

# ENPM 809W - Project - Password Vault

## Software Design Document

### Student Details

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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 design of the webpages will be more User Intuitive than what is shown in the document due to the constraints like inability to show animations, gradients etc. The design in this document shown is just a representation that will be enhanced during implementation.

## 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

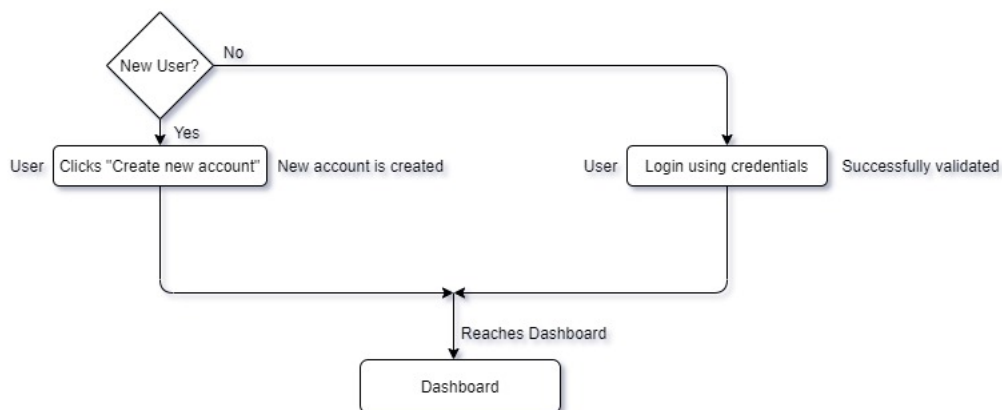


Figure 1: From Landing Page to Dashboard

## 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.

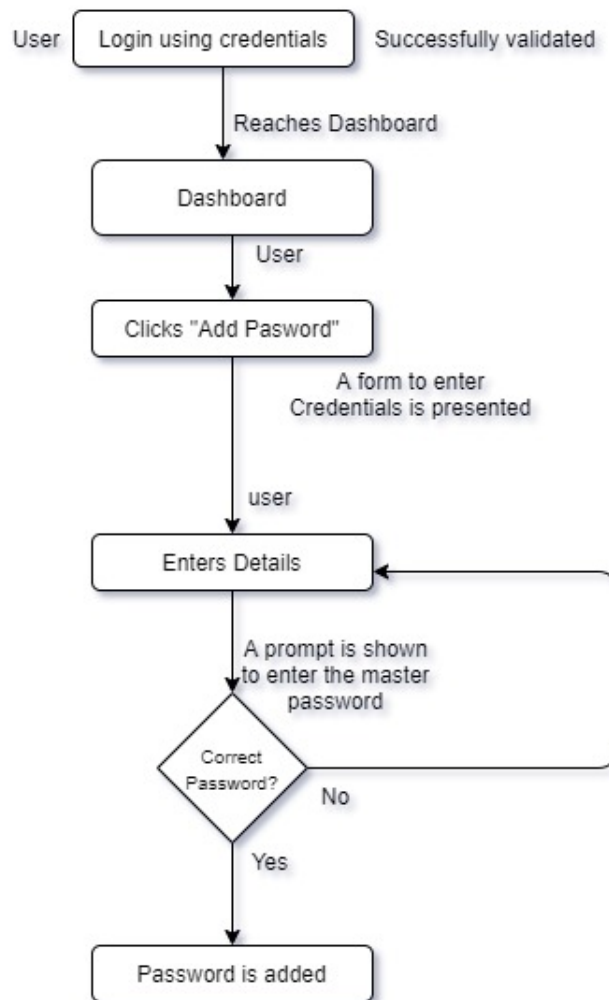


Figure 2: Add new password

## 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.

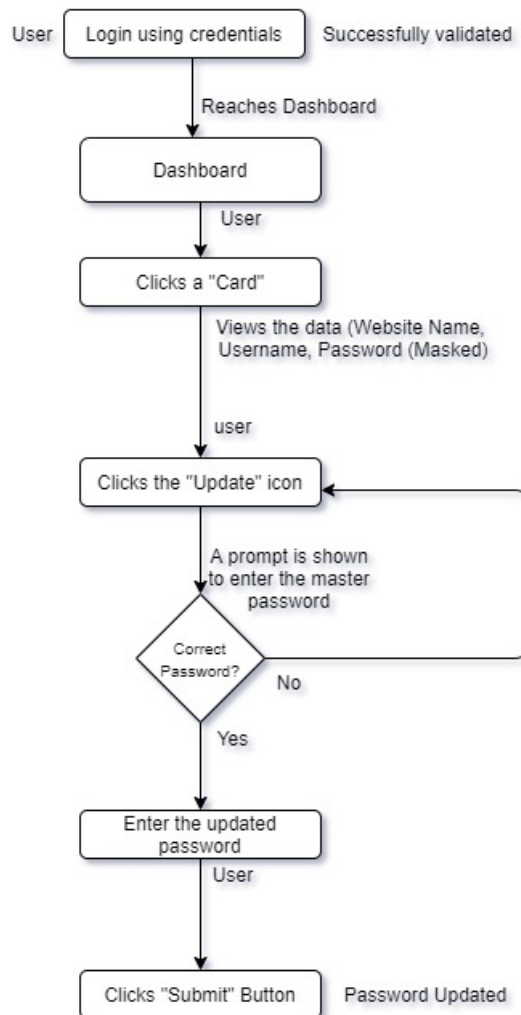


Figure 3: Update Password

## 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.

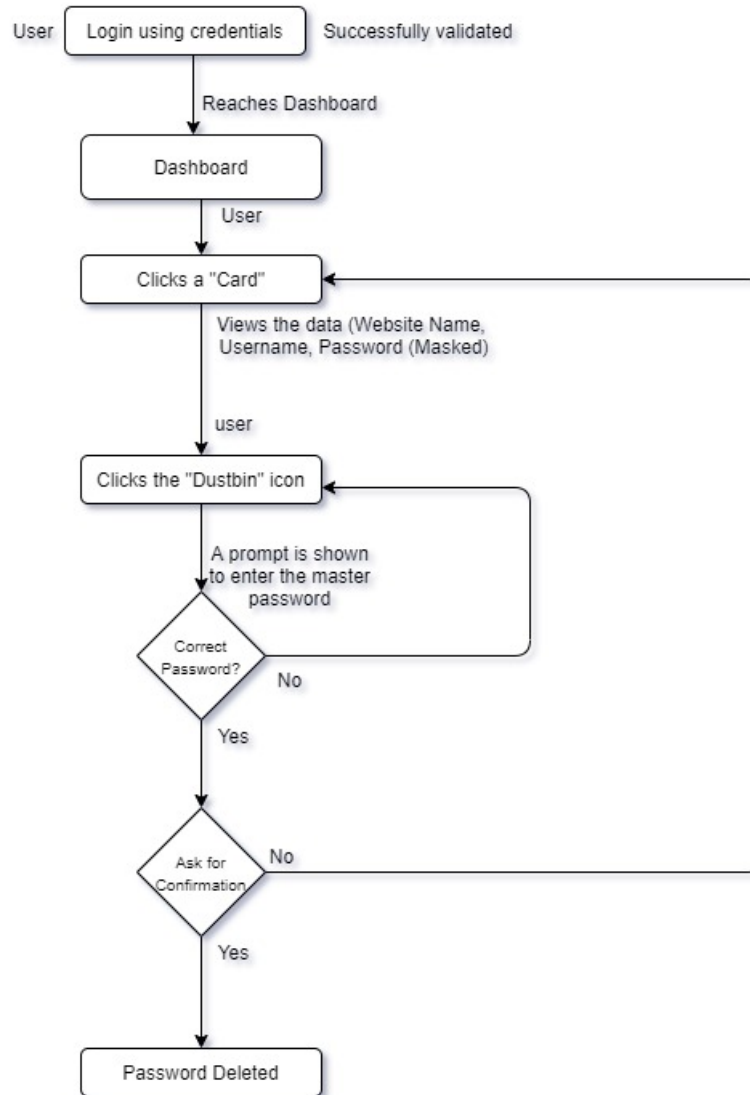


Figure 4: Delete Password

## 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.

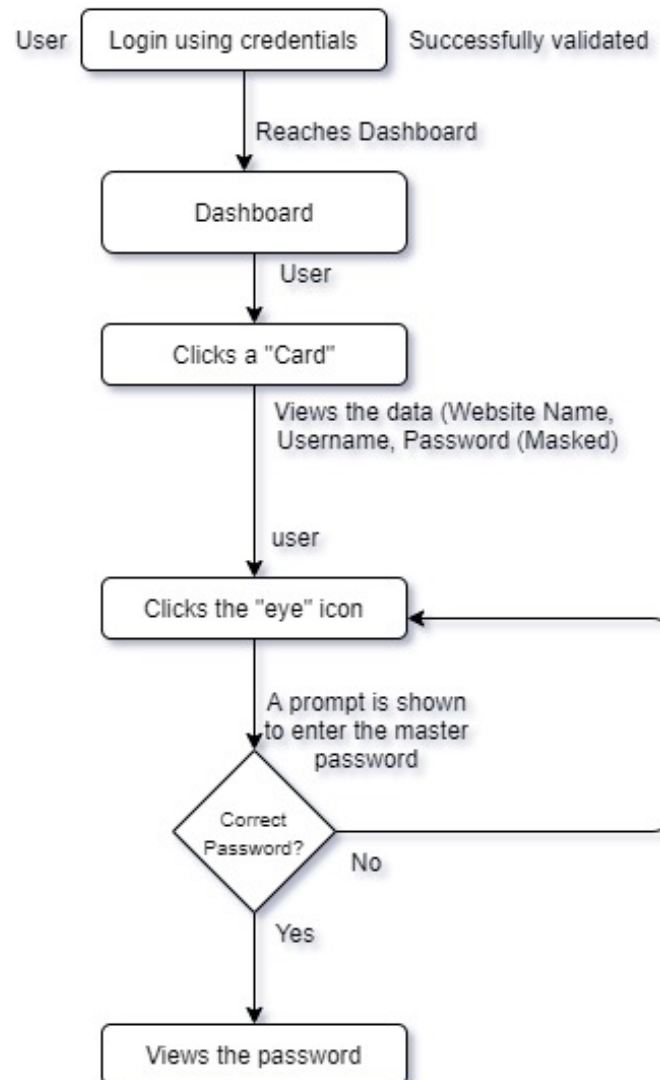


Figure 5: View Password

3 GUI Mockups

Cards



Figure 6: Design of the card

Password Vault Layout



Figure 7: Password Vault Layout



Figure 8: Details inside the card

## 4 Database Tables

VARIABLE NAME	DATA TYPE	ADDITIONAL NOTES
ID	Primary key	Auto Incremented
NAME	Letters	
EMAIL	VARCHAR	
PHONE NUMBER	NUMBER (int)	
PASSWORD	VARCHAR	Password Encrypted with master password

Table 1: Master Login Table

VARIABLE NAME	DATA TYPE	ADDITIONAL NOTES
Username	VARCHAR	
Password	VARCHAR	Encrypted Using the Master Password
EMAIL	VARCHAR	Email ID linked to the User account
Comment	VARCHAR	Additional comments from the User for reference

Table 2: Password Vault Database