**New User**

Make Account

|  |  |
| --- | --- |
| Description | User creates their account to start using the app |
| Used By | Users |
| Preconditions | Have the App downloaded on a phone and open the app |
| Success End Condition | User has created their account and is able to use the app |
| Failed End Condition | The app fails to create a unique user account and user cannot use the app |
| Actors | 1. Users who want to start using the app |
| Trigger | User downloads and opens the app for the first time |
| DESCRIPTION | Step Action   1. User must enter their username 2. User must enter their email and date of birth 3. User must set up 2 way verification. Go to Use Case: Set up 2 step verification to log in 4. User finally creates their security questions |
| Extensions |  |
| Exceptions |  |
| Open Issues |  |

Create Security Questions

|  |  |
| --- | --- |
| Description | User creates their security questions |
| Used By | Users |
| Preconditions | Have the App downloaded on a phone and have completed all the other steps in Use Case **Make Account** |
| Success End Condition | User has created their personalized security questions |
| Failed End Condition | The app fails to create security questions |
| Actors | Users |
| Trigger | User downloads and opens the app for the first time |
| DESCRIPTION | Step Action   1. User must enter a question in the blank Question field 2. User enters an answer in the Answer field |
| Extensions | User repeats for steps 1 and 2 two more times to have a total of 3 security questions and answers. |
| Exceptions |  |
| Open Issues |  |

Setup Preferences

|  |  |
| --- | --- |
| Description | User edits their preferences for Cerberus |
| Used By | User |
| Preconditions | The app must be installed on device and the user already has a registered account with Cerberus |
| Success End Condition | User is able to personalize their account for their needs |
| Failed End Condition | The app fails to create a personalized experience |
| Actors | Users |
| Trigger | User opens app |
| DESCRIPTION | Step Action   1. User check or unchecks a box in the mobile home page |
| Extensions | Depending on if the box is unchecked or checked the feature will either be turned off or on |
| Exceptions |  |
| Open Issues |  |

Add Thumbprint - On phone

|  |  |
| --- | --- |
| Description | User takes their thumbprint and app reads it as a security measure |
| Used By | Users |
| Preconditions | Have the App downloaded on a phone and set up account |
| Success End Condition | App takes the thumbprint and is added as a security measure for the app |
| Failed End Condition | The thumbprint is not taken or there is an error uploading the thumbprint |
| Actors | 1. Users who want to add a thumbprint |
| Trigger | User is prompted to add a thumbprint |
| DESCRIPTION | Step Action   1. The User sets up the account 2. User is prompted to add a thumbprint 3. If failed… 4. User is prompted again |
| Extensions | The User is prompted to add thumbprint again |
| Exceptions | User must have a thumbprint scanner phone or this will not work |
| Open Issues |  |

Setup 2 way Verification

|  |  |
| --- | --- |
| Description | User enters a PIN/Password and thumbprint |
| Used By | User |
| Preconditions | The app must be installed on device and has completed steps 1 & 2 in Use Case **Make Account** |
| Success End Condition | User is able protect their account through a password and their thumbprint |
| Failed End Condition | The app fails to secure their account |
| Actors | Users |
| Trigger | User is currently going through the steps to make an account |
| DESCRIPTION | Step Action   1. User creates a password/PIN and enters it into the blank Password/PIN field 2. User presses their thumb against the thumb print scanner |
| Extensions |  |
| Exceptions |  |
| Open Issues |  |

Turn on Locations Services

|  |  |
| --- | --- |
| Description | User allows Locations Services so the app will be able to determine the location of the device |
| Used By | User |
| Preconditions | The app must be installed on device and the user must have a registered account |
| Success End Condition | The app can locate the User’s phone |
| Failed End Condition | The app fails to locate the phone |
| Actors | Users |
| Trigger | User checks the Allow Location Services |
| DESCRIPTION | Step Action   1. User goes through Use Case **Setup Preferences** 2. User checks the box next to Allow Location Services |
| Extensions |  |
| Exceptions |  |
| Open Issues |  |

Filter Options

|  |  |
| --- | --- |
| Description | User edits the filter options for generating passwords |
| Used By | User |
| Preconditions | Have the App downloaded on a phone and log into the user’s account |
| Success End Condition | Cerberus successfully edits a password’s filters |
| Failed End Condition | Cerberus fails to edit passwords |
| Actors | Users |
| Trigger | User touches an Password in the List of Passwords Menu |
| DESCRIPTION | Step Action   1. The user accesses the app by scanning fingerprint and entering PIN number 2. The app will display the main page 3. User selects the Passwords button 4. App displays the list of passwords that are connected to the app 5. User selects a Password 6. A drop down menu will appear with several checkbox options 7. A user can edit their password by checking and unchecking any of the boxes. |
| Extensions | 1. User can include/exclude special characters from their passwords 2. User can include/exclude numbers from their passwords 3. User can include/exclude upper case from their passwords |
| Exceptions |  |
| Open Issues |  |

Connecting to Website

|  |  |
| --- | --- |
| Description | User connects their account to our website |
| Used By | User |
| Preconditions | The app must be installed on device and the user must have a registered account. User is able to access the website from a personal computer |
| Success End Condition | User can access Cerberus from our website |
| Failed End Condition | Cerberus fails to connect user through the website. |
| Actors | Users |
| Trigger | User attempts login from a personal computer |
| DESCRIPTION | Step Action   1. User goes to the Cerberus website 2. They click the login button 3. User will then have to enter their username and password/PIN 4. User will then receive an email to verify 5. User will then have to click on the link in the email their account will successfully connected. |
| Extensions |  |
| Exceptions |  |
| Open Issues |  |

Introduction to Menu and Services

|  |  |
| --- | --- |
| Description | Will function as part of Q&A page |
| Used By | Users, System |
| Preconditions | Have the App downloaded on a phone and select Help or Log in for the first time |
| Success End Condition | User selects the help option on the app or website |
| Failed End Condition | The information displayed is wrong or not displayed at all |
| Actors | Users who want to learn more about the app |
| Trigger | User selects the help option on the app or website |
| DESCRIPTION | Step Action   1. The User logs in Cerberus 2. The User selects the help option 3. Information is displayed |
| Extensions | 4a. The Information should be displayed both on the app and website |
| Exceptions | User might not ever ask to view this information |
| Open Issues |  |

**Emergency Users**

Ping Location

|  |  |
| --- | --- |
| Description | User selects to ping their phone location to their desktop |
| Used By | Users, System |
| Preconditions | Have the App downloaded on a phone and online |
| Success End Condition | User asks for system to ping location and the location is returned to the User |
| Failed End Condition | The location of the device is wrong or not current |
| Actors | 1. Users who lose or have their phone stolen |
| Trigger | User selects the ping location option from the Cerberus Website |
| DESCRIPTION | Step Action   1. The User selects the option to ping location 2. The location is released to the User 3. User can turn off location ping or keep it on |
| Extensions | 4a. The location services is available after the User logs in to the official website |
| Exceptions | Location Services has to be enabled and must give permission to Cerberus to enable it whenever |
| Open Issues |  |

Encrypt Phone Remotely

|  |  |
| --- | --- |
| Description | User selects option to encrypt phone remotely |
| Used By | Users, System |
| Preconditions | Have the App downloaded on a phone and online |
| Success End Condition | User asks for system to encrypt their phone and it is encrypted |
| Failed End Condition | The phone is not locked |
| Actors | Users who want to lock their phone in a dangerous situation |
| Trigger | User selects the encrypt phone option from the Cerberus Website |
| DESCRIPTION | Step Action   1. User logs in to Cerberus Website 2. User selects encrypt phone option 3. Phone is encrypted |
| Extensions | 4a. The encrypted phone option is available after the User logs in to the official website |
| Exceptions |  |
| Open Issues | File lock permissions on a phone |

**Normal Users**

Change Passwords

|  |  |
| --- | --- |
| Description | User changes the password in the mobile application from the Password page |
| Used By | Users |
| Preconditions | Have the App downloaded on a phone and log into the user’s account |
| Success End Condition | User pushes the ‘save’ button and overwrites the old password with the new one |
| Failed End Condition | 1. The app will not generate a new password 2. The new password does not save |
| Actors | 1. Users who want to change one of their passwords |
| Trigger | User selects a current password to be changed |
| DESCRIPTION | Step Action   1. The user accesses the app by scanning fingerprint and entering PIN number 2. The app will display the main page 3. User selects the Passwords button 4. App displays the list of passwords that are connected to the app 5. User decides which password to change 6. User selects ‘Generate’ which will generate a new password 7. User selects ‘Save’ to save the new password |
| Extensions | The individual password sections accordion out to reveal more information |
| Exceptions |  |
| Open Issues |  |

Update Settings On Mobile Device

|  |  |
| --- | --- |
| Description | User changes their settings from the Settings page |
| Used By | Users |
| Preconditions | Have the App downloaded on a phone and log into the user’s account |
| Success End Condition | User overwrites previous settings |
| Failed End Condition | 1. The app does not display the settings page 2. The new settings do not save or take place |
| Actors | Users who want to change their settings |
| Trigger | User redirects to the |
| DESCRIPTION | Step Action   1. The user accesses the app by scanning fingerprint and entering PIN number 2. The app will display the main page 3. User selects the Settings button 4. User decides which settings to change 5. User activates or deactivates the checkbox next to the related setting |
| Extensions |  |
| Exceptions | Some settings such as the current master key cannot be changed from the mobile application |
| Open Issues |  |

Schedule Password Change

|  |  |
| --- | --- |
| Description | User schedules when a password will auto-generate in the mobile application from the Password page |
| Used By | Users |
| Preconditions | Have the App downloaded on a phone and log into the user’s account |
| Success End Condition | User pushes the ‘save’ button and overwrites the old schedule with the new one |
| Failed End Condition | The new schedule does not save |
| Actors | Users who want to change one of their auto-generation schedules |
| Trigger | User selects a current schedule to be changed |
| DESCRIPTION | Step Action   1. The user accesses the app by scanning fingerprint and entering PIN number 2. The app will display the main page 3. User selects the Passwords button 4. App displays the list of passwords that are connected to the app 5. User selects drop down menu revealing the list of schedules to choose from 6. User selects a schedule 7. User selects ‘Save’ to save the new password along with the new schedule |
| Extensions | The individual password sections accordion out to reveal more information |
| Exceptions |  |
| Open Issues | The user may not want to have scheduled auto-generated passwords and will have to turn off that feature on a different page of the mobile app |

View Passwords

|  |  |
| --- | --- |
| Description | User views the registered passwords from the Password page of the mobile application |
| Used By | Users |
| Preconditions | Have the App downloaded on a phone and log into the user’s account |
| Success End Condition | User looks through passwords on the Password page |
| Failed End Condition | The list of passwords do not display |
| Actors | Users who want to view their passwords |
| Trigger | User selects ‘passwords’ from the home page |
| DESCRIPTION | Step Action   1. The user accesses the app by scanning fingerprint and entering PIN number 2. The app will display the main page 3. User selects the Passwords button 4. App displays the list of passwords that are connected to the app |
| Extensions | The individual password sections accordion out to reveal more information |
| Exceptions |  |
| Open Issues |  |

Filter Options

|  |  |
| --- | --- |
| Description | User edits the filter options for generating passwords |
| Used By | User |
| Preconditions | Have the App downloaded on a phone and log into the user’s account |
| Success End Condition | Cerberus successfully edits a password’s filters |
| Failed End Condition | Cerberus fails to edit passwords |
| Actors | Users |
| Trigger | User touches an Password in the List of Passwords Menu |
| DESCRIPTION | Step Action   1. The user accesses the app by scanning fingerprint and entering PIN number 2. The app will display the main page 3. User selects the Passwords button 4. App displays the list of passwords that are connected to the app 5. User selects a Password 6. A drop down menu will appear with several checkbox options 7. A user can edit their password by checking and unchecking any of the boxes. |
| Extensions | 1. User can include/exclude special characters from their passwords 2. User can include/exclude numbers from their passwords 3. User can include/exclude upper case from their passwords |
| Exceptions |  |
| Open Issues |  |

View Phone’s Location

|  |  |
| --- | --- |
| Description | User views the most updated location of the mobile device using the desktop website |
| Used By | Users |
| Preconditions | 1. Have the App downloaded on a mobile device 2. Have GPS enabled |
| Success End Condition | User can view the current location of the mobile device |
| Failed End Condition | 1. The geolocation widget shows an old location 2. The geolocation widget does not show any location |
| Actors | Users who want to locate their phone |
| Trigger | User views the location widget on their account dashboard |
| DESCRIPTION | Step Action   1. Website displays the Sign In button 2. The user logs into their account 3. Website displays personal dashboard of user 4. User can view the most updated location of the mobile device |
| Extensions | The user can zoom in or out of the map |
| Exceptions | Effectiveness depends on Wifi |
| Open Issues | Requires accurate geolocation software |

Add New Password

|  |  |
| --- | --- |
| Description | User adds a password to the list of registered passwords from the Password page of the mobile application for auto-generation |
| Used By | Users |
| Preconditions | Have the app downloaded on a phone and log into the user’s account |
| Success End Condition | User adds a new password for auto-generation |
| Failed End Condition | 1. The new password does not save in the list of password 2. Cannot connect password from another mobile app |
| Actors | Users who want to add a password |
| Trigger | User selects ‘passwords’ from the home page |
| DESCRIPTION | Step Action   1. The user accesses the app by scanning fingerprint and entering PIN number 2. The app will display the main page 3. User selects the Passwords button 4. App displays the list of passwords that are connected to the app 5. User selects ‘Add Password’ 6. Pop up displays the list of all available mobile applications 7. User selects toggle button next to chosen application 8. That particular application is added to the list of auto-generated passwords |
| Extensions |  |
| Exceptions |  |
| Open Issues | Other mobile applications may not give permission to share user information |

Change Desktop Password or Username

|  |  |
| --- | --- |
| Description | User changes their username or password for Cerberus |
| Used By | Users |
| Preconditions | Have an existing username and password for Cerberus |
| Success End Condition | User changes username or password |
| Failed End Condition | User cannot change username or password |
| Actors | User who wants to change username or password |
| Trigger | User selects ‘change master key’ from the dashboard |
| DESCRIPTION | Step Action   1. Website displays the Sign In button 2. The user logs into their account 3. Website displays personal dashboard of user 4. User selects ‘Change Master Key’ 5. User changes username or password 6. User saves changes |
| Extensions | Recover username using email |
| Exceptions | User enters wrong PIN |
| Open Issues | Should 2-way verification be required |

Change Mobile App PIN or Fingerprint

|  |  |
| --- | --- |
| Description | User changes their PIN or registered fingerprint for Cerberus |
| Used By | Users |
| Preconditions | 1. Have the app downloaded on a phone and log into the user’s account 2. Have an existing PIN and registered fingerprint for Cerberus |
| Success End Condition | User changes PIN or fingerprint |
| Failed End Condition | User cannot change PIN or fingerprint |
| Actors | User who wants to change PIN or fingerprint |
| Trigger | User selects ‘change master key’ from the settings page |
| DESCRIPTION | Step Action   1. The user accesses the app by scanning fingerprint and entering PIN number 2. The app will display the main page 3. User selects the Settings button 4. User selects ‘Change Master Key’ 5. User changes PIN or fingerprint 6. User saves changes |
| Extensions | Recover username using email |
| Exceptions | 1. User enters wrong username or password 2. New password does not meet security requirements |
| Open Issues | Should 2-way verification be required |

Delete Password

|  |  |
| --- | --- |
| Description | User deletes the password in the mobile application from the Password page |
| Used By | Users |
| Preconditions | Have the App downloaded on a phone and press on the dropdown menu |
| Success End Condition | User pushes the delete button and password is removed |
| Failed End Condition | 1.The password will not be deleted  2.multiple passwords were deleted |
| Actors | 1. Users who want to delete their passwords |
| Trigger | User selects a password and taps delete |
| DESCRIPTION | Step Action   1. User selects the Passwords button 2. App displays the list of passwords that are connected to the app 3. User decides which password to delete 4. User selects delete button |
| Extensions |  |
| Exceptions |  |
| Open Issues |  |

Add Account

|  |  |
| --- | --- |
| Description | User connects his mobile account with his desktop account. |
| Used By | Users |
| Preconditions | Have the App downloaded on a phone with an account created or have an account created on the website |
| Success End Condition | User is able to see all their info in both the app and website with no changes. |
| Failed End Condition | 1. Different information displayed on app and website 2. Cannot login with same password of app or website |
| Actors | Users who wants to sync their accounts |
| Trigger | Creation of an account |
| DESCRIPTION | Step Action   1. User selects the Passwords button |
| Extensions |  |
| Exceptions |  |
| Open Issues | Database should sync application and website data |

Send Notification of Password change

|  |  |
| --- | --- |
| Description | User has received an e-mail or SMS notification that his password has changed |
| Used By | Users |
| Preconditions | The user has changed their password |
| Success End Condition | User pushes the update button |
| Failed End Condition | 1.No e-mail was sent  2.E-mail was sent to wrong person |
| Actors | The application |
| Trigger | User selects update password |
| DESCRIPTION | Step Action  1.User selects the update password button  2.App changes password and sends an e-mail to user confirming  Password change. |
| Extensions |  |
| Exceptions |  |
| Open Issues |  |

Update Password from websites

|  |  |
| --- | --- |
| Description | The password menu displays the most up to date password for a specific site. |
| Used By | Users |
| Preconditions | The user has changed their password and pressed the update button. |
| Success End Condition | The right password is now displayed on the password menu |
| Failed End Condition | 1. The password remains unchanged 2. The wrong password is displayed 3. Nothing is displayed |
| Actors | The application |
| Trigger | User selects update password button. |
| DESCRIPTION | Step Action   1. User selects the update password button 2. App changes password and sends an e-mail to user confirming   Password change.  3. User goes to password screen and sees the updated password. |
| Extensions |  |
| Exceptions |  |
| Open Issues |  |

Send Alarm For Any Unauthorized logins

|  |  |
| --- | --- |
| Description | Application sends message to user if someone that is not him logs in to application. |
| Used By | Application |
| Preconditions | The user has logged in |
| Success End Condition | An e-mail is sent to the user asking if they had just logged in. |
| Failed End Condition | 1. No email was sent |
| Actors | The application |
| Trigger | 1. Login from a new IP address 2. Multiple failed login attempts |
| DESCRIPTION | Step Action   1. If it was the user logging in from new address he can choose to ignore the email. 2. If it wasn’t him, the user can choose to go into emergency mode |
| Extensions |  |
| Exceptions |  |
| Open Issues |  |