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

## Introduction

* 1. **Objective**
* The objective of this document is to describe the software components for the project "Account Manager" that the designers would need to complete the interface development. The intended audiences for this document are the software developers who are directly involved in this project and also other developers as references to read. We attempt to come up with a broad vision for the project so that all of our teammates would understand the direction and can cooperate effectively. After gathering all the requirements and desired features from the customer in terms of product architecture, we began writing this document with the goal of summarising all the information needed to start designing the product.
  1. **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.
  1. **Acronyms, and Abbreviations**

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| --- | --- |
| Database | A database is a place to store the user account on the computer. |
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## Software Overview

* 1. **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.
* Desktop software for everyone who wants to store all passwords for different websites/accounts instead of remembering by heart.
  1. **Scope**
* This software targets all kinds of users who want to store their passwords for different accounts securely and conveniently. Users only need to remember one master password to log into the “Account Manager” software to access the data. Anyone who knows how to use and works with computers can download the software.
  1. **Technological Requirements**
* To implement the project, we’re going to use the following technologies: JavaFX Scene Builder with FXML for the front-end; Java version 8 or above for the back-end; Eclipse IDE to run the code; SQLite for the database and Github to collaboratively work on code. This product shall be run on all existing operating systems, including MacOS, Windows,... with the requirements of Java version 8 already installed in the system.

## Detailed Design

* 1. **UML Class Diagrams** (for all classes)

Diagram

Description automatically generated

* 1. **UML Sequence Diagrams** (at least one of them)

**Chart

Description automatically generated**

* 1. **UML State Diagrams**

Diagram

Description automatically generated

* 1. **User Interface**

Graphical user interface

Description automatically generated**Login**

**List of accounts and data manipulation after successful login**

Graphical user interface, application

Description automatically generated

**Search function: for example: Educ**

**Graphical user interface, application

Description automatically generated**

**Select, Add New, Update, Delete**

Graphical user interface

Description automatically generated

**Link to URL**

Graphical user interface, website

Description automatically generated

**Graphical user interface

Description automatically generatedChange Password**

**Import from CSV file**

Graphical user interface, text, application

Description automatically generated