

# Password Management with DB(My PassBook)

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The motive behind creating a Password managing app/UI is to have my own app that can store or save my different credentials for different website securely and I do not need to remember them all the time. I can access and keep tracking all of them with one security key/password.

## Challenges:

To create this interface/app, there are some challenges that I need to implement such as how a password manager vault works or what is hashing and how it works for password so It can get hashed in hash values. After reading some articles over encryption vs hashing, I got to conclusion that hashing is better in way to work with very sensitive info like passwords because Encryption is a two-way function; what is encrypted can be decrypted with the proper key. Hashing, however, is a one-way function that scrambles plain text to produce a unique message digest. ... An attacker who steals a file of hashed passwords must then guess the password.

## My tasks:

- **To create a SQL database.**
  - Store passwords and details of website or app to that database.
  - And retrieve those passwords and details from SQL database.
- **Create basic interface** (for the moment I will stick with terminal interface, but I will try to implement it with GUI such as tkinter)
  - First time user can create that master password with username that will be key to database.
  - User will be asked every time to enter master password to access the database of password vault.
  - Then it will show menu options such as save new credential, show all sites/app and their login id- passwords.
  - For 1. Option it will ask for basic info like name/URL of website/app, email/login id and password.
  - **Optional:** add saved password to clipboard to paste it easily anywhere, and search password by entering site/app name.

- One way hash Function to convert text password to hash value.

