

Individual Assignment

Shell Programming

Background



A Linux-based software tool is required to allow a local company to keep track of all of its business contacts.

The owner is particularly interested in keeping track of each **business name**, **contact person's full name**, **address**, **mobile number**, and **email address**.

Based upon the above information the owner would like to be able to **search** for particular business entries, **add** new business contacts and **remove** old contacts from their own system.

This tool should also provide the user with the ability to **e-mail** (1) **any** and (2) **all** of the contacts listed in the address book with details of upcoming sales or discount offers etc.

Assignment

Develop a "menu driven" shell program that will allow the user to interactively update (i.e. add, remove), search and list all their business contacts information, which is stored locally in a file called **BusinessDetails**.

The format of the "**BusinessDetails**" file should take the following format:

<Company Name> <Contact First and Last Name> <Postal Address> <Contact phone Number> <Email Address>
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Figure 1

Guidelines

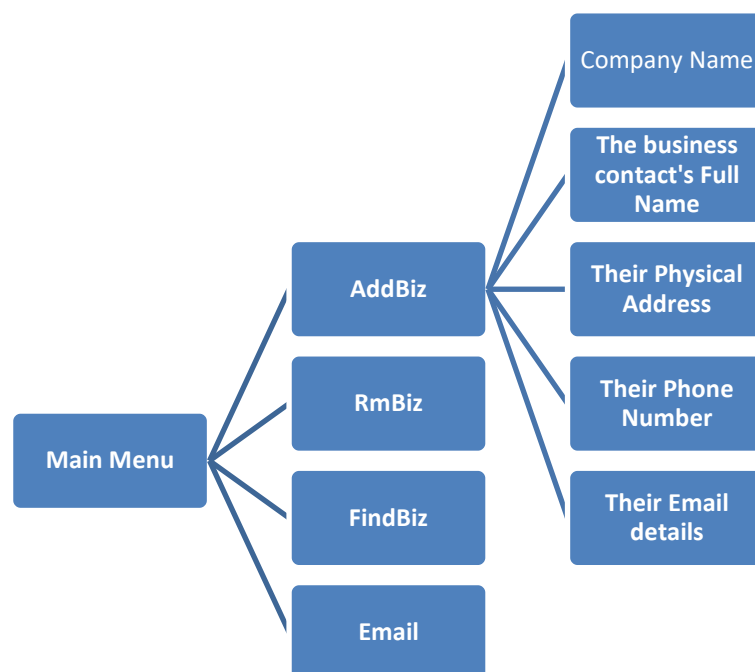
The following shell-programming assignment comprises of 4 separate functional components (separate shell programs).

1. The first script called **AddBiz**, should be a standalone script that will update the Address Book file with details of a new business

This script should take five command line arguments, as shown in Figure 1 above

2. The second script called **RmBiz** should remove all of a business's information from the "AddressBook" based on a particular businesses name or contact name.
3. The third script should allow the user to search for an existing business based upon any of that businesses information. Call this script **FindBiz**.
4. 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 as seen in Figure 2. This menu will allow the user to select from any of the previously mentioned shell scripts (i.e. **AddBiz**, **RmBiz** and **FindBiz**) and a fourth feature which will allow the user to e-mail any or all the companies listed in the Address Book.



Welcome. Please choose one of the following:

1. Add a new Business
2. Remove an existing Business
3. Search for a Business
4. E-mail Business(es)

Enter a Number:

Figure 2

You should also consider:

- Descriptive use of commenting in your files
- Good use of spacing and indentation in your files
- Clear, attractive and easy to follow output to the user
- Correct use of exit status
- Error checking: duplication of listings – is this OK or not? valid user menu choice; valid email address; is a user allowed enter blanks? if any details are duplicate in the address book, how can this be presented to the user to filter? Are search terms case insensitive?
- Can a user return to the main menu from any point?