

Team 10 Project Charter

Team Members: Vikram Kavalipati, Andrey Georgiev, Faisal Alsayyari, Yousef Alokaili

Problem Statement:

Some businesses and people need an application to manage credential storage and are uncomfortable using server-based applications that put them at higher risk. Additionally, people find difficulty keeping up with critical security practices such as creating strong passwords, changing passwords periodically, and avoiding repeat passwords. Our application, Lock-In, aims to solve these issues through providing a password manager that supports two modes its users can choose from: an offline password manager allowing users to store sensitive information locally and a server-enabled version that allows users to sync password manager use across devices. This will make using harder passwords more easily achievable for users as our application keeps track of their credentials for them and reminds them of when crucial security actions are recommended. It will be unlike existing services due to it having a client only optionality. It will also have unique features like face id, and it will be free and open source, making it far more accessible than paid services.

Project Objectives

- Create a website to allow people to access their secured information they can not remember.
- Create a user profile system to allow for individuals to store their information
- Implement security between the front end and back end to keep information safe
- Add additional security features such as biometric identification
- Recommend security actions to users such as cycling passwords, replacing weak passwords, and avoiding duplicates.

Stakeholders

Users: Primary users would be businesses or persons with highly sensitive credential information they need to host locally for an extra layer of safety. Secondary users include persons who value their credential security and need either synchronization across devices or local storage for security.

Developers: Andrey Georgiev, Vikram Kavalipati, Faisal Alsayyari, Yousef Alokaili

Project Manager: Rachit Kumar

Project Owners: Andrey Georgiev, Vikram Kavalipati, Faisal Alsayyari, Yousef Alokaili

Deliverables

- A React JS based front end that allows the user to interact with the web app, and web pages formatted with HTML and Tailwind CSS.
- A Node JS backend that interacts with the database and handles encryption of passwords.
- A Supabase database that stores user login information, along with zero knowledge encryption to ensure security.
- A master password for user login that is encrypted with a secure algorithm, and Webauthn used for biometric user authentication.
- A client only mode that hosts the app locally, with an SQL lite database being used to store user passwords.