Ryan Fox

BCS 316

Project

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READ ME

**How to Run!**

To run this program you must write “perl project-fox.pl” followed by a file name via the command line. If you simply just run “perl project-fox.pl” it will generate a file called “!” for you and if you do enter a file name but it doesn’t exist it will be created for you and will work with that file for the session until you exit the program.

**Description**

In this PERL program you will be able to handle files that contain user information such as their first name, last name and their username. In a file each line contains something like this for example “RYAN:FOX:RFOX” in that exact format. Each is separate by a “:” as this is the way text files must be formatted! In this program when it is ran you will be prompt a menu and you can then select actions you would like to do with the file given to the program via the command line.

**Menu**

In the menu you have five options to choose from.

1. Print user information
2. Add new user
3. Search user
4. Delete user
5. Exit

You may enter in an option via the command line and do the following. If you enter in something that is not a valid option it will tell you that and ask you to enter in something else again. The only way to terminate the program is by either doing CTRL+D and x or X. Regardless of which option you choose if you enter in the character as a uppercase character or a lowercase character it will be identified as the same thing and will run fine.

**Print**

The print option is an option that prints all the information that is contained in the file. The thing that’s nice about this print option is that it will print all contents of the file in a neat and organized manner that is appealing to the eye. The format of it is a little different then the file the username is comes first then the first name then the last name. When printed it does not print the “:” from the file. Everything is printed nicely and aligned as well. The only problem with this print function is that if things are entered incorrectly in file such as things are lowercase it will be printed as lowercase as this at fault of the user for not correctly keeping the right format of the file. Also this print will print alphabetical order!

**Add New User**

When selecting the new user option you will be prompt to enter in the first name then the last name of the user you would like to add. After that it will generate a username for the user. If the username already exist the user will be given the same username but with a “1” added at the end of it. If it so happens that another user gets added with the same name it will then just append another “1”. for example “RFOX, RFOX1,RFOX11” and so on. Also it does not matter how you enter in the first name and last name everything will be changed to uppercase regardless of how it is entered. The program does this to ensure consistency with the file format we want. After adding a user you can then go choose the print option again to see that the user was appended to the file and is still in alphabetical order.

**Search**

If the search option is selected you will be prompt to enter in a first name. This first name will then be searched for and any person with the first name will be printed if they exist inside the file. If they don’t exist nothing will be printed. Just the header will be. The Search will be printed in file format but not separated by “:”.

**Delete User**

In this option you will be prompt to enter in a first name. After entering the first name the program then will delete every single user with that first name. If the first name you entered does not exist then it will print just the header. And display that nothing was deleted. If you entered in a name that did exist then it will print all the user that it deletes.

**Exit**

Simply exits the program by entering in either “x” or “X”.