**Report**

**Title: Password Manager System**

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**Introduction:**

Creating strong passwords is a necessary procedure in order to stay safe online. Unfortunately, complex passwords are difficult to remember; besides, you need to create a separate password for each account. For example, if you have 10 login passwords for different Internet accounts, memorizing becomes very difficult, especially if you are changing them every 3 months. Fortunately, there is a solution for this problem as for many others.

Password manager helps you to organize your passwords according to each Internet service used. You can set complex passwords for each account and retrieve them easily when needed. This system is so crucial these days because there are so many different applications in the market and remembering username and passwords for each of them is a difficult task for one person.

**Problem Definition:**

In this project we aim to solve this problem by creating a python application which will store a particular user’s passwords for different applications along with the username and email he has used for that application. The user can access all his passwords using one master password and username.

**Usage**:

User Registration & Login functionality using GUI, adding new passwords for each user, Updating Existing Details in the database, Deleting existing passwords from the database

**Future Scope:**

Encryption of passwords for storing in the database, helping user to generate strong passwords and storing the same.

**Conclusion:**

The project helps us understand python tkinter module thoroughly and various queries of database. The project clears the concept of how CRUD operations can be done using python and sqlite3. Apart from that we also have a working password manager system to store passwords for different applications and retrieve it when necessary.