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Fisher

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(54) BLAZE IN APP PURCHASE WITH AUTHENTICATION USING A REMOTE MANAGEMENT SERVER

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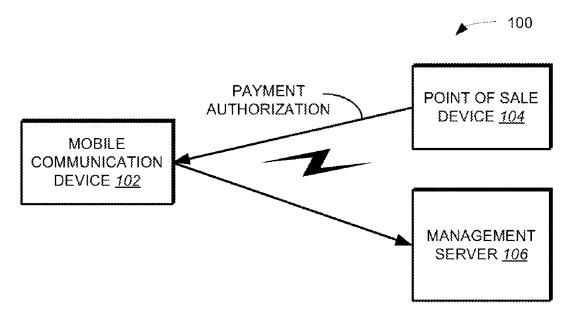
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(57) ABSTRACT

A method and system for receiving digital artifacts from a management server. The method includes sending a request for a digital artifact from a mobile application to the management server for display within a specific mobile application generated screen, receiving the digital artifact from the management server, and displaying the digital artifact with the specific mobile application generated screen.

30 Claims, 4 Drawing Sheets



Related U.S. Application Data

continuation of application No. 14/143,085, filed on Dec. 30, 2013, now Pat. No. 11,367,061, which is a continuation of application No. 13/735,337, filed on Jan. 7, 2013, now Pat. No. 8,620,754, and a continuation of application No. 11/948,903, filed on Nov. 30, 2007, now Pat. No. 8,352,323.

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See application file for complete search history.

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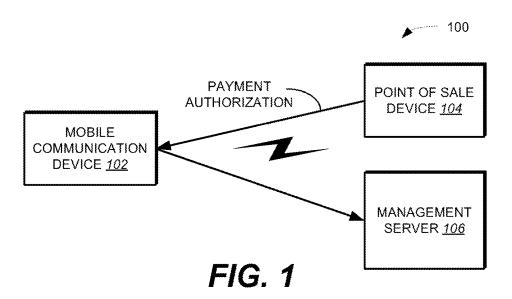




FIG. 2

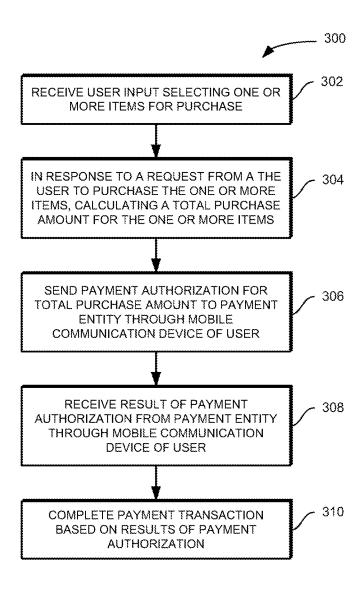


FIG. 3

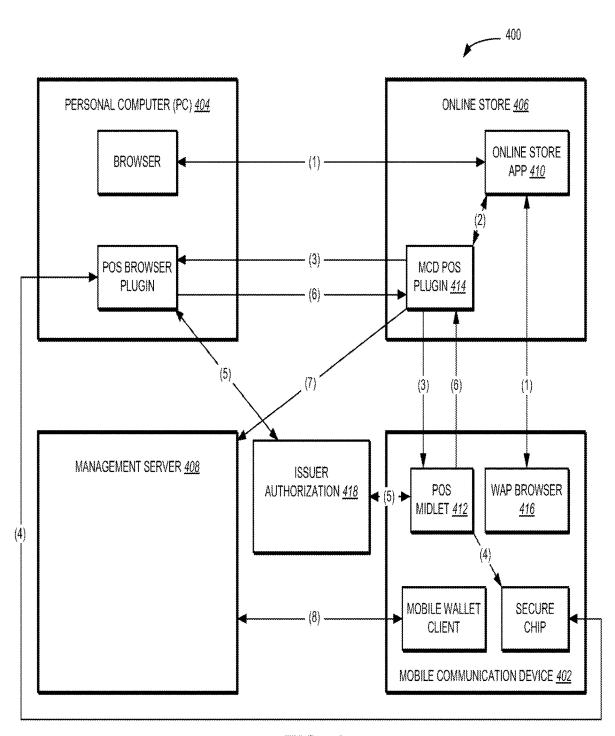
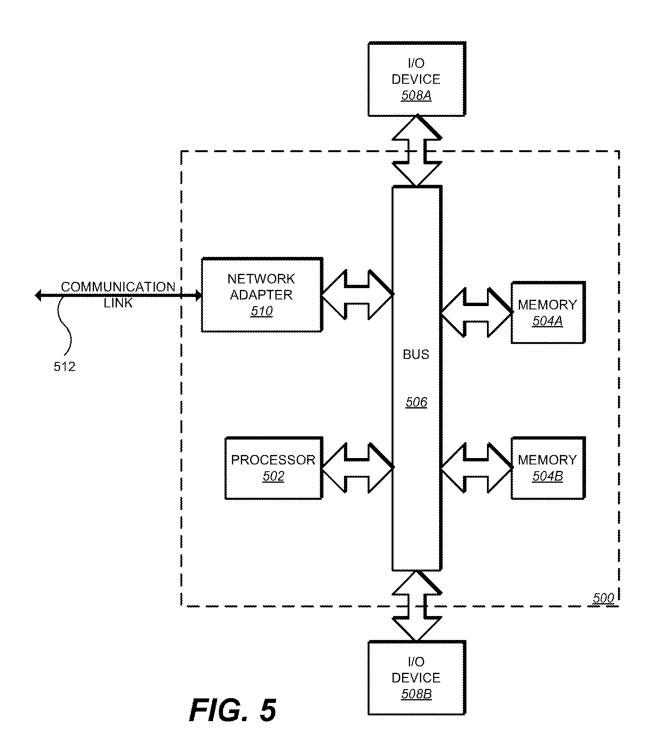


FIG. 4



BLAZE IN APP PURCHASE WITH AUTHENTICATION USING A REMOTE MANAGEMENT SERVER

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation and claims priority to application Ser. No. 17/844,575, filed Jun. 20, 2022, titled "BLAZE NON-BROWSER BASED ADVERTISE- 10 MENTS" which is a continuation and claims priority to application Ser. No. 14/143,085, filed Dec. 30, 2013, titled "REMOTE DELIVERY OF DIGITAL ARTIFACTS" now U.S. Pat. No. 11,367,061 issued on Jun. 21, 2022 which is a continuation and claims priority to application Ser. No. 13/735,337, filed Jan. 7, 2013, titled "REMOTE TRANS-ACTION PROCESSING USING AUTHENTICATION INFORMATION" now U.S. Pat. No. 8,620,754 issued on Dec. 31, 2013 which is a continuation and claims priority to application Ser. No. 11/948,903, filed Nov. 30, 2007, titled 20 "METHOD AND SYSTEM FOR CONDUCTING AN ONLINE PAYMENT TRANSACTION USING A MOBILE COMMUNICATION DEVICE" now U.S. Pat. No. 8,352, 323 issued on Jan. 8, 2013 all of which is incorporated by reference herein in its entirety.

FIELD OF INVENTION

The present invention relates to data communications and wireless devices.

BACKGROUND OF THE INVENTION

Mobile communication devices—e.g., cellular phones, personal digital assistants, and the like—are increasingly being used to conduct payment transactions as described in U.S. patent application Ser. No. 11/933,351, entitled "Method and System For Scheduling A Banking Transaction Through A Mobile Communication Device", and U.S. patent application Ser. No. 11/467,441, entitled "Method and 40 Apparatus For Completing A Transaction Using A Wireless Mobile Communication Channel and Another Communication Channel, both of which are incorporated herein by reference. Such payment transactions can include, for example, purchasing goods and/or services, bill payments, 45 and transferring funds between bank accounts.

BRIEF SUMMARY OF THE INVENTION

In general, this specification describes a method and 50 system for conducting an online payment transaction through a point of sale device. The method includes receiving input from a user selecting an item for purchase through the point of sale device; calculating a total purchase amount for the item in response to a request from the user to 55 purchase the item; and sending payment authorization for the total purchase amount from the point of sale device to a payment entity, in which the payment authorization is sent to the payment entity via a mobile communication device of the user. The method further includes receiving a result of 60 the payment authorization from the payment entity through the mobile communication device; and completing the payment transaction based on the result of the payment authorization.

Particular implementations can include one or more of the 65 following features. The point of sale device can be a desktop computer, a laptop computer, or a terminal. The mobile

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communication device can be a cellular phone, a wireless personal digital assistant (PDA), or a laptop computer. The cellular phone can be an NFC-enabled phone. Sending payment authorization for the total purchase amount from the point of sale device to a payment entity can include sending the payment authorization securely to the payment entity. The payment entity can be a person, a computer system, or a bank. The method can further include maintaining a shopping list on the mobile communication device of the user, in which the shopping list includes a listing of one or more items to be purchased by the user. The payment authorization can be an authorization for payment with a credit card, a debit card, or a prepaid card.

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

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 illustrates a block diagram of a communication system including a wireless mobile communication device and a management server in accordance with one implementation.

FIG. 2 illustrates one implementation of the wireless mobile communication device of FIG. 1.

FIG. 3 is a method for conducting a payment transaction using a point of sale device in accordance with one implementation.

FIG. 4 illustrates a block diagram of a communication system including a wireless mobile communication device and an online store in accordance with one implementation.

FIG. **5** is a block diagram of a data processing system suitable for storing and/or executing program code in accordance with one implementation.

Like reference symbols in the various drawings indicate like elements.

DETAILED DESCRIPTION OF THE INVENTION

FIG. 1 illustrates one implementation of a communication system 100. The communication system 100 includes a hand-held, wireless mobile communication device 102 a point-of-sale device 104 and a management server 106. In one implementation, the mobile communication device 102 includes a mobile application (discussed in greater detail below) that permits a user of the mobile communication device 102 to conduct payment transactions. Payment transactions can include, for example, using contactless payment technology at a retail merchant point of sale (e.g., through point of sale device 104), using mobile/internet commerce (e.g., purchase tickets and products, etc.), storage of payment information and other digital artifacts (e.g., receipts, tickets, coupons, etc.), storage of banking information (payment account numbers, security codes, PIN's, etc.), and accessing banking service (account balance, payment history, bill pay, fund transfer, etc.), and so on. The mobile communication device 102 can be a cellular phone, a wireless personal digital assistant (PDA), a laptop computer, or other wireless communication device. The point of sale device 104 can be a desktop computer, laptop computer, terminal, or other device that is configured to receive user input selecting items for purchase or other transaction.

In one implementation, authorizations for payment transactions that are made through the point of sale device 104 are sent from the point of sale device 104 to an issuer

authorization (e.g., management server 106) through the mobile communication device 102 (as shown in FIG. 1). In one implementation, an issuer authorization is a payment entity that either approves or disapproves a payment transaction. An issuer authorization can be, e.g., a person, com- 5 puter system, bank (or other third party). One potential benefit of having payment authorizations flow through the mobile communication device 102 is that sensitive user information (e.g. account numbers, pin numbers, and/or identity information) need only be sent from the mobile 10 communication device 102 directly to an issuer authorization. Such operation reduces the potential for identity theft and/or fraudulent purchases made through a point of sale device. For example, (in one implementation) payment authorizations cannot be sent to an issuer authorization if the 15 mobile communication device 102 is turned off.

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FIG. 2 illustrates one implementation of the mobile communication device 102. The mobile communication device 102 includes a mobile application 200 that (in one implementation) is provided to the mobile communication device 20 102 through a remote server (e.g., management server 106). In one implementation, the mobile application is a Mobile Wallet application available from Mobile Candy Dish, Inc., of Alameda, CA. In one implementation, the mobile application is a hosted service, as described in U.S. patent 25 application Ser. No. 11/939,821, entitled "Method and System For Securing Transactions Made Through a Mobile Communication Device", which is incorporated herein by reference. In one implementation, the mobile application 200 is configured to send requests to the management server 30 for artifacts based on user input, e.g., received though a keypad (not shown) of the mobile communication device 102. Requests to the management server 106 can also be automated, via proximity-based services, e.g., consumer tapping (or in close proximity) an LBS/contactless/RFID 35 enabled phone against a smart poster (RFID/Bluetooth/LBS enabled, etc.), kiosk, or other device.

In one implementation, the mobile application 200 running on the mobile communication device 102 is configured to receive artifacts (e.g., advertisements, receipts, tickets, 40 coupons, media, content, and so on) from the management server 106. In one implementation, the management server 106 sends artifacts to the mobile application based on user profile information and/or a transaction history (or payment trends) associated with a user of the mobile communication 45 device 102 as described in U.S. patent application Ser. No. 11/944,267, entitled "Method and System For Delivering Information To a Mobile Communication Device Based On Consumer Transactions", which is incorporated herein by reference.

In one implementation, the mobile communication device 102 is an NFC-enabled phone. The mobile communication device 102 can be NFC-enabled, for example, through an embedded chip or a sticker that is affixed to the cellular phone, as described in U.S. application Ser. No. 11/933,321, 55 entitled "Method and System For Adapting a Wireless Mobile Communication Device For Wireless Transactions", which is incorporated herein by reference. In one implementation, the NFC chip (or sticker) on the cellular phone can be used in conjunction with a merchant's point of sale 60 device as described in greater detail below.

For example, with reference to FIG. 4, in one implementation, the NFC chip (or sticker) on the cellular phone can communicate with NFC chips that are installed on the front of PC's (TV's, Kiosks, or any other device) and serve as 65 scanners/readers. In this implementation a mobile candy dish applet (e.g., MCD POS plugin 414) is installed on the

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consumer's computer (e.g., PC 404) which interfaces with the NFC chip on the PC. When a consumer (or user) is shopping online and they are ready to pay for their products, the consumer opens his mobile wallet and selects one of the payment methods (e.g., credit card, debit card, prepaid card, etc.) from their mobile wallet. If a default card has been selected already, this step is not necessary. The consumer then waves their phone over the NFC reader present on the PC 404. The consumer's payment credentials are transferred from the phone to the merchant website (e.g., online store application 410) using a communication protocol between the chip in the phone and the chip in the PC, which can be radio frequency for example. If the consumer has coupons in their mobile wallet the consumer can either elect to manually apply the coupon, save the coupon for a future use (against a larger purchase for example), or have the coupon automatically applied during the transaction and the transaction amount is updated. After the consumer enters any necessary validation information (e.g., pin) to provide a multi-factor authentication and confirms the transaction, the online purchase is processed as normal by the merchant's online processor. The mobile wallet can retrieve transaction data, account balance from the management server 408.

In one implementation, the mobile communication device 102 is a non NFC-enabled phone. In this implementation, the consumer connects his phone to the PC 404 via some non radio frequency method (e.g., IR, Bluetooth, USB cable, etc.). When a consumer is shopping online and they are ready to pay for their products, the consumer opens his mobile wallet and selects one of the payment methods (e.g., credit card, debit card, prepaid card, etc.) from their mobile wallet. If a default card has been selected already, this step is not necessary. The consumer then pushes, e.g., a "Buy now" button and the consumer's payment credentials are transferred from the phone to the merchant website (e.g., online store application 410) using the protocol between the phone and the PC 404 which can be radio frequency, for example. If the consumer has coupons in their mobile wallet the consumer can either elect to manually apply the coupon, save the coupon for a future use, or have the coupon automatically applied during the transaction and the transaction amount is updated. After the consumer enters any necessary validation information (e.g., pin) to provide multifactor authentication and confirms the transaction, the online purchase is processed as normal by the merchant's online processor. The mobile wallet can retrieve transaction data and account balance from the management server 408.

In one implementation, the management server 408 and merchant portal (e.g., online store 408) are maintained by trusted parties and use an encrypted tunnel to transfer financial data. When the consumer is ready to pay for their online product, they enter their cell phone number on the merchant portal. The merchant portal (which has an MCD applet (e.g., MCD POS plugin 414) installed on its server) securely connects to the management server 408 (that in one implementation is maintained by Mobile Candy Dish (MCD)). In one implementation, the management server 408 identifies the consumer through their cell phone number, and verifies the consumer's authenticity by sending a unique transaction code to the consumer mobile wallet on their cell phone. The consumer then enters this unique transaction code onto the merchant's web portal. The merchant portal sends this transaction number to the management server 408 for authentication. Upon authentication, the consumer's virtual wallet and payment methods (e.g., credit card, debit card, prepaid card, etc.) are securely retrieved from the management server 408 and are displayed to the consumer

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in a window on a website associated with the merchant portal. The consumer selects one of these payment methods to pay for their transaction. If a default card has been selected already, this step is not necessary. If the consumer has coupons in their mobile wallet the consumer can either 5 elect to manually apply the coupon, save the coupon for a future use, or have the coupon automatically applied during the transaction and the transaction amount is updated. After the consumer enters any necessary validation information to provide a multi-factor authentication and confirms the transaction, the online purchase is processed as normal by the merchant's online processor. The mobile wallet can retrieve transaction data, account balance from the management server 408.

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Referring to FIG. 2, in one implementation, the mobile 15 application 200 maintains a shopping list 202 for a consumer. Accordingly, consumers have the ability to store their shopping list in their mobile wallet and add, delete, or change items on their shopping list either in offline or online mode. In one implementation, consumers are sent coupons 20 based on items on their shopping list, preferences, previous shopping history, proximity to the physical retail store, or a combination of these parameters, as discussed in application Ser. No. 11/944,267, which is incorporated by reference above. If the consumer has coupons in their mobile wallet 25 the consumer can either elect to manually apply the coupon, save the coupon for a future use, or have the coupon automatically applied during the transaction and the transaction amount is updated. When a consumer wants to order the items on their shopping list via an on online merchant (in 30 contrast to a physical retail store), the consumer can logon to the merchant portal and electronically transmit their shopping list to the merchant portal either by waving their phone over NFC enabled PC's or some other connection such as IR, bluetooth, USB, or the like.

FIG. 3 illustrates a method 300 for conducting a payment transaction using a point of sale device (e.g., point of sale device 104). User input is received selecting one or more items for purchase (e.g., at the point of sale device) (step **302**). In general, the transaction being made at the point of 40 sale device can be any type of transaction that involves the exchange or transfer of funds-e.g., the transaction can be a payment transaction, a fund transfer, or other type of transaction. In response to a request from the user to purchase the one or more items, a total purchase amount for 45 the one or more items is calculated (e.g., by the point of sale device) (step 304). If the user has coupons in their mobile wallet the user can either manually apply the coupon or have the coupon automatically applied during the transaction and the transaction amount is updated. The user request to 50 purchase an item can be received, e.g., by a user clicking on a "buy now" icon that is displayed on a graphical user interface of the point of sale device. Payment authorization for the total purchase amount is sent to a payment entity through a mobile communication device of the user (step 55 306). A result of the payment authorization is received at the point of sale device from the payment entity via the mobile communication device (step 308). The payment transaction is completed based on the result of the payment authorization (step 310). If the payment transaction was authorized by 60 the payment entity, then the sale of the items through the point of sale device is completed. Otherwise, if the payment transaction was not authorized by the payment entity, then the point of sale device terminates the payment transaction.

FIG. 4 illustrates an example payment transaction being 65 made in a communication system 400 in accordance with one implementation. The communication system 400

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includes a mobile communication device 402, a personal computer (PC) 404, an online store 406, and a core (or datastore) 408. As indicated by interaction (1), a user (or customer), using a phone (e.g., mobile communication device 402 or personal computer 404), browses an online store website (online store application 410) and finds an item that the customer wishes to purchase. This could also be a purchase made through a midlet application (POS midlet 412) residing on the mobile communication device 402. The user then goes to, e.g., a checkout of the online store 406 make a purchase. If the user has coupons in their mobile wallet the user can either manually apply the coupon or have the coupon automatically applied during the transaction and the transaction amount is updated. When it comes time to authorize the purchase, (in one implementation) the user is given an option to purchase with the mobile communication device 402. In one implementation, the mobile communication device 402 is an NFC-equipped phone (or NFC

In interaction (2), when the user chooses to purchase with the mobile communication device 402, the online store application 410 sends the transaction information for authorization to the POS vendor plugin (e.g., MCD POS plugin 414). In one implementation, the POS vendor plugin is installed in the merchant's online store and enables the merchant to accepts MCD Blaze payments as an alternative form of payment, similar to accepting credit cards for payment. As shown by interaction (3), the POS vendor plugin formats, encrypts, and cryptographically signs the purchase authorization request which is sent via a secure SSL link (e.g., HTTPS, Bluetooth, IR, USB, or other suitable protocol) established by the browser/web application 416 back to the mobile communication device 402. As with the first scenario, all communications is over secure chan-35 nels. (It may be required that the mobile wallet application be opened prior to beginning a phone online purchase.) The POS midlet 412 is a component of the mobile wallet application that executes PayPass or other payment authorization protocol between itself and the SE payment applications on the mobile communication device 402 (interaction (4)). The results of the request are sent back to the POS vendor plugin.

As shown by interaction (5), the POS midlet 412 then forwards the properly formatted authorization request to a payment entity (e.g., issuer authorization 418) for authorization. The results of the request are then sent back to the POS component of the mobile wallet. Through interaction (6), the POS midlet 412 then forwards the results back to the MCD POS plugin 414 to complete the purchase. The MCD POS plugin 414 then forwards the purchase transaction information to the management server 408 for later customer viewing (interaction (7)). As indicated by interaction (8), users (or customers) will then be able to query the management server 408 and immediately obtain purchase information, either by phone or PC.

One or more of method steps described above can be performed by one or more programmable processors executing a computer program to perform functions by operating on input data and generating output. Generally, the invention can take the form of an entirely hardware embodiment, an entirely software embodiment or an embodiment containing both hardware and software elements. In one implementation, the invention is implemented in software, which includes but is not limited to firmware, resident software, microcode, etc. Furthermore, the invention can take the form of a computer program product accessible from a computer-usable or computer-readable medium providing program

code for use by or in connection with a computer or any instruction execution system. For the purposes of this description, a computer-usable or computer readable medium can be any apparatus that can contain, store, communicate, propagate, or transport the program for use by or 5 in connection with the instruction execution system, apparatus, or device. The medium can be an electronic, magnetic, optical, electromagnetic, infrared, or semiconductor system (or apparatus or device) or a propagation medium. Examples of a computer-readable medium include a semiconductor or 10 solid state memory, magnetic tape, a removable computer diskette, a random access memory (RAM), a read-only memory (ROM), a rigid magnetic disk and an optical disk. Current examples of optical disks include compact disk-read only memory (CD-ROM), compact disk-read/write (CD-R/15 W) and DVD.

FIG. 5 illustrates a data processing system 500 suitable for storing and/or executing program code. Data processing system 500 includes a processor 502 coupled to memory elements **504**A-B through a system bus **506**. In other imple- 20 mentations, data processing system 500 may include more than one processor and each processor may be coupled directly or indirectly to one or more memory elements through a system bus. Memory elements 504A-B can include local memory employed during actual execution of 25 the program code, bulk storage, and cache memories that provide temporary storage of at least some program code in order to reduce the number of times the code must be retrieved from bulk storage during execution. As shown, input/output or I/O devices 508A-B (including, but not 30 limited to, keyboards, displays, pointing devices, etc.) are coupled to data processing system 500. I/O devices 508A-B may be coupled to data processing system 500 directly or indirectly through intervening I/O controllers (not shown).

In one implementation, a network adapter **510** is coupled 35 to data processing system **500** to enable data processing system **500** to become coupled to other data processing systems or remote printers or storage devices through communication link **512**. Communication link **512** can be a private or public network. Modems, cable modems, and 40 Ethernet cards are just a few of the currently available types of network adapters.

Although the present invention has been particularly described with reference to implementations discussed above, various changes, modifications and substitutes are 45 can be made. Accordingly, it will be appreciated that in numerous instances some features of the invention can be employed without a corresponding use of other features. Further, variations can be made in the number and arrangement of components illustrated in the figures discussed 50 above

What is claimed is:

1. A method for purchasing a product, comprising: maintaining, at a remote management server, a payment method:

receiving, at the remote management server, user input login information including a userID and information related to a password from a non-browser based application, wherein the non-browser based application is a mobile operating system platform non-browser based 60 mobile application with a graphical user interface which includes a graphical icon that is preinstalled or downloaded and installed on a mobile device, wherein the non-browser based application stored on the mobile device receives the user input login information including the userID and the information related to the password through user input via a mobile device dis-

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play of the mobile device, the mobile device including the mobile device display, a mobile device processor, a mobile device wireless transceiver configured to support voice and data interactions through a first wireless communication channel, and a mobile device wireless fidelity (Wi-Fi) transceiver;

upon receipt of the user input login information including the userID and the information related to the password, authenticating, at the remote management server, a user associated with the user input login information;

after the user authentication, sending a list of products from the remote management server to the non-browser based application for display using the non-browser based application;

receiving, at the remote management server an identification of one or more products selected from the list of products, from the non-browser based application, wherein the non-browser based application receives the identification of one or more products selected from the list of products through the user input via the mobile device display of the mobile device;

receiving, at the remote management server a transaction purchase request for the one or more selected products from the non-browser based application, wherein the non-browser based application receives the transaction purchase request through the user input via the mobile device display of the mobile device;

after receiving the transaction purchase request for the one or more selected products, transmitting, from the remote management server the payment method to a transaction server which processes a transaction for the one or more selected products using the payment method that corresponds to the userID;

receiving, at the remote management server, a transaction verification from the transaction server, wherein the transaction verification indicates that the transaction for the one or more selected products has been processed; and

after the transaction for the one or more products has been processed, sending, from the remote management server to the non-browser based application, a digital artifact for display within the non-browser based application using the mobile device display.

- 2. The method of claim 1, wherein the payment method is a credit card, a debit card, or a prepaid card.
- 3. The method of claim 1, wherein the digital artifact is a receipt, ticket, media, content, advertisement, or coupon.
- **4.** The method of claim **1**, further wherein the digital artifact can be used by the non-browser based application when there is not a network connection.
- 5. The method of claim 1, further wherein the non-browser based application can be used when the mobile device is not connected to a wireless network.
- 6. The method of claim 1, further wherein the nonbrowser based application displays the digital artifact while the mobile device maintains a wireless connection to a wireless network; and

further comprises:

- losing the wireless connection of the mobile device to the wireless network while the non-browser based application displays the digital artifact; and
- in an offline mode after losing the wireless connection, continuing to display the digital artifact within the non-browser based application.
- 7. The method of claim 1, wherein the password is a PIN or biometric data.

- **8**. The method of claim **6**, further wherein the non-browser based application monitors for access to the wireless network and automatically reconnects to the wireless network when the wireless network is available.
- **9**. The method of claim **1**, further wherein no sensitive ⁵ data is stored on the mobile device.
- 10. The method of claim 9, wherein the sensitive data comprises at least one of information related to the payment method and information related to expiration dates associated with the payment method.
- 11. The method of claim 1, further wherein the remote management server is configured to store a single userID for plurality of mobile devices, and further wherein the configuration means the remote management server scales.
- 12. The method of claim 1, further wherein the non-browser based application can be used when the mobile device is not connected to a wireless network.
- 13. The method of claim 1, further wherein the non-browser based application is stored in a local mobile device 20 memory during an execution of the non-browser based application, a bulk storage mobile device memory for when the non-browser based application is not being executed, and a cache mobile device memory to provide temporary storage of at least some of the non-browser based application in order to reduce the number of times the non-browser based application must be retrieved from the bulk storage mobile device memory during the execution.
- **14**. The method of claim **1**, further wherein the non-browser based application is not Short Messaging Service 30 (SMS).
- 15. The method of claim 9, further wherein sensitive data is only sent from the mobile device directly to the remote management server which reduces the potential for identity theft and/or fraudulent purchases made through a mobile 35 device.
- **16**. A remote management server for purchasing a product comprising:
 - a remote management server memory that maintains a payment method;
 - a remote management server transceiver that:

receives user input login information including a userID and information related to a password from a nonbrowser based application, wherein the non-browser based application is a mobile operating system platform 45 non-browser based mobile application with a graphical user interface which includes a graphical icon that is preinstalled or downloaded and installed on a mobile device, wherein the non-browser based application stored on the mobile device receives the user input 50 login information including the userID and the information related to the password through user input via a mobile device display of the mobile device, the mobile device including the mobile device display, a mobile device processor, a mobile device wireless transceiver 55 configured to support voice and data interactions through a first wireless communication channel, and a mobile device wireless fidelity (Wi-Fi) transceiver;

after user authentication, sends a list of products to the non-browser based application for display using the 60 non-browser based application;

receives an identification of one or more products selected from the list of products, from the non-browser based application, wherein the non-browser based application receives the identification of one or more products 65 selected from the list of products through the user input via the mobile device display of the mobile device; 10

- receives a transaction purchase request for the one or more selected products from the non-browser based application, wherein the non-browser based application receives the transaction purchase request through the user input via the mobile device display of the mobile device:
- after receiving the transaction purchase request for the one or more selected products, transmits the payment method to a transaction server which processes a transaction for the one or more selected products using the payment method that corresponds to the userID;
- receives a transaction verification from a transaction server, wherein the transaction verification indicates that the transaction for the one or more selected products has been processed; and
- after the transaction for the one or more selected products has been processed, sends a digital artifact to the non-browser based application for display within the non-browser based application generated screen using the mobile device display; and
- a remote management server processor that,
- upon receipt of the user input login information including the userID and information related to a password, authenticates the user associated with the user input login information.
- 17. The remote management server of claim 16, wherein the payment method is a credit card, a debit card, or a prepaid card.
- 18. The remote management server of claim 16, wherein the digital artifact is a receipt, ticket, media, content, advertisement, or coupon.
- 19. The remote management server of claim 16, further wherein the digital artifact can be used by the non-browser based application when there is not a network connection.
- 20. The remote management server of claim 16, further wherein the non-browser based application can be used when the mobile device is not connected to a wireless network.
- 21. The remote management server of claim 16, further wherein the non-browser based application displays the digital artifact while the mobile device maintains a wireless connection to a wireless network; and

further comprises:

- losing the wireless connection of the mobile device to the wireless network while the non-browser based application displays the digital artifact; and
- in an offline mode after losing the wireless connection, continuing to display the digital artifact within the non-browser based application.
- 22. The remote management server of claim 16, wherein the password is a PIN or biometric data.
- 23. The remote management server of claim 21, further wherein the non-browser based application monitors for access to the wireless network and automatically reconnects to the wireless network when the wireless network is available.
- **24.** The remote management server of claim **16**, further wherein no sensitive data is stored on the mobile device.
- 25. The remote management server of claim 24, wherein the sensitive data comprises at least one of information related to the payment method and information related to expiration dates associated with the payment method.
- 26. The remote management server of claim 16, further wherein the remote management server is configured to store a single userID for plurality of mobile devices, and further wherein the configuration means the remote management server scales.

- 27. The remote management server of claim 16, further wherein the non-browser based application can be used when the mobile device is not connected to a wireless network.
- 28. The remote management server of claim 16, further wherein the non-browser based application is stored in a local mobile device memory during an execution of the non-browser based application, a bulk storage mobile device memory for when the non-browser based application is not being executed, and a cache mobile device memory to 10 provide temporary storage of at least some of the non-browser based application in order to reduce the number of times the non-browser based application must be retrieved from the bulk storage mobile device memory during the execution.
- **29**. The remote management server of claim **16**, further wherein the non-browser based application is not Short Messaging Service (SMS).
- **30**. The remote management server of claim **24**, further wherein sensitive data is only sent from the mobile device 20 directly to the remote management server which reduces the potential for identity theft and/or fraudulent purchases made through a mobile device.

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