PASSWORD MANAGER APP

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Duot Duot - 2023

Overview

Overall Structure

The overall structure of the password manager app consists of a user interface, and a password dictionary. The user interface prompts the user to enter their choice and it also displays the corresponding response. The password dictionary is a JSON file which stores saved passwords

Main Features

Add Password - This feature allows the user to add a new password to the password manager. The user will be prompted to enter a site name and password, and the password will be encrypted and stored in the password manager's dictionary. The application will also write the updated password data to a JSON file on disk.

Show Password - This feature allows the user to retrieve a saved password from the password manager. The user will be prompted to enter a site name, and the application will check if it is available in the password manager's dictionary. If it is found, the corresponding encrypted password will be retrieved, decrypted and printed to the console. If the site name is not found, the application will notify the user.

Delete Password - This feature allows the user to delete a saved password from the password manager. The user will be prompted to enter a site name, and the application will check if the site name is present in the password manager's dictionary. If it is found, the corresponding password will be deleted from the dictionary and the updated password data will be written to the JSON file. If the site name is not found, the application will notify the user.

Overview of the code.

A user interface is one of the main features of the app. It is important too because it gives an insight to the user of what the app does behind the scenes. Without the user interface, the app would be useless.

The main features of the app are conveyed by defining them as functions in the app. The use of conditional statements, loops and variables have made it possible to deliver the purpose of these functions and the app itself. I have also created a JSON file to store the passwords.

An important aspect of the app is the ability to encrypt and decrypt passwords. Passwords are sensitive and this feature is a necessary part of the app. Without it, it would defeat the whole purpose of the application.