Abstract:

My project is a simple password manager. It is intended to be used to store login and account ID`s and passwords in an organized way while keeping the information safe. It can help with those who have many accounts for many different things and find it hard to keep them all straight in there head.

Intro:

I have upwards of 50 accounts in my name for various reasons that I need to be able to remember and keep all information about them safe and secure, while being able to access them easily. The password manager I have created uses encryption to ensure the safety of all the information it collects. To do this all accounts are placed in a JSON file in respect to their fields they belong in and the file is secured.

Detailed System Description:

The system runs as follows, in the main method the menu method is called with prompts the user for a decision to be made and to enter a number in order to chose an action. when the user enters a number the menu method calls the menuChoice method which checks if the number entered is a option if so the method is called else the user is told the input is invalid.

PassManager
userChoice: int selection: int accountName: String username: String pw: String
menu(): void menuChoice(): int write(): void read(): void generatePw(): void

Requirements:

Everyday new accounts are made, average people are now required to remember many account logins and passwords and when to use them. This becomes difficult. The solution to this is to use a password manager that records all account information and passwords and then secures it with a single password. This helps in origination and allows the user to stay on top of the accounts they own

Literature Survey:

The system is not yet complete. Currently only one account may be added to the file to be saved and the encryption of the file is not complete with leaves the file insecure and the data unsafe. In addition the class for creating different accounts is incomplete. The class is important to complete in order to save the multiple accounts that the user will need to add to the file.

User Manuel:

To use the java password manager first run the program and select from the list of options what action you would like to preform. press the number of the key that corresponds to the action desired. To write a new account to the file press "1" then hit enter. To view an account already saved to the file press "2" then hit enter. To generate a new password to be used for an account press "3" then hit enter. Finally to quit the program press "4" then hit enter.

Conclusion:

This System in its current state can properly read and write an account to a JSON file and additionally generates passwords for accounts being made. Most of the main components of this system is complete the next step is to focus on security and ensuring the file with the user`s information is secured.

References/Bibliography:

"Simple.JSON." Google Code Archive - Long-term storage for Google Code Project Hosting. N.p., n.d. Web. 07 Apr. 2017. https://code.google.com/archive/p/json-simple/