Create Account
Pre-condition: The user is on the Cash Stash login screen.

1. User provides account information.

2. System validates user information.
3. System creates account.

Exceptions:
3a. If the account information couldn't be validated, then the user will receive an error message.
3b. If the password provided is less than 7 characters, then the user will receive an error message.

Post-condition: The user account is created.

Login
Pre-condition: The user is on the Cash Stash login screen and has already created an account.

1. User provides login information.

2. System validates user information.
3. System logs the user in.

Exceptions:
2a. If the account information couldn't be verified, then the user will receive an error message.

Post-condition: The user is logged in.

Logout
Pre-condition: The user is logged in to Cash Stash.

1. User chooses the logout option.

2. System saves any open data.
3. System logs the user out and displays login screen.

Exceptions:

Post-condition: The user is logged out.

Manage Profile
Pre-condition: The user is logged in to Cash Stash.

1. User chooses the manage profile option.

2. System loads the account settings screen.

3. User submits account settings.

4. System saves account information and loads the main screen.

Exceptions:
4a. If the account settings are missing information, an error message is displayed.

Post-condition: The user's account information is updated.

Delete Account

Pre-condition: The user is on the "Account Settings" screen of the Cash Stash application.

1. User chooses the delete account option.

2. System prompts the user for their account password.

3. User submits account password.

4. System erases all data related to the user's account and displays the login screen.

Exceptions:

4a. If the user fails the account verification step, an error message will display.

Post-condition: The user's account and data no longer exists.

Link Financial Account

Pre-condition: The user is on the "Account Settings" screen of the Cash Stash application.

1. User chooses the link financial account option.

2. System prompts the user for the account details.

3. User provides financial account details.

4. System sends account details to financial account service for authorization.
5. Financial account service authorizes the account details.
6. System syncs financial account information with Cash Stash account.

Exceptions:

4a. If there is information missing from the account details, the system will prompt the user to finish filling in the details.
6a. If the account details were not authorized, then the system will display an error message to the user and ask them to try again.

Post-condition: The user's Cash Stash account is now synced with their financial account.

Create Transaction

Pre-condition: The user is logged in to Cash Stash.

1. User chooses the create transaction option.

2. System displays new transaction screen.

3. User submits transaction details.

4. System verifies transaction details.
5. System saves the transaction.

Exceptions:

5a. If the transaction verification fails, the system will display an error message instead of saving the transaction.

Post-condition: The transaction is saved within the user's account.

Schedule Transaction

Pre-condition: The user is logged in to Cash Stash.

1. User chooses the schedule transaction option.

2. User submits transaction details.

3. System displays new transaction screen.

4. System verifies transaction details.
5. System saves the recurring transaction.

Exceptions:

5a. If the transaction verification fails, the system will display an error message instead of saving the recurring transaction.

Post-condition: The recurring transaction is saved within the user's account.

Create Budget

Pre-condition: The user is logged in to Cash Stash.

1. User chooses the create budget option.

2. System displays the new budget screen.

3. User submits budget settings.

4. System verifies budget settings.
5. System displays the budget report.

Exceptions:

5a. If the budget settings are missing information, the system will display an error message instead of creating the budget.
5b. If the sum of percentages for categories is less than 0 or greater than 100, the system will display an error message.

Post-condition: The budget report is displayed.

Calculate Cash Flow

Pre-condition: The user is logged in to Cash Stash.

1. User chooses the calculate cash flow option.

2. System prompts the user for a timeframe.

3. User chooses a timeframe for the cash flow.

4. System calculates income and expense transactions for given timeframe.
5. System displays cash flow report.

Exceptions:

4a. If the account doesn't contain any transactions within the given timeframe, the system will display an error message.

Post-condition: The cash flow report is displayed.

Calculate Slippage

Pre-condition: The user is logged in to Cash Stash and has setup a budget.

1. User chooses the calculate slippage option.

2. System prompts the user to choose a timeframe.

3. User chooses the timeframe for which to calculate slippage.

4. System loads budget and calculates cash flow.
5. System displays a slippage report which compares values from the budget to the actual cash flow.

Exceptions:

Post-condition: The slippage report is displayed.

Check Credit Score

Pre-condition: The user is logged in to Cash Stash and has completed their account identity information.

1. The user chooses the check credit score option.

2. System will query the credit check service for the user's credit score.
3. Credit check service verifies the identity information and gets the credit score.
4. System displays the user's current credit score.

Exceptions:
    4a. If the credit check service returns an error, the error message is displayed to the user instead.

Post-condition: The user's credit score is displayed.

Export Data

Pre-condition: The user is logged in to Cash Stash.

1. User chooses the export data option.

2. System prompts the user to choose a location to save the file.

3. User chooses a save location.

4. System will compile an excel file of the account transactions.
5. System sends a request to the operating system to save the excel file.

Exceptions:
    4a. If the account doesn't contain any transactions, an error message will display to the user.

Post-condition: The operating system receives the create file request.

Print Data
Pre-condition: The user is logged in to Cash Stash.

1. User chooses the print data option.

   2. System will send a request to the printer service to print the current screen.

Exceptions:

Post-condition: The printer service receives the print request.

Refresh Data
Pre-condition: The user is logged in to Cash Stash.

1. User chooses the refresh data option.

   2. System request a sync operation from the financial account service.
   3. Financial account service will respond with the appropriate data.
   4. System reloads the current screen.

Exceptions:
   4a. If any of the sync requests returned with an error, these error messages will be displayed to the user before reloading the current screen.

Post-condition: The user's Cash Stash account now contains any data in linked financial accounts.