Use case 1

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| --- | --- |
| **Use Case** | Create Database |
| **Primary Actor** | Database user |
| **Goal in Context** | To allow the user to create a new database to store passwords whether it’s the first database or a completely new database  (Split into two use cases) |
| **Preconditions** | 1. User has program installed 2. User has program launched |
| **Trigger** | User wants to create a database to use the password manager for storing passwords. |
| **Scenario** |  |
| 1. User initiates “new database option” 2. User is prompted for a file name and location for the new database. 3. User provides name and database location 4. User is prompted to create a master password for the new database 5. User inputs a master password and then inputs it again to verify it. 6. User is prompted to input a database name 7. User inputs a database name 8. Database is created | |
| **Exceptions** |  |
| 1. User decides to cancel database creation    1. User selects cancel option    2. User is taken back to the main menu 2. User leaves master password field blank    1. Password field is left blank and user selects create database option.    2. User is prompted with error to input a password 3. User does not input file name for the database.    1. User leaves name field for the database blank.    2. Database filename becomes default filename. 4. File name for database already exists.    1. User types in name for a database.    2. User is prompted that the name already exists.    3. User is prompted to override, rename, or choose a new file location 5. When user input master password and then inputs it again to verify it, then the passwords do not match    1. User inputs both password fields    2. User is notified of error that passwords do not match | |
| **Priority** | Essential |
| **When Available** | First increment |
| **Frequency of Use** | Many times a day |
| **Channel to Actor** | Via program interface |
| **Secondary Actors** | n/a |
| **Channels to Secondary Actors** | n/a |
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| **Open Issues** | Should the program allow the user not to have a master password for a database?  What kind of encryption to use?  Should a password generator be used? |

Use case 2

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| **Use Case** | Add account to existing database |
| **Primary Actor** | Database user |
| **Goal in Context** | To add an account and login info for that account to an existing database |
| **Preconditions** | 1. Program is installed 2. User has program launched 3. User’s database already exists 4. User knows the master password |
| **Trigger** | User wants to add an account to the database to store the login info for an account |
| **Scenario** |  |
| 1. User selects the database they want to access 2. User logs into the database using the master password 3. User initiates “add account option” 4. User is prompted to enter an account label, username for the account, password, confirm password, description, and URL for account to log into. 5. User inputs required account label, username, password, confirm password, description, and URL for the account they want to add. 6. Password field and confirm password field match 7. New entry added with account information that user inputted. | |
| **Exceptions** |  |
| 1. User decides to cancel adding a new entry.    1. User selects cancel option    2. User is taken back to the main list 2. User doesn’t input any information for 1 or more of the required fields. (Label, username, passwords)    1. User does not enter in any information for one or all fields.    2. User is prompted an error to input required information. 3. Verify password field does not match password field.    1. User input passwords into the password field and verify password field.    2. User is notified that they do no match and has to input both passwords correctly. | |
| **Priority** | Essential |
| **When Available** | First Increment |
| **Frequency of Use** | Many times a day |
| **Channel to Actor** | Via program interface |
| **Secondary Actors** | n/a |
| **Channels to Secondary Actors** | n/a |
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| **Open Issues** | Should there be an option for generating a random password?  Should password be masked as it is typed in?  Should grouping system be implemented for added entries? Such as a general group, banking group, etc.  Should URL and description field be required or optional? |

Use case 3

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| --- | --- |
| **Use Case** | Edit password of an account in an existing database |
| **Primary Actor** | Database user |
| **Goal in Context** | To edit an account entry’s password in an existing database |
| **Preconditions** | 1. Program is installed 2. User has program launched 3. User’s database already exists 4. User knows the master password 5. Account entry already exists |
| **Trigger** | User wants to edit an already existing account entry in the database |
| **Scenario** |  |
| 1. User selects the database they want to access 2. User logs into the database using the master password 3. User selects account entry and initiates “edit account “ option. 4. User is prompted with a screen of preexisting information of the account to edit, which is the title, username, password, verify password, or url. 5. User inputs in new password and verifies it by inputting it again in the confirm password. 6. Password field and confirm password field match 7. User than accepts the newly edited password and the account entry is successfully edited. | |
| **Exceptions** |  |
| 1. User decides to cancel the editing of an account and the information the user edited is not implemented in the account entry.    1. User wants to cancel editing the account    2. User is taken back to the main list 2. Verify password field does not match password field.    1. User input passwords into the password field and verify password field.    2. User is notified that they do no match and has to input both passwords correctly. 3. User doesn’t input any information for 1 or more of the required fields. (Blank, same as case 2)    1. User does not enter in any information for one or all fields.    2. User is prompted an error to input required information | |
| **Priority** | Essential |
| **When Available** | Second Increment |
| **Frequency of Use** | Sometimes in a day |
| **Channel to Actor** | Via program interface |
| **Secondary Actors** | n/a |
| **Channels to Secondary Actors** | n/a |
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| **Open Issues** | Should there be an option for generating a random password?  Should password be masked as it is typed in?  Should this be multi platform or just windows? |

Activity diagram 1



Activity diagram 2



Activity diagram 3



Use case diagram

