Pass Manager Design Doc

Deiaco Developments

PassManager is a basic application developed to securely store a list of passwords. This list will be encrypted when locked, and once unlocked by a master key, will be able to be viewed and manipulated.

Options:

1. A password list will be unlocked and decrypted with a master key. The file format of the password list and the unlock key are as follows. There shall be two files. One file will contain the Account Name, Master Username for that Account, a Master Password, and a filename associated with a bulk encrypted list of password. The second file is the bulk encrypted list of passwords.
2. Use the Username to decrypt the entire file, verify that the chosen file is indeed the one that belongs to the username, then decrypt the bulk password list with the password. This will have a double layer of encryption, yet will take increased time if there are multiple accounts since this method will have to decrypt each until it finds the correct account.

File Header:

Account Name, Bulk Encrypted Password List