**PASSWORD PROGRAM: PROJECT REPORT**

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# Overview

The aim of my project was to provide computer users with a secure, reliable and simple password manager program that also allows users to find out whether their data has been breached. The core principles behind this software was to improve login security and awareness of data security while making an accessible and free product. I have since implemented and tested a software solution based on the previous design brief.

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# 1. Development Lifecycle

Throughout the development of my project, I utilised the ‘Rapid Application Development’ methodology. The reasoning behind this being practicality as well as facilitating a linear process in which I don’t waste time revisiting previous steps. I could also focus on a prototype which I quickly develop, test and then finalise.

# 2. Requirements

# 3. Approach

## 3.1. Data Structure

## 3.2. Algorithms

## 3.3. Complexity Analysis

## 3.4. Testing and Metrics

# 4. Results

## 4.1. Verification & Validation

## 4.2. Reflecting on Methods

## 4.3. SWOT Analysis

## 4.4. Ethics and Legalities