

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	<p>Step Action</p> <ol style="list-style-type: none">1. The user accesses the app by scanning fingerprint and entering PIN number2. The app will display the main page3. User selects the Passwords button4. App displays the list of passwords that are connected to the app5. User selects a Password6. A drop down menu will appear with several checkbox options7. A user can edit their password by checking and unchecking any of the boxes.
Extensions	<ol style="list-style-type: none">1. User can include/exclude special characters from their passwords2. User can include/exclude numbers from their passwords3. 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	<p>Step Action</p> <ol style="list-style-type: none">1. User goes to the Cerberus website2. They click the login button3. User will then have to enter their username and password/PIN4. User will then receive an email to verify5. 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	<div>Step Action</div> <div><div>1. User logs in to Cerberus Website</div><div>2. User selects encrypt phone option</div><div>3. Phone is encrypted</div></div>
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	<ol style="list-style-type: none">1. The app will not generate a new password2. The new password does not save
Actors	<ol style="list-style-type: none">1. Users who want to change one of their passwords
Trigger	User selects a current password to be changed
DESCRIPTION	<p>Step Action</p> <ol style="list-style-type: none">1. The user accesses the app by scanning fingerprint and entering PIN number2. The app will display the main page3. User selects the Passwords button4. App displays the list of passwords that are connected to the app5. User decides which password to change6. User selects 'Generate' which will generate a new password7. 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	<ol style="list-style-type: none">1. The app does not display the settings page2. The new settings do not save or take place
Actors	Users who want to change their settings
Trigger	User redirects to the
DESCRIPTION	<p>Step Action</p> <ol style="list-style-type: none">1. The user accesses the app by scanning fingerprint and entering PIN number2. The app will display the main page3. User selects the Settings button4. User decides which settings to change5. 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	<p>Step Action</p> <ol style="list-style-type: none">1. The user accesses the app by scanning fingerprint and entering PIN number2. The app will display the main page3. User selects the Passwords button4. App displays the list of passwords that are connected to the app5. User selects drop down menu revealing the list of schedules to choose from6. User selects a schedule7. 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	<p>Step Action</p> <ol style="list-style-type: none">1. The user accesses the app by scanning fingerprint and entering PIN number2. The app will display the main page3. User selects the Passwords button4. 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	<p>Step Action</p> <ol style="list-style-type: none"> 8. The user accesses the app by scanning fingerprint and entering PIN number 9. The app will display the main page 10. User selects the Passwords button 11. App displays the list of passwords that are connected to the app 12. User selects a Password 13. A drop down menu will appear with several checkbox options 14. A user can edit their password by checking and unchecking any of the boxes.
Extensions	<ol style="list-style-type: none"> 4. User can include/exclude special characters from their passwords 5. User can include/exclude numbers from their passwords 6. 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
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Used By	Users
Preconditions	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	<p>Step Action</p> <ol style="list-style-type: none"> 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
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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	<ol style="list-style-type: none"> 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	<p>Step Action</p> <ol style="list-style-type: none"> 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 <ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	<p>Step Action</p> <ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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
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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	<ol style="list-style-type: none"> 1.The password will not be deleted 2.multiple passwords were deleted
Actors	<ol style="list-style-type: none"> 1. Users who want to delete their passwords
Trigger	User selects a password and taps delete
DESCRIPTION	<p>Step Action</p> <ol style="list-style-type: none"> 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.
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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	<ol style="list-style-type: none"> 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 <ol style="list-style-type: none"> 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
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Used By	Users
Preconditions	The user has changed their password
Success End Condition	User pushes the update button
Failed End Condition	<ol style="list-style-type: none"> 1.No e-mail was sent 2.E-mail was sent to wrong person
Actors	The application
Trigger	User selects update password
DESCRIPTION	<p>Step Action</p> <ol style="list-style-type: none"> 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.
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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	<ol style="list-style-type: none"> 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	<p>Step Action</p> <ol style="list-style-type: none"> 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.
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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	