Software Design Specification - Password Vault
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1   Introduction

In this document, a detailed explanation has been provided with regards to how the software is designed and how it is going to be implemented. The following are the sections in this document

2   Application Design

This section is going to address the possible ways the user is going to interact with the application. It is going to tell the paths that user will take based on the use cases provided in the Software Requirements Specification document.

There are two kinds of users. One is an existing user, and one is a new user. There are a lot of overlap in terms of use cases. But the difference between these users is that new user will be using an additional form to create a new user record in the database while existing user doesn't. But after the account is created, functionality wise everything is exactly similar. This can be depicted as a diagram as shown in Fig 1
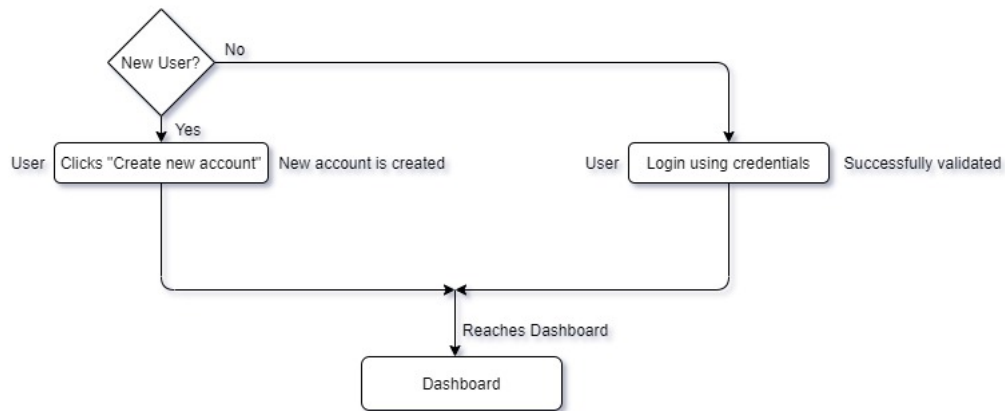

Figure 1: From Landing Page to Dashboard

2.1 Add new password

To add a new password the user must login to the web application using the credentials. Upon successful authentication it leads to the dashboard. The user must click "Add password" to bring up the form. User is asked to enter the details given as per the form. When user clicks submit, the webpage asks for the Master password. When successfully authenticated, the new password is added to the vault.
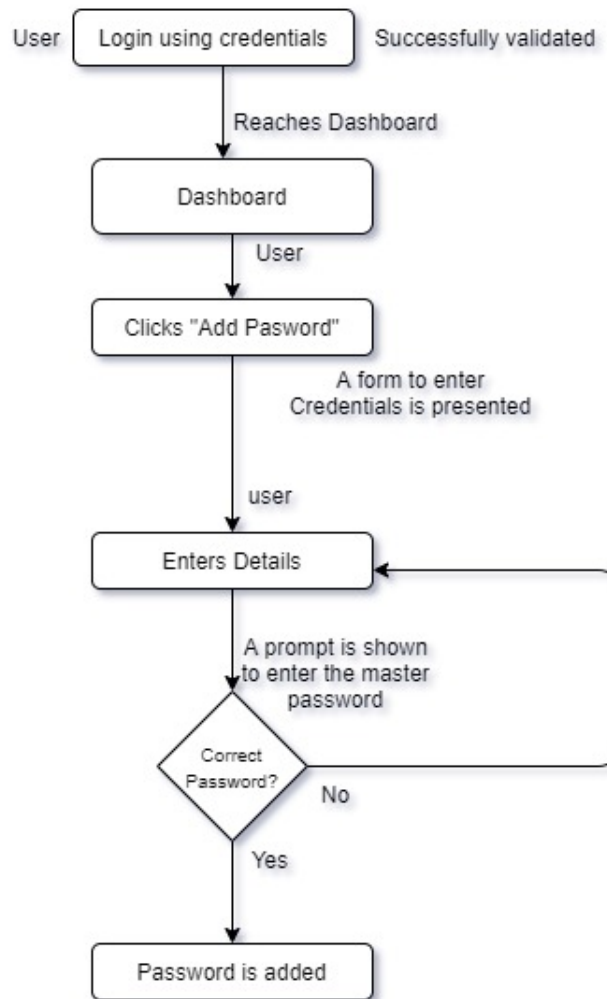

Figure 2: Add new password

2.2 Update the password

To update the password for a particular website, the user have to login to the application. After successful authentication, the user clicks the card which reveals the details of the website. The user then clicks "Update" on the top-right hand corner. The user is then requested to enter the master password. When the password is authenticated successfully, the user is presented with the form to enter the updated password. After clicking submit button, the password gets updated.
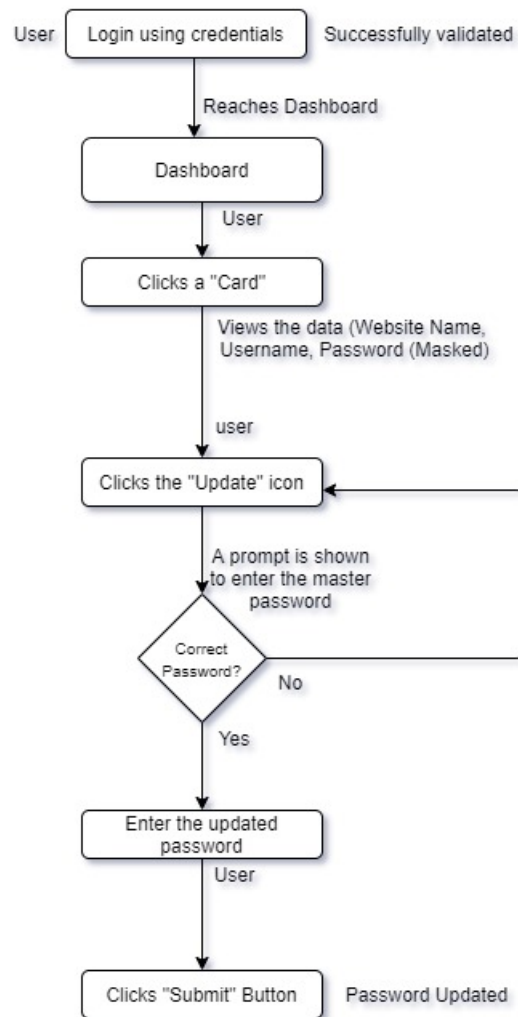
Figure 3: Update Password

2.3 Delete Password

In order to delete the password, the user will login to the website, and click the card which reveals the details present in the card. Then the user clicks the "dustbin" icon, and the website will request the user to enter the master password. Upon successful authentication of the master password, the password for that website gets deleted.
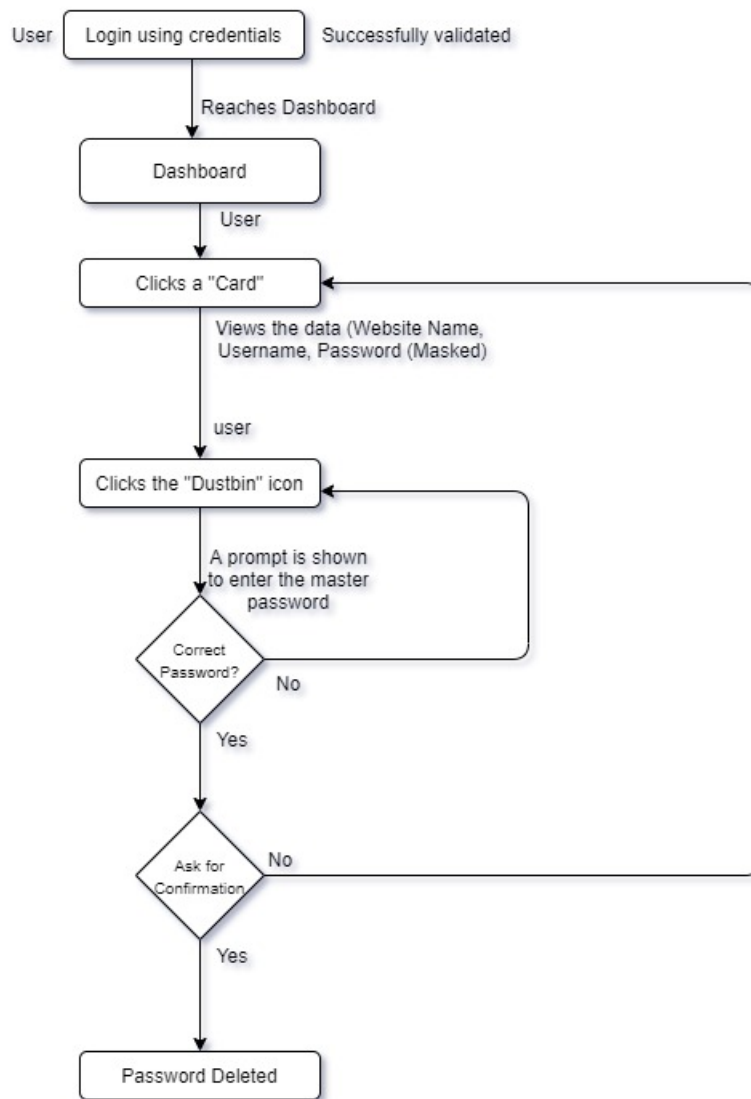

Figure 4: Delete Password

2.4   View Password

In order to view a password for a particular website, the user will login to the web application, and click the card which reveals the details present in the card. Then the user clicks the "eye" icon, and the website will request the user to enter the master password. Upon successful authentication of the master password, the password for that website will be shown to the user.
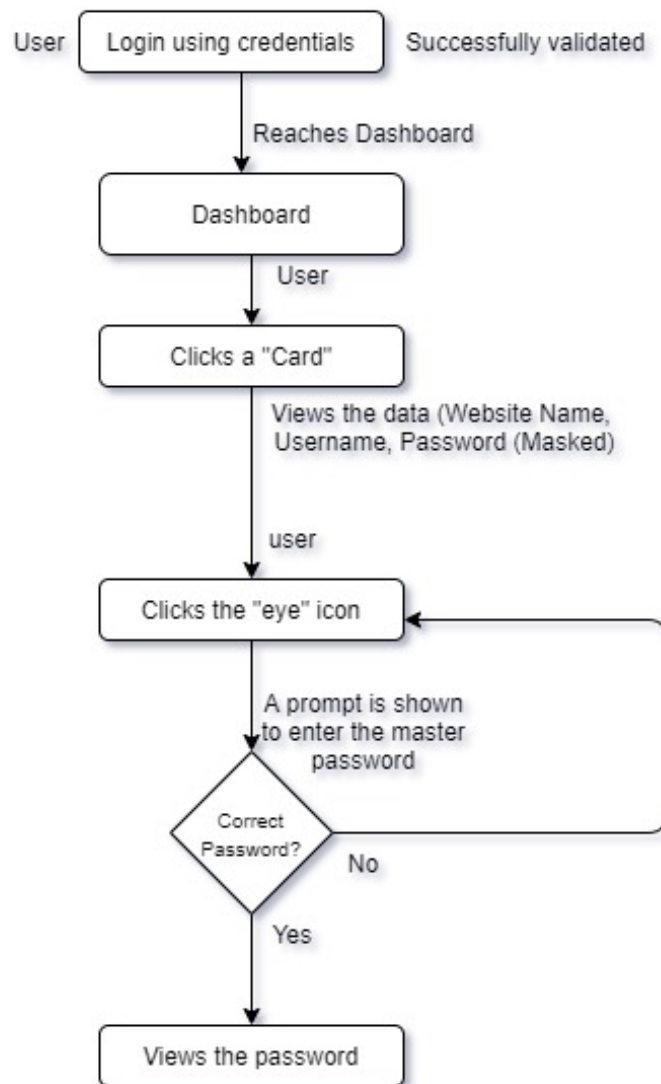

Figure 5: View Password

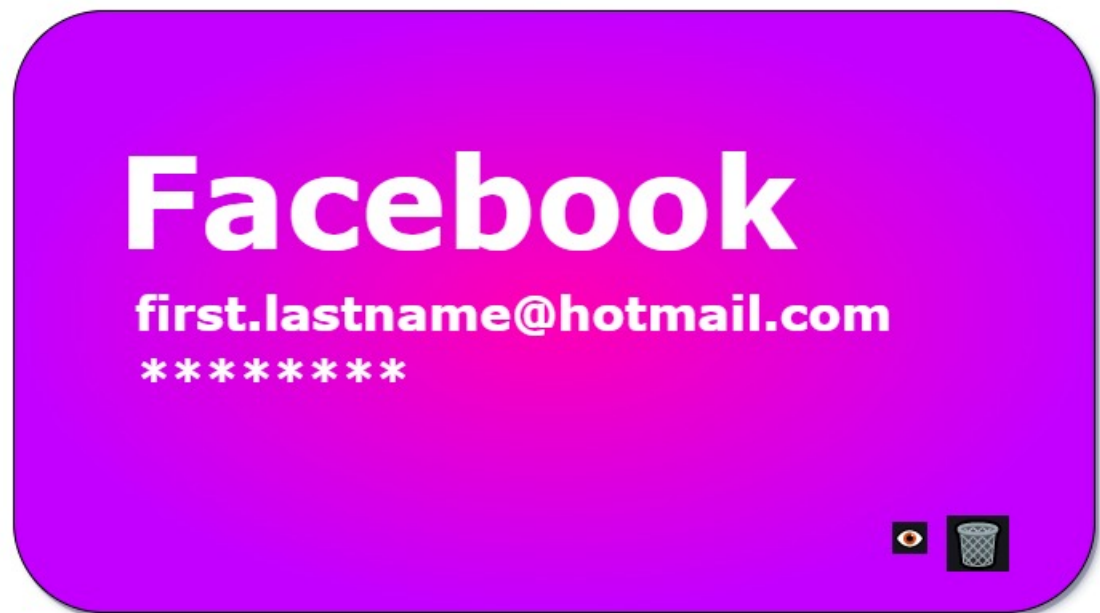# 3 GUI Mockups

Figure 6: Design of the card

Figure 7: Password Vault Layout

Figure 8: Details inside the card