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| **Team Number** | 06 | **Section** | 04 |
| **Team Members** | 1. Khoi Le 2. Bao Nguyen 3. Khoa Le | | |
| **Software Name** | Account Manager | | |

## Problem Statement

* Nowadays, when people want to log into a website, they are required to have an account and password. But with the rapid increase in the number of websites, it is hard to recall all of them. Using simple, easy-to-remember or even the same password for different accounts will come at the expense of low-level security and oftentimes become prey for hackers.
* We want to create a desktop application for everyone who wants to store all passwords for different websites/accounts instead of remembering by heart.

## Functional Requirements

* Users must sign up an account with username and password to create their new database.
* Users must login to the System by correctly typing their username and password.
* Users can change their password.

After login to the System, users can

* Add a new account information (Name, Category, Username, Password, URL …)
* Search for an account name.
* Update an account
* Delete an account
* Click the link to open the website
* Copy and paste the username and password if desired.
* Import accounts from a CSV file
* Sign out.

## References

* Egan, John. "Should You Use a Password Manager?" *Check Your Free Credit Report & FICO® Score - Experian*, 2 Apr. 2021, www.experian.com/blogs/ask-experian/should-you-use-a-password-manager/. Accessed 17 Sept. 2021.

## Use Cases

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** | | Signup. | |
| Goal | | | |
| This use case describes how to create the username, password and add a new database into the system. | | | |
| Participating Actors | | | |
| The User and the System | | | |
| Glossary | | | |
| A **database** is a place to store the user account on the computer. | | | |
| Primary Flow of Events | | | |
| Trigger | | | |
| The user clicks on the “sign up” button | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | The user clicks the signup button from the login page. | | The system prompts the user for the username and password. |
| 2 | The user enters a username | | The system displays the username. |
| 3 | The user enters a password | | The system displays the password. |
| 4 | The user clicks on the signup button | | The system displays the login page for successfully creating an account. |
|  |  | |  |
| Alternate Flow of Events | | | |
| **Alternate Trigger** | | | |
| The user clicks on the “Logout” button | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | The user clicks on the logout button from the login page. | | Exit the system |
| 2 |  | |  |
| *3* |  | |  |

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| --- | --- | --- | --- |
| **Use Case Name** | | Login to System | |
| Goal | | | |
| This use case describes how to log in to the system. | | | |
| Participating Actors | | | |
| The User and the System | | | |
| Glossary | | | |
| None | | | |
| Primary Flow of Events | | | |
| Trigger | | | |
| The user runs the application | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | The user clicks the icon to run the application | | The system prompts the user for the username and password (login page). |
| 2 | The user enters a username | | The system displays the username. |
| 3 | The user enters a password | | The system displays the password. |
| 4 | The user clicks on the sign in button or press Enter key. | | The system verifies the username and password. |
| 5 |  | | Shows the home page. |
| Alternate Flow of Events | | | |
| **Alternate Trigger** | | | |
| The user enters the wrong username or password. | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | The user enters the wrong username or password. | | The system displays a message “Invalid Username or Password”.  The system prompts the user to re-enter the username and password. |
| 2 |  | |  |
| *3* |  | |  |

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| --- | --- | --- | --- |
| **Use Case Name** | | Home page. | |
| Goal | | | |
| This use case describes how to access the main features through the homepage for users to use all the functions of the application. | | | |
| Participating Actors | | | |
| The User and the System | | | |
| Glossary | | | |
| None | | | |
| Primary Flow of Events | | | |
| Trigger | | | |
| The user enters the homepage | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | Click “Sign in” button. | | The system displays   * Data entry of fields (Account Name, Category, Username, Password, Url, Notes) * Add new, Clear, Delete, Update, Link Url, Import from CSV file, Close buttons and Search box. * The list of all records |
| 2 |  | |  |
| 3 |  | |  |
| 4 |  | |  |
| 5 |  | |  |
|  |  | |  |
| Alternate Flow of Events | | | |
| **Alternate Trigger** | | | |
| None | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | None | | None |
| 2 |  | |  |
| *3* |  | |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** | | Searching for an account. | |
| Goal | | | |
| This use case describes how to search a user account on the homepage. | | | |
| Participating Actors | | | |
| The User and the System | | | |
| Glossary | | | |
| None | | | |
| Primary Flow of Events | | | |
| Trigger | | | |
| The user clicks on the “Search” button | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | Enter a full or partial data of any field in the search box | | The system displays a list of records that meet the conditions. |
| 2 | . | |  |
| 3 |  | |  |
| 4 |  | |  |
| 5 |  | |  |
| Alternate Flow of Events | | | |
| **Alternate Trigger** | | | |
| The user enters full or partial account name that does not exist. | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | The user enters full or partial data which does not exist in any field. | | The system displays a blank list. |
| 2 |  | |  |
| *3* |  | |  |

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| --- | --- | --- | --- |
| **Use Case Name** | | Adding an account. | |
| Goal | | | |
| This use case describes how to add an account to the homepage. | | | |
| Participating Actors | | | |
| The User and the System | | | |
| Glossary | | | |
| None | | | |
| Primary Flow of Events | | | |
| Trigger | | | |
| The user clicks on the “Add New” button | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | Enter the account name. | | The system displays the account name. |
| 2 | Enter the category. | | The system displays the category. |
| 3 | Enter the username. | | The system displays the username. |
| 4 | Enter the password. | | The system displays the password. |
| 5 | Enter the URL. | | The system displays the URL |
| 6 | Enter the notes. | | The system displays the notes. |
| 7 | Click “Add New” button | | The system displays the list with the new account data. |
| Alternate Flow of Events | | | |
| **Alternate Trigger** | | | |
| None | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | Users do not enter the account name | | The system displays “Account name cannot be blank” |
| 2 | Users enter an account which has been existed | | The system displays “Duplicate account name” |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** | | Editing an account. | |
| Goal | | | |
| This use case describes how to edit an existing account on the homepage. | | | |
| Participating Actors | | | |
| The User and the System | | | |
| Glossary | | | |
| None | | | |
| Primary Flow of Events | | | |
| Trigger | | | |
| The user clicks the “Update” button. | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | Users click an account in the list | | The system highlights the account and displays its data in the fields. |
| 2 | Users modify the data fields. | | The system displays the account information modified. |
| 3 | Users click on the Update button | | The system displays the list with all the newly edited information. |
| 4 |  | |  |
| 5 |  | |  |
| Alternate Flow of Events | | | |
| **Alternate Trigger** | | | |
| The user clicks on the “Cancel” button | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | Enter the duplicated account name. | | The system does nothing. |
| 2 |  | |  |
| *3* |  | |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** | | Deleting an account. | |
| Goal | | | |
| This use case describes how to delete an existing account on the homepage. | | | |
| Participating Actors | | | |
| The User and the System | | | |
| Glossary | | | |
| None | | | |
| Primary Flow of Events | | | |
| Trigger | | | |
| The user clicks the “Delete” button. | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | Users click an account in the list | | The system highlights the account and displays its data in the fields. |
| 2 | Click “Delete” option. | | The system displays all the newly edited information on the homepage |
| 3 |  | |  |
| Alternate Flow of Events | | | |
| **Alternate Trigger** | | | |
|  | | | |
| **Steps** | **Action** | | **System Response** |
| 1 |  | |  |
| 2 |  | |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** | | Link URL. | |
| Goal | | | |
| This use case describes how to open the website / folder / file associated with to URL field of a selected account | | | |
| Participating Actors | | | |
| The User and the System | | | |
| Glossary | | | |
| None | | | |
| Primary Flow of Events | | | |
| Trigger | | | |
| The user clicks on the “Link URL” button. | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | Users click an account in the list | | The system highlights the account and displays its data in the fields. |
| 2 | Click the “Link URL” button | | open the website / folder / file associated with to URL field of a selected account. |
|  |  | |  |
| Alternate Flow of Events | | | |
| **Alternate Trigger** | | | |
|  | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | Blank URL field | | Open the current folder of the application |
| 2 | Wrong data or cannot find the specific website/folder/file | | An error message displayed |

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| --- | --- | --- | --- |
| **Use Case Name** | | Import Data from CSV file | |
| Goal | | | |
| This use case describes how to import a list of accounts from a CSV file. | | | |
| Participating Actors | | | |
| The User and the System | | | |
| Glossary | | | |
| None | | | |
| Primary Flow of Events | | | |
| Trigger | | | |
| The user clicks on the “Link URL” button. | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | Click the “Import from CSV file” button | | The system opens the dialog to choose files. |
| 2 | Users select a specific CVS file | | The system displays all new accounts import from the CVS file |
|  |  | |  |
| Alternate Flow of Events | | | |
| **Alternate Trigger** | | | |
|  | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | Duplicate accounts with the existing accounts | | System displays the error message and does nothing. |
| 2 | Data in the CSV file are invalid | | System imports a part of data or nothing |

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| --- | --- | --- | --- |
| **Use Case Name** | | Exit the Homepage. | |
| Goal | | | |
| This use case describes how to exit the homepage when the user no longer needs it. | | | |
| Participating Actors | | | |
| The User and the System | | | |
| Glossary | | | |
| None | | | |
| Primary Flow of Events | | | |
| Trigger | | | |
| The user clicks on the “Close” button. | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | Click on the “Close” button | | Log out the homepage and return to the login page. |
| 2 |  | |  |
|  |  | |  |
| Alternate Flow of Events | | | |
| **Alternate Trigger** | | | |
|  | | | |
| **Steps** | **Action** | | **System Response** |
| 1 |  | |  |
| 2 |  | |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** | | Change password | |
| Goal | | | |
| This use case describes how to change the current password to a new password. | | | |
| Participating Actors | | | |
| The User and the System | | | |
| Glossary | | | |
| None | | | |
| Primary Flow of Events | | | |
| Trigger | | | |
| The user clicks on the “Change Password” button. | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | Enter the username and the current password of the system | | The system checks the username and password. |
| 2 | Enter a new password and the confirmation password | | The system checks the confirmation |
|  | Click the “OK” button | | The system displays “Password has been changed” |
| Alternate Flow of Events | | | |
| **Alternate Trigger** | | | |
|  | | | |
| **Steps** | **Action** | | **System Response** |
| 1 | The new password and confirmation password do not match | | System displays the error message and return to re-type the passwords |
| 2 | Click the “Cancel” button | | System does nothing and return to the Login page |

## Mockup

**Sign in**

Graphical user interface

Description automatically generated

**Search**

Table

Description automatically generated

## Glossary

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