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Project 2 Proposal

Password Manager

For my project I plan on creating a 'password safe' of sorts that allows a user to save their usernames and passwords for a variety of websites in a convenient location. The project will utilize file encryption to help protect the user's information and will likely require a password to be inputted for entry. I feel as though this is a useful and realistic project because so many people lose their passwords or store them in unprotected locations that could compromise their security. Creating a platform which allows the user to more easily access and change their passwords would also help prevent people from using the same password for every website, which is said to be dangerous.

As I don't know much about encryption, I will have to look further into methods of cryptography to ensure efficient mechanisms of protection. As of now I am imagining that the information will be stored in a multidimensional array that links the website to its respective password. In order to print this list the user would have to enter a string (password) which matches a string value determined by the program. Unless the correct password is entered all the data in the array will remain encrypted, which I understand this is done via a cipher, of which there are pre-existing ones to be utilized.