electronics, network PCs, minicomputers, mainframe computers, and so on. Embodiments of the invention may also be practiced in distributed computing environments where tasks are performed by local and remote

processing devices that are linked (either by hardwired links, wireless links, or by a combination of hardwired or wireless links) through a communications network. In a distributed computing environment, program modules may be located in both local and remote memory storage devices. (119) An exemplary system for implementing the overall system or portions of the invention might include a general purpose computing computers in the form of computers, including a processing unit, a system memory or database, and a system bus that couples various system components including the system memory to the processing unit. The database or system memory may include read only memory (ROM) and random access memory (RAM). The database may also include a magnetic hard disk drive for reading from and writing to a magnetic hard disk, a magnetic disk drive for reading from or writing to a removable magnetic disk, and an optical disk drive for reading from or writing to a removable optical disk such as a CD ROM or other optical media. The drives and their associated machine-readable media provide nonvolatile storage of machine-executable instructions, data structures, program modules and other data for the computer. It should also be noted that the word "terminal" as used herein is intended to encompass computer input and output devices. User interfaces, as described herein may include a computer with monitor, keyboard, a keypad, a mouse, joystick or other input devices performing a similar function.

(120) It should be noted that although the diagrams herein may show a specific order and composition of method steps, it is understood that the order of these steps may differ from what is depicted. For example, two or more steps may be performed concurrently or with partial concurrence. Also, some method steps that are performed as discrete steps may be combined, steps being performed as a combined step may be separated into discrete steps, the sequence of certain processes may be reversed or otherwise varied, and the nature or number of discrete processes may be altered or varied. The order or sequence of any element or apparatus may be varied or substituted according to alternative embodiments. Accordingly, all such modifications are intended to be included within the scope of the present invention. Such variations will depend on the software and hardware systems chosen and on designer choice. It is understood that all such variations are within the scope of the invention. Likewise, software and web implementations of the present invention could be accomplished with standard programming techniques with rule based logic and other logic to accomplish the various database searching steps, correlation steps, comparison steps and decision steps.

(121) The foregoing description of embodiments of the invention has been presented for purposes of illustration and description. It is not intended to be exhaustive or to limit the invention to the precise form disclosed, and modifications and variations are possible in light of the above teachings or may be acquired from practice of the invention. The embodiments were chosen and described in order to explain the principals of the invention and its practical application to enable one skilled in the art to utilize the invention in various embodiments and with various modifications as are suited to the particular use contemplated. Other substitutions, modifications, changes and omissions may be made in the design, operating conditions and arrangement of the embodiments without departing from the scope of the present invention.

(122) Throughout the specification, numerous advantages of the exemplary embodiments have been identified. It will be understood of course that it is possible to employ the teachings herein without necessarily achieving the same advantages. Additionally, although many features have been described in the context of a particular data processing unit, it will be appreciated that such features could also be implemented in the context of other hardware configurations.

(123) While the exemplary embodiments illustrated in the figures and described above are presently preferred, it should be understood that these embodiments are offered by way of example only. Other embodiments may include, for example, structures with different data mapping or different data. The invention is not limited to a particular embodiment, but extends to various modifications, combinations, and permutations that nevertheless fall within the scope and spirit of the appended claims.

Claims

1. A non-transitory computer-readable storage media having instructions stored thereon that, when executed, cause a processing circuit to: provide a user with access to online banking via a user device; provide a user interface on the user device comprising a plurality of display areas; and rearrange positions of the plurality of display areas of the user interface based on the user selecting an auto-arrange option, wherein selection of the auto-arrange option causes at least one of the plurality of display areas on the user interface to be arranged in a new position based on account activity of the user.
2. The non-transitory computer-readable storage media of claim 1, wherein each of the plurality of display areas comprises a link that is selectable to direct the user to additional details regarding a service associated with a respective display area.
3. The non-transitory computer-readable storage media of claim 1, wherein the plurality of display areas comprises at least one of a savings planning display area, a graphical spending summary display area, a textual spending summary display area, a budget analysis display area, or a cash flow display area.
4. The non-transitory computer-readable storage media of claim 3, wherein the user interface comprises a summary of spending amounts for the user over a period of time, wherein the budget analysis display area comprises a comparison of budgeted cash flow amounts and cash flow amounts for a plurality of transaction categories over the period of time, and wherein the cash flow display area comprises the cash flow amounts and account balances over the period of time.
5. The non-transitory computer-readable storage media of claim 4, wherein the cash flow display area comprises projected cash flow amounts and projected account balances through a future point in time.
6. The non-transitory computer-readable storage media of claim 3, wherein the plurality of display areas further comprises at least one of a credit management display area, a retirement planning display area, an advice and guidance display area, or a messages and rewards display area.
7. The non-transitory computer-readable storage media of claim 1, wherein the account activity of the user comprises at least one of saving habits of the user or spending habits of the user.
8. The non-transitory computer-readable storage media of claim 7, wherein the account activity is further associated with a plurality of factors comprising at least one of a type of account the user has open, a type of planning service the user is currently utilizing, an age of the user, or a debt of the user.
9. The non-transitory computer-readable storage media of claim 1, wherein at least one of the plurality of display areas comprises an alert based on at least one of a savings amount and a spending amount exceeding a user-configurable threshold.
10. The non-transitory computer-readable storage media of claim 1, wherein the plurality of display areas comprise information that is updated at least on a daily basis based on account data associated with an account associated with the user and stored in a data storage device.
11. A method comprising: providing, by a processing circuit, a user with access to online banking via a user device; providing, by the processing circuit, a user interface on the user device comprising a plurality of display areas; and rearranging, by the processing circuit, positions of the plurality of display areas of the user interface based on the user selecting an auto-arrange option, wherein selection of the auto-arrange option causes at least one of the plurality of display areas on the user interface to be arranged in a new position based on account activity of the user.
12. The method of claim 11, wherein each of the plurality of display areas comprises a link that is selectable to direct the user to additional details regarding a service associated with a respective display area.
13. The method of claim 11, wherein the plurality of display areas comprises at least one of a

savings planning display area, a graphical spending summary display area, a textual spending summary display area, a budget analysis display area, or a cash flow display area.

14. The method of claim 13, wherein the user interface comprises a summary of spending amounts for the user over a period of time, wherein the budget analysis display area comprises a comparison of budgeted cash flow amounts and cash flow amounts for a plurality of transaction categories over the period of time, and wherein the cash flow display area comprises the cash flow amounts and account balances over the period of time.

15. The method of claim 14, wherein the cash flow display area comprises projected cash flow amounts and projected account balances through a future point in time, and wherein the plurality of display areas further comprises a credit management display area, a retirement planning display area, an advice and guidance display area, or a messages and rewards display area.

16. The method of claim 11, wherein the account activity of the user comprises at least one of saving habits of the user or spending habits of the user.

17. The method of claim 16, wherein the account activity is further associated with a plurality of factors comprising at least one of a type of account the user has open, a type of planning service the user is currently utilizing, an age of the user, or a debt of the user.

18. The method of claim 11, wherein at least one of the plurality of display areas comprises an alert based on at least one of a savings amount and a spending amount exceeding a user-configurable threshold.

19. The method of claim 11, wherein the plurality of display areas comprise information that is updated at least on a daily basis based on account data associated with an account associated with the user and stored in a data storage device.

20. A system comprising: a processing circuit having a processor coupled to a memory, the processing circuit configured to: provide a user with access to online banking via a user device; provide a user interface on the user device comprising a plurality of display areas; and rearrange positions of the plurality of display areas of the user interface based on the user selecting an auto-arrange option, wherein selection of the auto-arrange option causes at least one of the plurality of display areas on the user interface to be arranged in a new position based on account activity of the user.
