

Embedded Linux Z2HV2

Assignment 1 - Bash

Simple Phone Book Script

Summary:

The goal of this Assignment is to practice the basics of Shell Scripting Usage and Capabilities.

Requirements:

Create a shell script that creates a phonebook on your system that contains a list of your contact names and numbers, with these features:

- Script can take options, e.g. "phonebook -v"
- When running the script without options, it will print the phonebook available options.
- Normally there is a ".phonebookDB.txt" which ur script creates to store the names and numbers.

Bonus1: make the database inside the script itself (meaning the script would edit itself while running), that would make your script highly portable.

Bonus2: a single name can have multiple phone numbers within the same database entry.

The available options are:

- Insert new contact name and number, with the option "-i"
- View all saved contacts details, with the option "-v"
- Search by contact name, with the option "-s"
- Delete all records, with "-e"
- Delete only one contact name, with "-d"

Common bugs you need to take care of:

- When moving the script from one folder to the other make sure your script points to a single location for the database file (think where should an application keep its data!?) **Hint:** /etc/phonebook
- Your script must check if a database file exist before trying to create a new one

Test Scenarios:

- I will normally try to make your script break or behave incorrectly so use defensive coding strategy to counter wrong user inputs
- The inputs will contain names with similarities (e.g. "ahmed ali", "ali ahmed", "Ali Ali" etc)(which to delete ?!)

How to deliver your work:

Create a Repository on your GitHub account and name it Embedded_Linux_Z2H

Create a folder within this repo called assignment_1_bash

Create your script in that folder and Name your script: phonebook.sh

Commit and push your changes to the repo

Export your script to .pdf format

Submit A link to your "Repository" and both files "phonebook.sh" and "phonebook.sh.pdf" to the Assignment on google Classroom