Title of Your Paper

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Contents

[Goals & Objective 4](#_Toc162348444)

[Updated Timeline 4](#_Toc162348445)

[Feature List 5](#_Toc162348446)

[New Features 5](#_Toc162348447)

[Improvements 5](#_Toc162348448)

[Team Members Responsibilities 5](#_Toc162348449)

[Tools & Technologies 6](#_Toc162348450)

[Git Hub 6](#_Toc162348451)

[Trello 6](#_Toc162348452)

[Visual Studios Code 6](#_Toc162348453)

[Python 6](#_Toc162348454)

[Flask 6](#_Toc162348455)

[MongoDB 6](#_Toc162348456)

[SRS Document 7](#_Toc162348457)

[Functional Requirements 7](#_Toc162348458)

[Non-Functional Requirements 7](#_Toc162348459)

[Diagrams 7](#_Toc162348460)

[UI/UX Modelling 7](#_Toc162348461)

[Lo-fi Wireframe 7](#_Toc162348462)

[High-fi Wireframe 7](#_Toc162348463)

[Usability Testing 7](#_Toc162348464)

[References 8](#_Toc162348465)

[Appendix 1 8](#_Toc162348466)

# Goals & Objective

**Goals:**

Enhance security measures to protect user data from unauthorized access.

Offer diverse password customization options.

Deploy application online for public use.

**Objectives:**

Implement 256-AES encryption to secure user passwords and sensitive data.

Introduce animal ID authentication feature to enhance login security.

Add paraphrase generator to improve our password generator.

Expand current MasterVault for family password managements.

## Updated Timeline

## Feature List

### New Features

* Saving different login details
* Adding types of account options
* Search & Filter
* Secure/lock passwords

### Improvements

* 256-AES Encryption
* Securer login
* Move MasterVault online
* Paraphrase Generator

## Team Members Responsibilities

For the development of this product, we decided to divide the work into back-end development and front-end development. I (Conor) will work on the back-end development, while Nicki will work on front-end development. However, we will not exclusively work on front and back-end. These are just the main area each of us will focus on.

Conor

* 256 AES Encryption
* Moving app online

Nicki

* About Us Page
* Animal ID

Conor & Nicki:

* Paraphrase Generator
* Family Accounts

## Tools & Technologies

### Git Hub

(Wanstrath et al., 2008)

GitHub will be used for code collaboration. It has been a stable product for collaboration, and we have plenty of experience using it in the past.

### Trello

(Cannon-Brookes & Farquhar, 2011)

Trello is a project management tool. It allows us to have a visual representation of tasks using lists and cards. It allows us to assign work to teammates and track the progress of one another and the progress of the project.

### Visual Studios Code

(Microsoft, 2021)

Visual Studios Code is a programming software that has many inbuild features and downloadable extensions that will be vital for development.

### Python

Python's simplicity, extensive libraries, and built-in cryptography make it ideal for developing a password manager across multiple platforms. It also has a code library for web development

### Flask

Flask is a community-built code library used for Web Development. The

### MongoDB

(P. Ryan, 2009)

# SRS Document

## Functional Requirements

### Password Storage

The password manager should allow users to safely keep track of their login information for many accounts. It should support storing usernames, passwords, and associated URLs or notes for each account.

### Encryption

All stored passwords and sensitive data should be encrypted using strong encryption algorithms to ensure security. Encryption keys should be securely managed and not accessible to anyone other than the user.

### Password Generator

The password manager should have a feature to generate strong, unique passwords for users.

Users should be able to customize password generation settings such as length, complexity, and allowed characters.

## Non-Functional Requirements

### Security

The password manager must adhere to industry-standard security practices to protect user data from unauthorized access or breaches. It should employ encryption, hashing, and other security measures to safeguard sensitive information.

### Reliability

The system should be highly reliable, ensuring that users can access their passwords whenever needed without downtime or data loss.

### Privacy

The password manager should respect user privacy and not collect or share any personal data without explicit consent. It should have clear privacy policies and settings for users to control their data.

## Diagrams

# UI/UX Modelling

## Lo-fi Wireframe

## High-fi Wireframe

## Usability Testing

# References

Wanstrath, C., Preston-Werner, T., & Hyett, P. J. (2008). *Let’s build from here*. GitHub. <https://github.com/>

Cannon-Brookes, M., & Farquhar, S. (2011). *Trello brings all your tasks, teammates, and tools together*. Trello. <https://trello.com/>

Microsoft. (2021, November 3). *Visual studio code - code editing. redefined*. RSS. <https://code.visualstudio.com/>

P. Ryan, K. (2009, February 11). *The developer Data Platform*. MongoDB. <https://www.mongodb.com/>

# Appendix 1