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Individual Shell Programming Assessment: Sept 2018

Background Specification

You have been approached by the owner of a small local company, who requires a Linux-based software tool to allow them to keep track of all of their business contacts (i.e. their customer details). This tool will serve the purpose similar to that of the Address Book in common email applications.

The owner is particularly interested in keeping track of each customer's name, address (their county only), eircode, mobile number, and email address.

Based upon the above information the owner would like to be able to

- search for particular customer entries,
- add new customers and
- remove unnecessary customers from the Address Book.

This tool should also provide the user with the ability to e-mail any and all of the customers listed in the address book with details of upcoming promotions.

Assignment Specifics

You are required to develop a "menu driven" shell program that will allow the user to interactively update (i.e. add, remove etc.), search and list all their customer information, which is stored locally in a file called `CustomerDetails`.

The format of the "`CustomerDetails`" file should take the following format:

<Name> <Address> <Eircode> <Mobile Number> <Email Address>

Figure 1: "CustomerDetails" format

Guidelines

The following shell-programming assignment comprises of 4 separate functional components (separate shell programs).

1. `AddCust` The first script called `AddCust`, should be a standalone script that will update the Address Book file with a customers' details. This script should take five command line arguments, as shown in Figure 1: "CustomerDetails" format.
2. `RemCust` The second script called `RemCust` should remove all of a customer's information from the "AddressBook" based on a particular customer's name or alias.
3. `FindCust` The third script should allow the user to search for an existing customer based upon any personal details of that customer. Call this script `FindCust`.
4. `Menu` The final and most important part of this assignment is to develop a script called `Menu`. This script will present the user with a command line menu, which can be similar to the one seen in Figure 2: Menu below. This menu will allow the user to select from any of the previously mentioned shell scripts (i.e. `AddCust`, `RemCust` and `FindCust`) and a fourth feature which will allow the user to e-mail any or all the customers listed in the Address Book.

```
Welcome. Please choose one of the following:

        1. Add a new Customer

        2. Remove an existing Customer

        3. Search for a Customer

        4. E-mail a Customer

Enter a Number:
```

Figure 2: Menu

Final Details

This Shell Scripting Assessment is an ***individual*** piece of work.

Please ensure that at all times you correctly reference material when appropriate.

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How to submit your work

You will be required to zip all of your files and upload them to Moodle for grading

Interviews/demonstration of your work may be required after submissions.

And don't forget, Class discussion, tutorials and peer & lecturer support continue on the team communication platform ***Slack*** – whatever the weather!