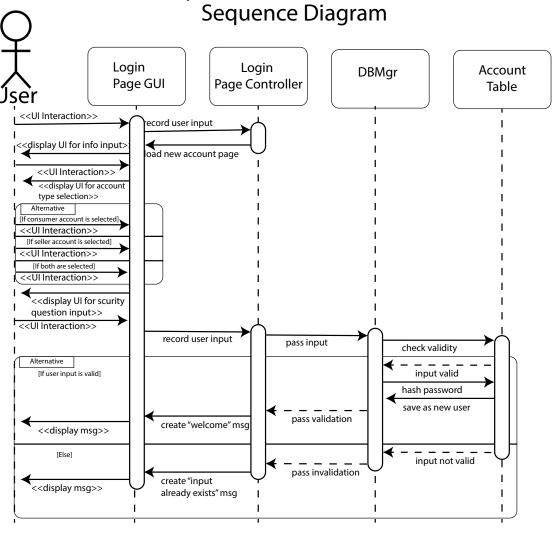
SepTech Account Creation

- 1.1 User clicks a UI element to create account.
- 1.2 Login page GUI passes user input to login page controller.
- 1.3 Login page controller loads account creation page.
- 1.4 Login page GUI displays input text-boxes for account creation information.
- 1.5 User enters information in UI elements.
- 1.6 Login page GUI requests user choose between consumer account, seller account, or both.
- 11.1 If user selects consumer account.
 - 11.1.1 Login page GUI records user input.
- 11.2 If user selects seller account.
 - 11.2.1 Login page GUI records user input.
- 11.3 If user selects both.
 - 11.3.1 Login page GUI records user input.
- 46.1 Login page GUI requests user submit a security question for multi-factor authentication.
- 46.2 User fills out UI element.
- 1.7 Login page controller passes all user input to DBMgr.
- 1.8 DBMgr checks User input against existing items the account table.
- 1.9 Account table returns true or false depending on if there is a match.
- 1.10 If true is returned, then
 - 1.10.1 DBMgr hashes inputed password.
 - 1.10.2 Account table saves information as a new authorized user.
 - 1.10.3 DBMgr passes successful creation.
 - 1.10.4 Login page controller creates "welcome to Centauri" msg.
 - 1.10.5 Login page GUI displays msg.
- 1.14 Else
 - 1.14.1 DBMgr passes failed creation
 - 1.14.2 Login page controller creates "input already exists" msg.
 - 1.14.3 Login page GUI displays msg.

SepTech/Create Account Sequence Diagram

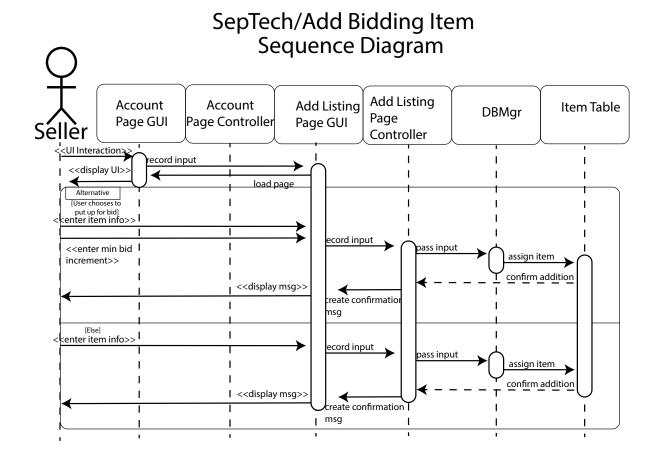


Add bidding Item

- 22.1 Seller selects UI button for "Add Listing"
- 22.2 Account page GUI records input.
- 22.3 Account page controller loads add listing page.
- 22.4 Add listing page GUI displays user input boxes.
- 22.5 Seller chooses whether or not to put item up for bidding.
- 22.6 If Seller puts item up for bidding,
 - 22.6.1 Seller enters item information.
 - 23.1 Seller selects minimum bid increment.
 - 22.6.2 Add listing page GUI records seller information.
 - 22.6.3 Add listing page controller passes seller info.
 - 22.6.4 DBMgr assigns item listing to item table.
 - 22.6.5 Add listing page controller creates "Item added" msg.
 - 22.6.6 Add listing page GUI displays msg.

22.7 Else

- 22.7.1 Seller enters item information.
- 22.7.2 Add listing page GUI records seller information.
- 22.7.3 Add listing page controller passes seller info.
- 22.7.4 DBMgr assigns item listing to item table.
- 22.7.5 Add listing page controller creates "Item added" msg.
- 22.7.6 Add listing page GUI displays msg.

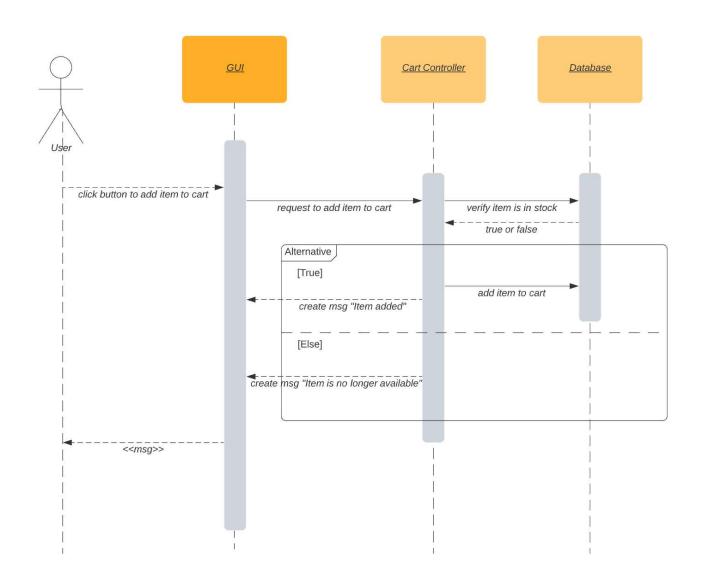


17. Add To Cart

- 17.1. The user clicks on a button to add an item to the cart.
- 17.2. The Cart controller receives a request to add an item to the cart.
- 17.3. The Cart controller returns true or false if the item is in stock in the database.
- 17.4. If true:
 - 17.4.1. The Cart controller adds the item to the cart.
 - 17.4.2. The Cart controller returns a message stating the item was successfully added to the cart.

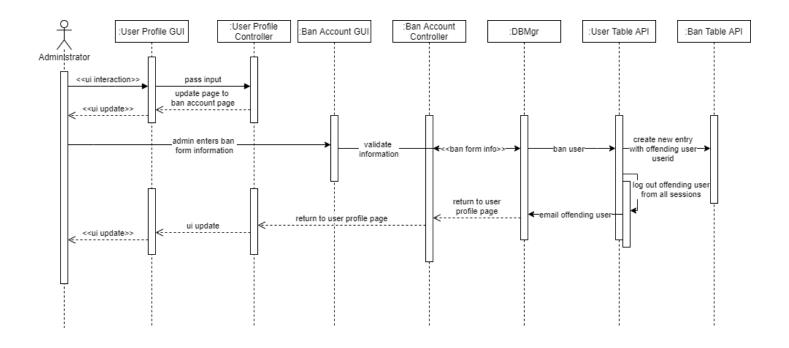
17.5. Else:

17.5.1. The Cart controller returns a message that the item is no longer available.



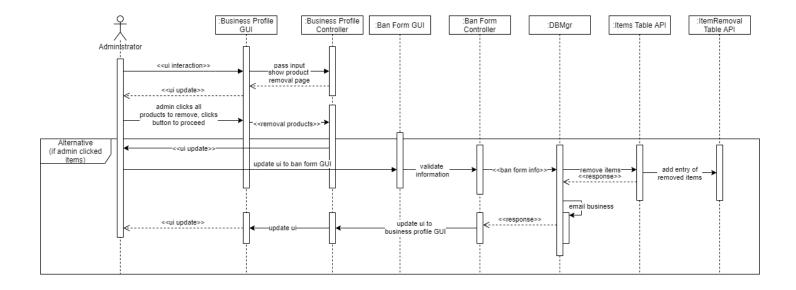
SepTech Admin Ban Account

- 5.1 Administrator clicks on ban account button in user profile
- 5.2 System updates GUI to ban form GUI
- 5.3 Administrator enters information regarding the ban
- 5.4 System validates information
- 5.5 Controller contacts DBMgr and inserts a new ban entry for offending user
- 5.6 DBMgr sends an email to the offending user's email indicating the ban
- 5.7 DBMGr logs the user out of all current sessions
- 5.8 Ban Account Controller returns admin back to user profile page



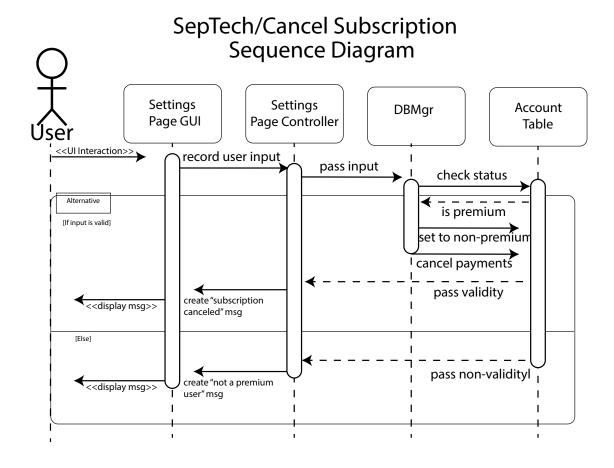
SepTech Admin Remove Items

- 5.1 Admin clicks button to remove products on business page
- 5.2 System updates page to display all seller products
- 5.3 Admin clicks all products to remove
- 5.4 Admin clicks on button to proceed with removal
- 5.6 If items clicked
 - 5.6.1 Controller update UI to ban form GUI
 - 5.6.2 Admin fills out form
 - 5.6.3 Controller validates form
 - 5.6.4 Controller sends form input to DBMgr along with items to remove
- 5.6.5 DBMgr removes items from Items Table, adds removal form to Item Removals Table
- 5.6.6 Controller updates GUI back to business profile with removed items no longer there



SepTech Cancel Subscription

- 35.1 User clicks a UI element to cancel premium subscription.
- 35.2 Settings page GUI passes user input to settings page controller.
- 35.3 Settings page controller sends request to DBMgr for reference to user's account status (already premium or not).
- 35.4 DBMgr searches the account table to verify if the user account is premium.
- 35.5 Account table returns true or false depending on the user's account status.
- 35.5 If true is returned, then
 - 35.5.1 Account table sets user to non-premium.
 - 35.5.2 Account table cancels monthly billing statements.
 - 35.5.3 Settings page controller creates a "membership canceled" msg.
 - 35.5.4 Settings page GUI displays msg to user.
- 35.6 Else
 - 35.6.1 Settings page controller creates a "user is not premium" msg.
 - 35.6.2 Settings page GUI displays msg to user.

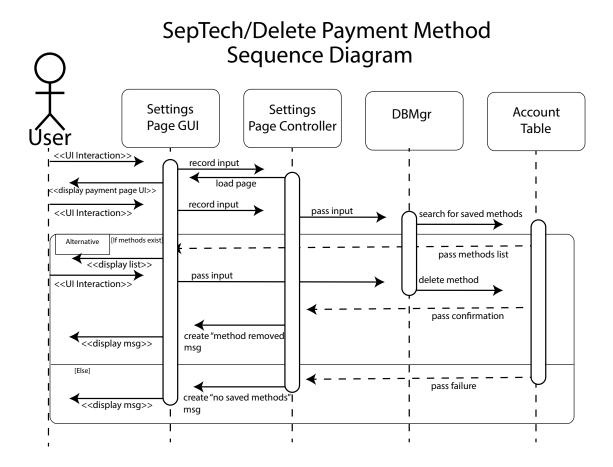


SepTech Delete Payment Method

- 12.1 User clicks UI element for "manage payment methods".
- 12.2 Settings page GUI records user input.
- 12.3 Settings page controller loads manage payment methods page.
- 12.4 Settings page GUI displays payment method page UI.
- 12.5 User clicks UI element for "delete payment method".
- 12.6 Settings page GUI records user input.
- 12.7 Settings page controller passes input.
- 12.8 DBMgr searches account table for payment methods associated with user account.
- 12.9 If the account table has methods saved, then
 - 12.9.1 DBMgr passes list of currently saved payment methods
 - 12.9.2 Settings page GUI displays list of currently saved payment methods.
 - 12.9.3 User selects method to delete.
 - 12.9.4 Account table removes payment method from table.
 - 12.9.5 Settings page controller creates "payment deleted" msg.
 - 12.9.6 Settings page GUI displays msg.

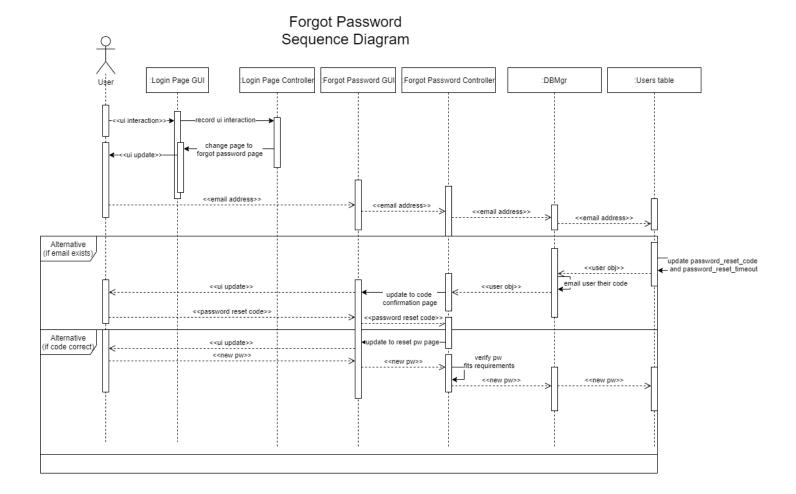
12.10 Else

- 12.10.1 Settings page controller creates "no saved payment methods" msg.
- 12.11.1 Settings page GUI displays msg.



SepTech Forgot Password

- 7.1 User selects "Forgot your password/account details" button
- 7.2 Login controller loads forgot password page
- 7.3 User enters email into forgot password GUI
- 7.4 User clicks "Submit" button
- 7.5 Forgot password controller sends information to DBMgr
- 7.6 If email exists in Users table
 - 7.6.1 Return user to Forgot Password Controller
 - 7.6.2 Update password_reset_code and password_reset_timeout in Users table for User
 - 7.6.3 Email to user's email their password reset code
- 7.7 System updates to enter confirmation code page
- 7.8 User enters code
- 7.9 If code matches user's password_reset_code
 - 7.9.1 Forgot Password Controller updates to password update page
 - 7.9.2 User enters new password and confirmation password
 - 7.9.3 If password matches old password
 - 7.9.3.1 Display password matches old password
 - 7.9.4 System passes information to DBMgr to update User password
 - 7.9.5 If successful
 - 7.9.4.1 Display password was updated succesfully
- 7.10 Else display error message

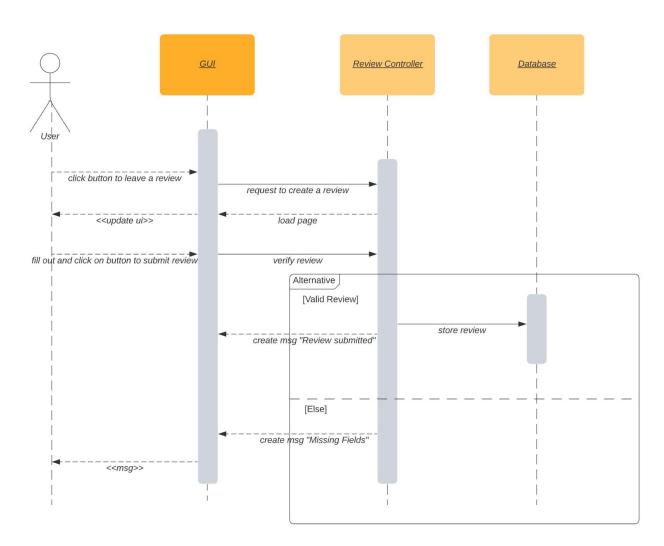


37. Leave Review

- 37.1. The user clicks on a button to leave a review on an item.
- 37.2. The Review controller receives a request to create a review.
- 37.3. The Review controller loads the page for the user to write their review.
- 37.4. The GUI displays UI elements for the user to leave a rating and review.
- 37.5. The user fills out the UI elements.
- 37.6. The user clicks on a button to submit the review.
- 37.7. The Review controller returns true or false if the review is valid.
- 37.8. If true:
 - 37.8.1. The Review controller stores the review into the database.
 - 37.8.2. The Review controller returns a message stating that the review was successfully submitted.

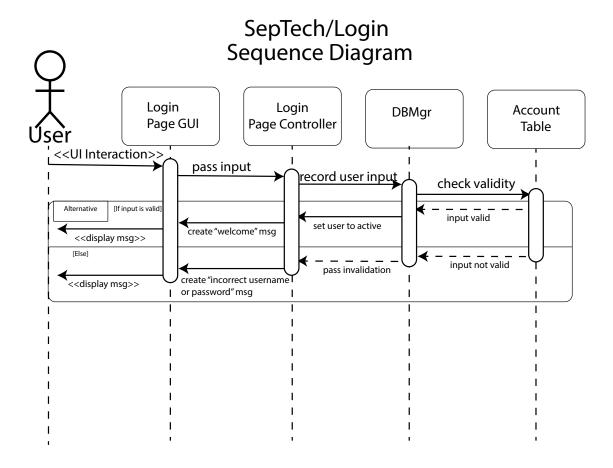
37.9. Else:

37.9.1. The Review controller returns a message stating that there are missing fields.



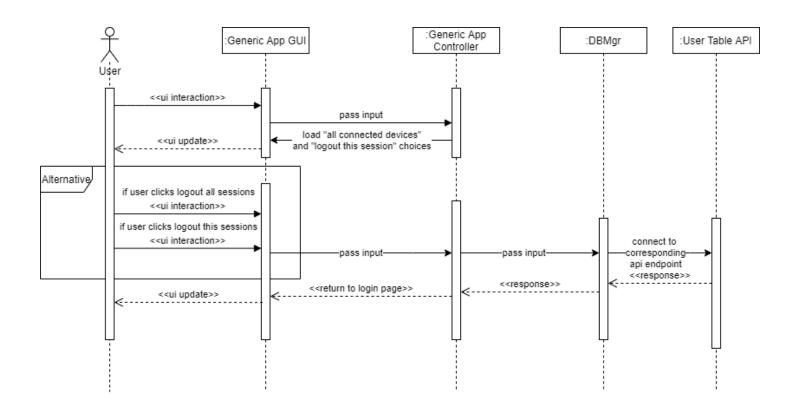
SepTech Login

- 2.1 User fills out UI elements to login.
- 2.2 Login page GUI passes user input to login page controller.
- 2.3 Login page controller records user input.
- 2.4 DBMgr checks account table for input validation.
- 2.5 Account table returns true or false depending on if the user input is valid.
- 2.6 If true is returned, then
 - 2.6.1 DBMgr sets user to active.
 - 2.6.2 Login page controller creates a "welcome" msg.
 - 2.6.3 Login page GUI displays msg.
- 2.7 Else
 - 2.7.1 Login page controller creates msg stating "incorrect username or password."
 - 2.7.2 Login page GUI displays msg.



SepTech Logout

- 3.1 User clicks logout button
- 3.2 System prompts user to log out of current device or all devices
- 3.3 If user clicks "all connected devices"
 - 3.3.1 Connect to "logout all sessions" API endpoint for user
- 3.4 If user clicks "this device"
 - 3.4.1. Connects to "logout this session" API endpoint for user
- 3.5 System logs user out of their current session
- 3.6 System updates user back to login page.



SepTech New Payment Method

- 20.1 User clicks UI element for "manage payment methods".
- 20.2 Settings page GUI records user input.
- 20.3 Settings page controller loads manage payment methods page.
- 20.4 Settings page GUI displays payment method page UI.
- 20.5 User clicks UI element for "new payment method".
- 20.6 Settings page GUI records user input.
- 20.7 Settings page controller creates text-boxes for payment information.
- 20.8 Settings page GUI displays payment info text-boxes.
- 20.9 User fills out UI elements.
- 20.10 Settings page GUI passes input.
- 20.11 Settings page controller records input.
- 20.12 DBMgr checks if payment method is already in the system.
- 20.13 Account table returns true or false depending on if the payment method is valid.
- 20.14 If true is returned, then
 - 20.14.1 DBMgr checks if payment method is credible.
 - 20.14.2 Visa database returns true or false depending on if the payment method is valid.
 - 20.14.3 If true is returned, then
 - 20.14.3.1 Account table saves payment method.
 - 20.14.3.2 Settings page controller creates a "successfully saved" msg.
 - 20.14.3.3 Settings page GUI displays msg.
 - 20.14.4 Else
 - 02.14.4.1 Account table passes method save failure.
 - 20.14.4.2 Settings page controller creates a "invalid payment method" msg.
 - 2.14.4.3 Settings page GUI displays msg.

20.15 Else

- 20.15.1 Account table passes method save failure.
- 20.15.2 Settings page controller creates a "invalid payment method" msg.
- 20.15.3 Settings page GUI displays msg.

SepTech/New Payment Method Sequence Diagram Settings Settings Account DBMgr Visa Database Page GUI Page Controller **Table** <<Ul Interaction>> record input load page <<display payment page UI>> record input <<UI Interaction>> create textbox UI <<dsiplay card input boxes>> <<UI Interaction>> check for duplicate pass input record input check methods validity Alternative [If input is valid] create "method saved Alternative save method to table pass validation [If input is valid] <<display msg>> pass failure create "invalid method" <<display msg>> pass failure

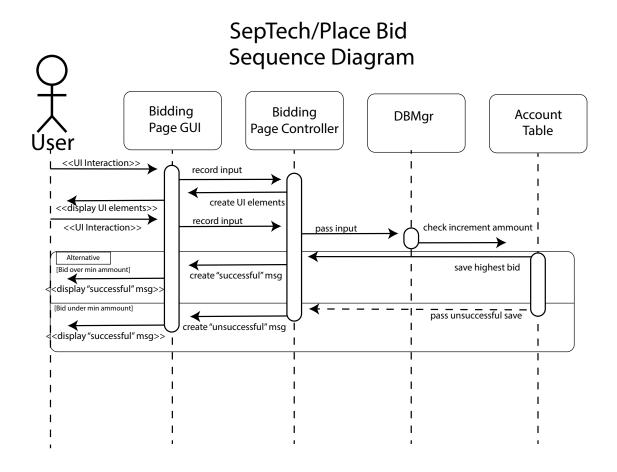
create "method

already exists" msg

<<display msg>>

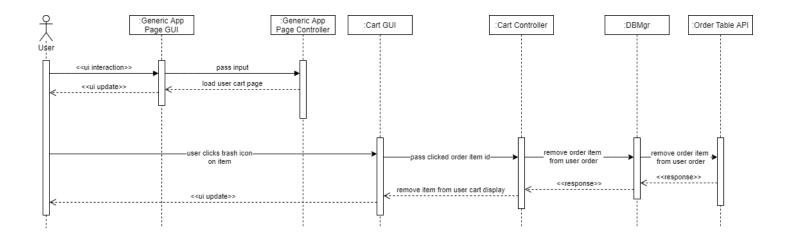
SepTech Place Bid

- 56.1 User selects UI element to place bid.
- 56.2 Bidding page GUI records user input.
- 56.3 Bidding page controller Cretes UI elements for how much to bid.
- 56.4 Bidding page GUI displays UI elements.
- 56.5 User selects bid amount.
- 56.6 Bidding page GUI records input.
- 56.7 Bidding page controller passes input.
- 56.8 DBMgr checks item table for minimum bid increment.
- 56.9 Item table returns true or false depending on if the bid was over the minimum amount.
- 56.10 If bid is over minimum
 - 56.10.1 Item table saves user bid as highest bid.
 - 56.10.2 Bidding page controller creates "successful bid" msg.
 - 56.10.3 Bidding page GUI displays message.
- 56.11 If bid is under
 - 56.11.1 Bidding page controller creates "unsuccessful bid" msg.
 - 56.11.2 Bidding page GUI displays msg.



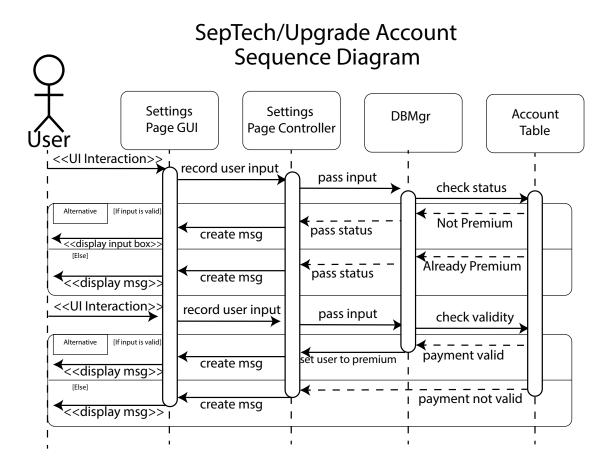
SepTech Remove from Cart

- 18.1 User clicks on cart button
- 18.2 System displays user's cart
- 18.3 User clicks on trash icon within the item's UI box in the cart
- 18.4 System removes item from user's cart
 - 18.4.1 DBMgr removes item from user's cart in DB
- 18.5 DBMgr sends response to generic app page controller
- 18.6 Controller updates the cart's UI to remove the item



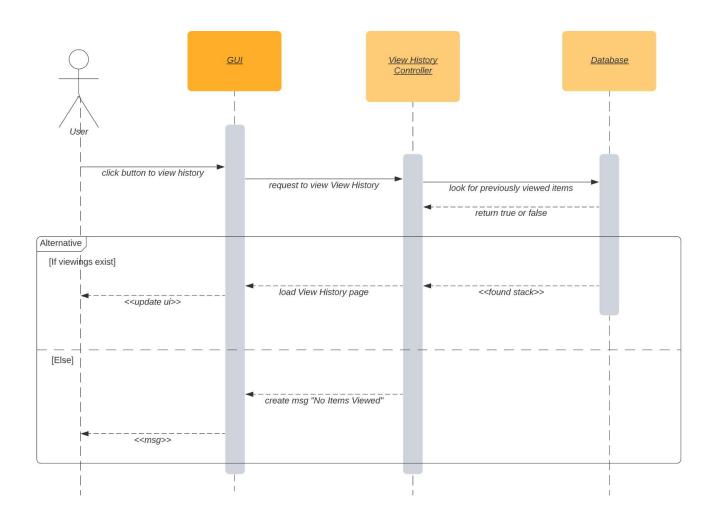
SepTech Upgrade Account

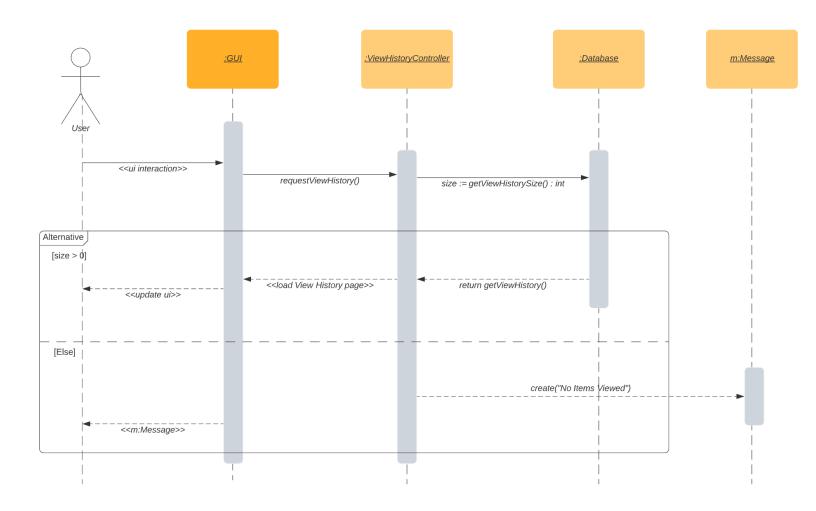
- 35.1 User clicks a UI element to upgrade account to Premium.
- 35.2 Settings page GUI passes user input to settings page controller.
- 35.3 Upgrade page controller sends request to DBMgr for reference to user's account status (already premium or not).
- 35.4 DBMgr returns true or false depending on the user's account status.
- 35.5 If true is returned, then
 - 35.5.1 Settings page controller creates msg stating "account is already premium."
 - 35.5.2 Settings page GUI Displays msg.
- 35.6 Else
 - 35.6.1 Upgrade page GUI generates an input box for payment method.
 - 35.6.2 Settings page GUI Displays msg.
- 35.7 User inputs payment method in the provided Settings page GUI textbox.
- 35.8 Settings page controller sends request to DBMgr for reference to inputed payment method.
- 35.9 DBMgr returns true or false depending on if the DBMgr finds a match in the account table.
- 35.10 If true is returned, then
 - 35.10.1 Account table sets user to premium.
 - 35.10.2 Settings page controller creates a "welcome to premium" msg.
 - 35.10.3 Settings page GUI displays msg to user.
- 35.11 Else
 - 35.11.1 Settings page controller creates msg stating "invalid payment method."
 - 35.11.2 Settings page GUI displays msg.

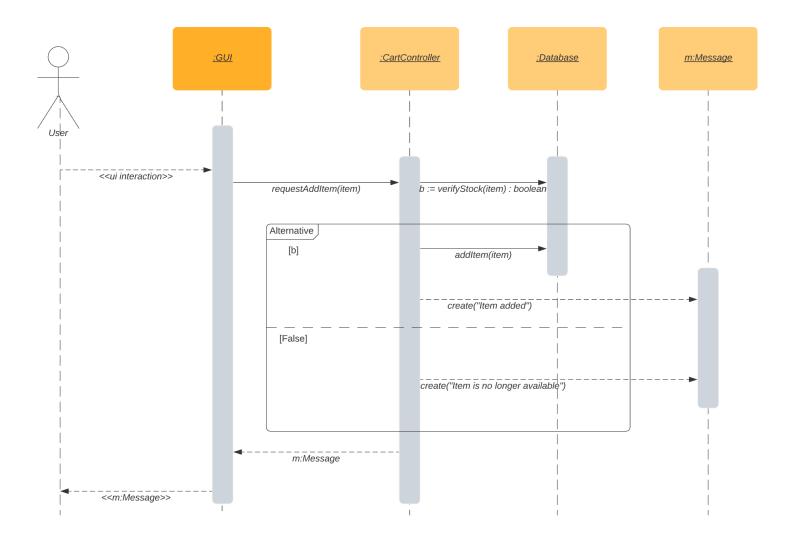


26. View History

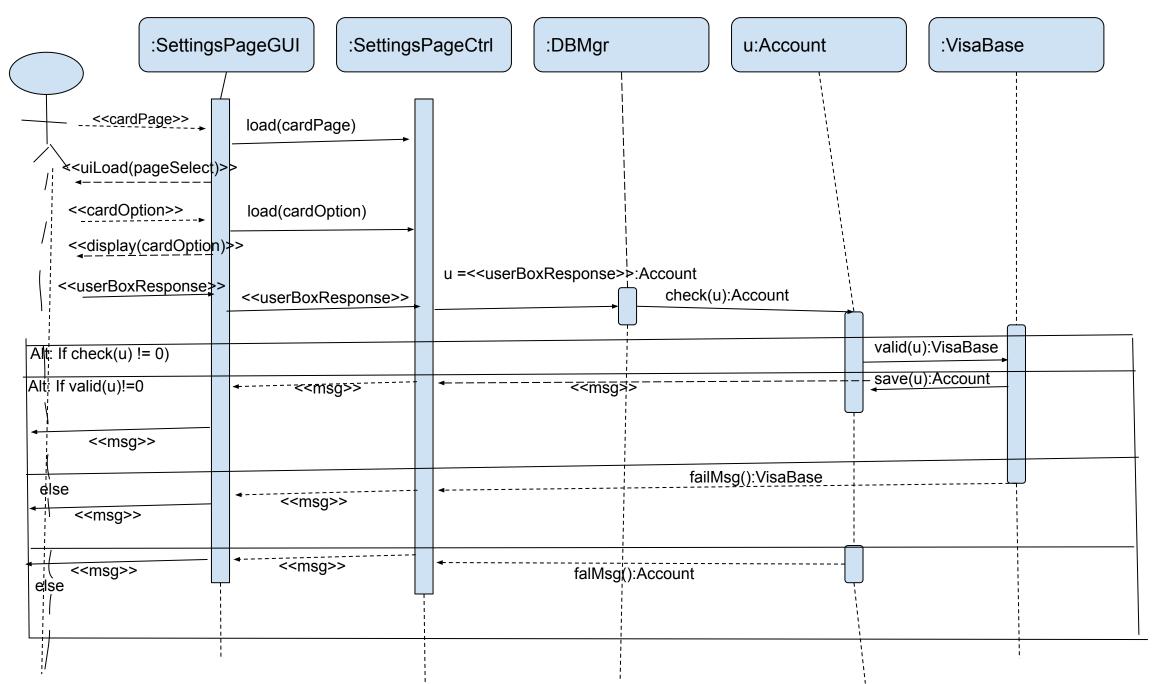
- 26.1. The user clicks on a button to look at a list of previously viewed items.
- 26.2. The View History controller receives a request to check for items that have been previously viewed.
- 26.3. The View History controller looks for previously viewed items recorded in the database.
- 26.4. If viewings exist:
 - 26.4.1. The View History controller returns a stack of items that the user has viewed.
 - 26.4.2. The View History controller loads the view history page.
 - 26.4.3. The View History page displays the view history UI.
- 26.5. Else:
 - 26.5.1. The View History controller returns a message stating no items have been viewed.



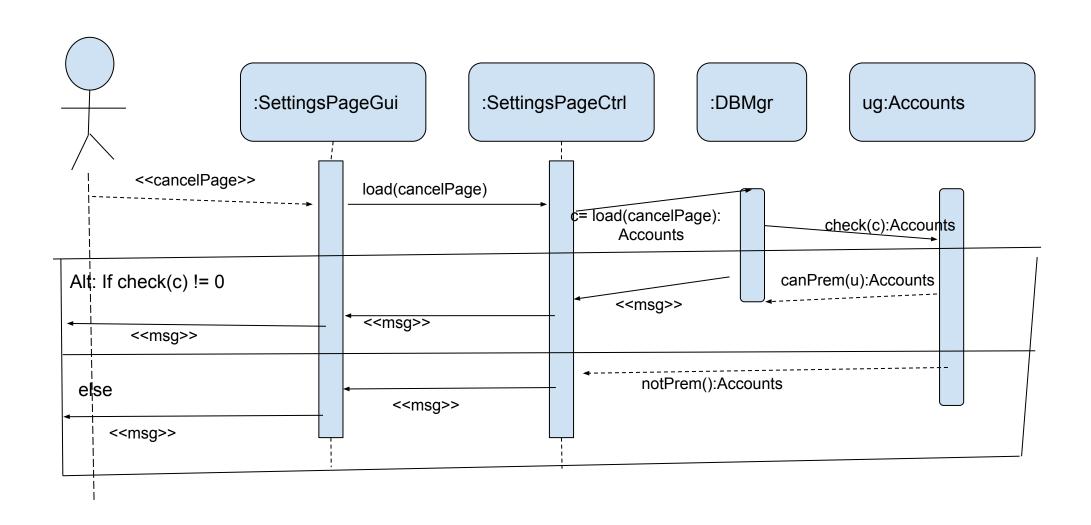




SepTech/New Payment Method Design Diagram



SepTech/Cancel Subscription Design Diagram



SepTech/Upgrade Account Design Diagram

