Birzeit University

Computer Science Department- Faculty of Engineering and Technology

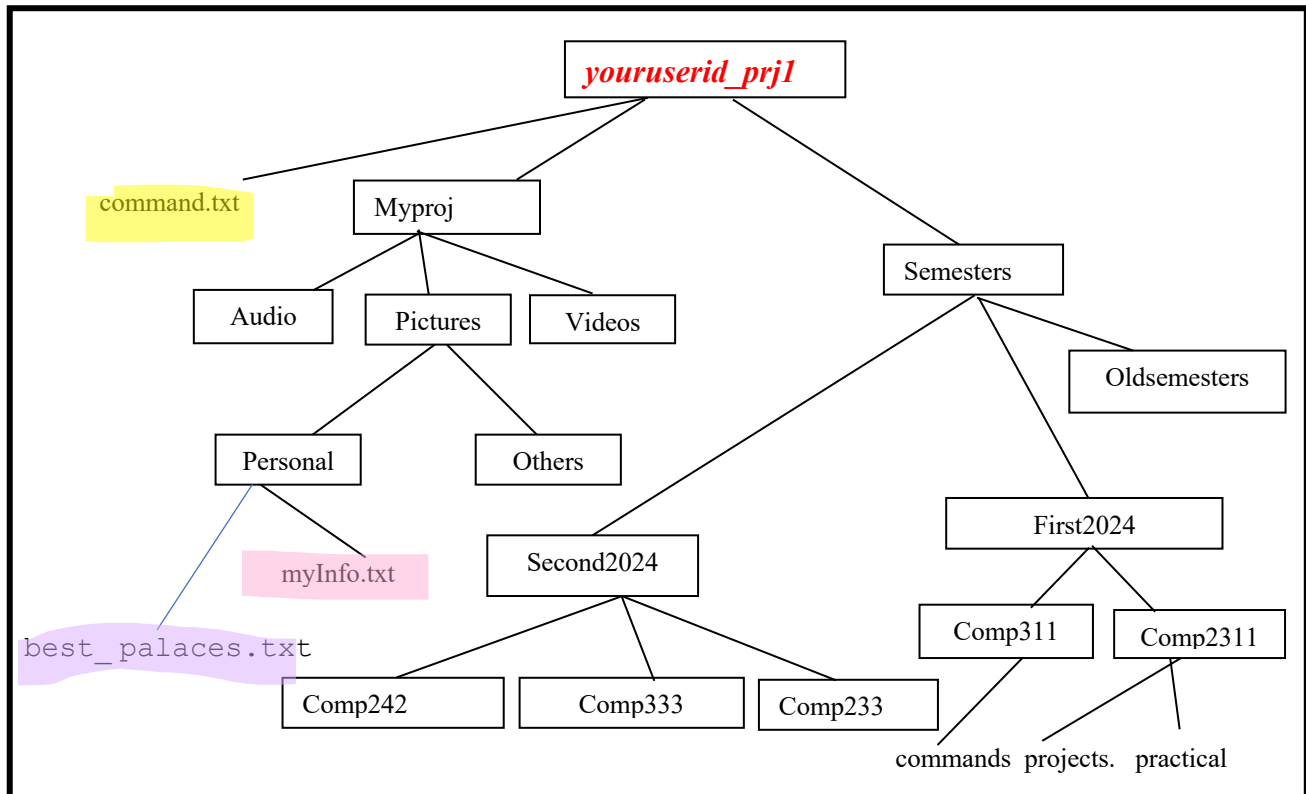Linux OS Lab - Comp 311

Due to: Saturday 6/4/2024, before 5:00 PM
Submission on Linux Server

Given the following tree:

Notes:

READ THE PROJECT CAREFULLY, line by line, and then answer the questions.

1. **Create a subdirectory on your machine under your home directory called youruserid_prj1 (e.g., u1220111_prj1).**
2. **Every created file _MUST CONTAIN YOUR NAME AND BE ON THE TOP OF THE FIRST PAGE_. (ALL files)**
3. **Under the directory (e.g., u1220111_prj1), create a "command.txt" file. This file is highlighted in yellow color. Your explanations, commands, and additional information must be written inside this file. This file contains all commands from 1-11)**
   (For example, Q#1.vi   . / *u1220111_prj1/favourites/pictures/personal/myinfo.txt*)

4. **All Boxes are directories, and the others are files.**

1. **Q#1:** Using relative paths (starting *from your home as the primary reference*) within your userid_prj1, construct a directory hierarchy precisely as shown in the figure (**do not use the cd command**).

   > *Create a "myInfo.txt" file under your project (the highlighted color is rose). (**DO NOT forget**, inside this file, at the top, write **your name, Student ID,** and write inside it all information about yourself (Your full name, current address, date of birth, major, hopes, resident place, ... at least write seven lines)*
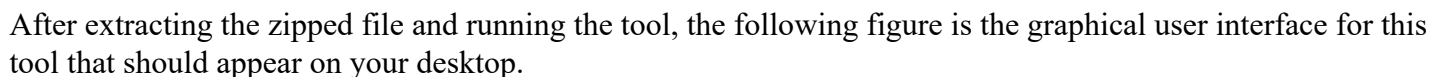
2. **Q#2:** Create two **macros**. One is **called B** in insert mode, which deletes the first four words in the 5th line. Another one in command mode, **called C**, copies the last three lines and pastes them above the 5th line. This macro should save the updates and exit.

3. **Q#3:** Create a link file (`linkmyInfo`) inside the `Second2024` directory linked to myInfo, which has already been created in **Q#1**. A directory link with the name(`Link_First2024`) inside the `Myproj` directory is linked to the `First2024 directory` and ***briefly explains the difference between the two commands that have been used in both links.* (Using relative links only, another solution is NOT accepted)**

4. **Q#4:** Use the vi editor to edit `best_ palaces.txt (lavender color),` then type about at least five places you have ever visited in Palestine. **Please write about your journeys, don't copy and paste them from the internet.** Save the changes.

5. **Q#5:** What commands could you use in **the command mode** to do the following:
   A. move to the end of the fifth line.
   B. move to the end of the last line.
   C. copy two lines followed by the 7th line.
   D. Delete two words after the word "color." Suppose you have the word "color" in the text file.
   E. Cut the first 3 words of the last line and put them at the end of the first line. (The number of lines is unknown).

6. **Q#6,** *with a one-line command*, copy all files in the directory `/etc.` with names starting with `'g'` or `'c,'` followed by any single character, followed by [a, b, c, e or h], and ending with any combination of characters.
   Hint: Use Google to search for the answer.

7. **Q#7:** Change the directory to your home, *then* copy all files inside Comp2311 to the `Oldsemesters` directory.

8. **Q#8: Form your home directory, create a file called html inside the Comp334 directory, and then try to delete the Comp333 directory** `using rmdir. Does it work?` Why? Explain *how to delete this directory.*

9. **Q#9:** Change the permission of directory `Comp242` to *the following permission (u:-wx, o:rw-, g:---)* *using the absolute mode method.*

10. **Q#10:** If you want to create a new file with default permission to rw-r-- -w-.
    List all possible masks *that should be used to get permission for this file:*

11. **Q#11:** Write a command to display when the permission of the "`myInfo.txt`" file was changed.

- Go to the directory one level above youruserid _prj1 (your home directory) and type the command.

    `tar -cvf youruserid_prj1.tar youruserid_prj1.`

    This command will create an archive (tar file) of the entire directory structure of youruserid _prj1.

- Turn in the file youruserid _prj1.tar by putting it in your home directory by the due date and time.

Download the Portable Version of the FileZilla Server from the following link. (*If you need more help, inquire from your teacher's assistant*)

https://filezilla-project.org/download.php?show_all=1

For example, if you have 64 windows, download, click on the link shown in the following figure, extract the file, and run the filezilla.exe.

After extracting the zipped file and running the tool, the following figure is the graphical user interface for this tool that should appear on your desktop.

Enter (host:172.16.2.90, username: your username, and password: your password, port:22)

Then, follow YouTube to connect to the server.

https://www.youtube.com/watch?v=COSdHb-uSPA

Please turn in your work youruserid_prj1 (for example, *u1200111_prj1*) from any computer science lab by putting it in your home directory by the due date and time. (**NOTE: Don't FORGET TO DELETE YOUR PROJECT FROM LAB's PC AFTER PUTTING IT IN LINUX SERVER**)

It would be best if you did all the work above wholly on your own. Working with anybody else in the class or others on any part of this project will result in a zero grade. **No projects will be accepted after the due date *and TIME for any reason.***

Postponing the project is NOT permitted!

تأجيل المشروع مرفوض لاي سبب كان