I am working on to create a project where I can create a framework where you have password manager and system is designed to add, modify and delete passwords as their basic functionality. I am trying to write the code using OOP.

functionality of the class.

class is created with the name SecurePasswordManager,

methods I want in it.

1. first we want to initialize 3 json.
2. 'master\_login.json' - for having master password and username to inter into the password manager.
3. app\_password.json - for haing app specific username and passwords.
4. log.txt - to keep log of all the activity happening in this application starting from login to logout.

within this class we want some functionality.

1. check if user is there already or new user. if new user, then ask them to sign up using username, password and email.
2. when user logs in show them their existing usernames and website names.
3. keep a functionality of reading, adding, updating and deleting the passwords and username for any website. also keep the functionality of deleting user data all together.
4. always encrypt the user information and only show this info to user when they are able to login.
5. when ever user logs in give them options to see all the saved username and password. see any specific password, in this case first show them all the saved website and their username and ask user to select one or multiple website/usernames. then decrypt and show the data to user. also give them option to logout at this stage. whenever user takes any input always give them option to go back.
6. add necessary user input statements in methods as required.
7. keep track of all activities in the log file.