Computer Science Department- Faculty of Engineering and Technology
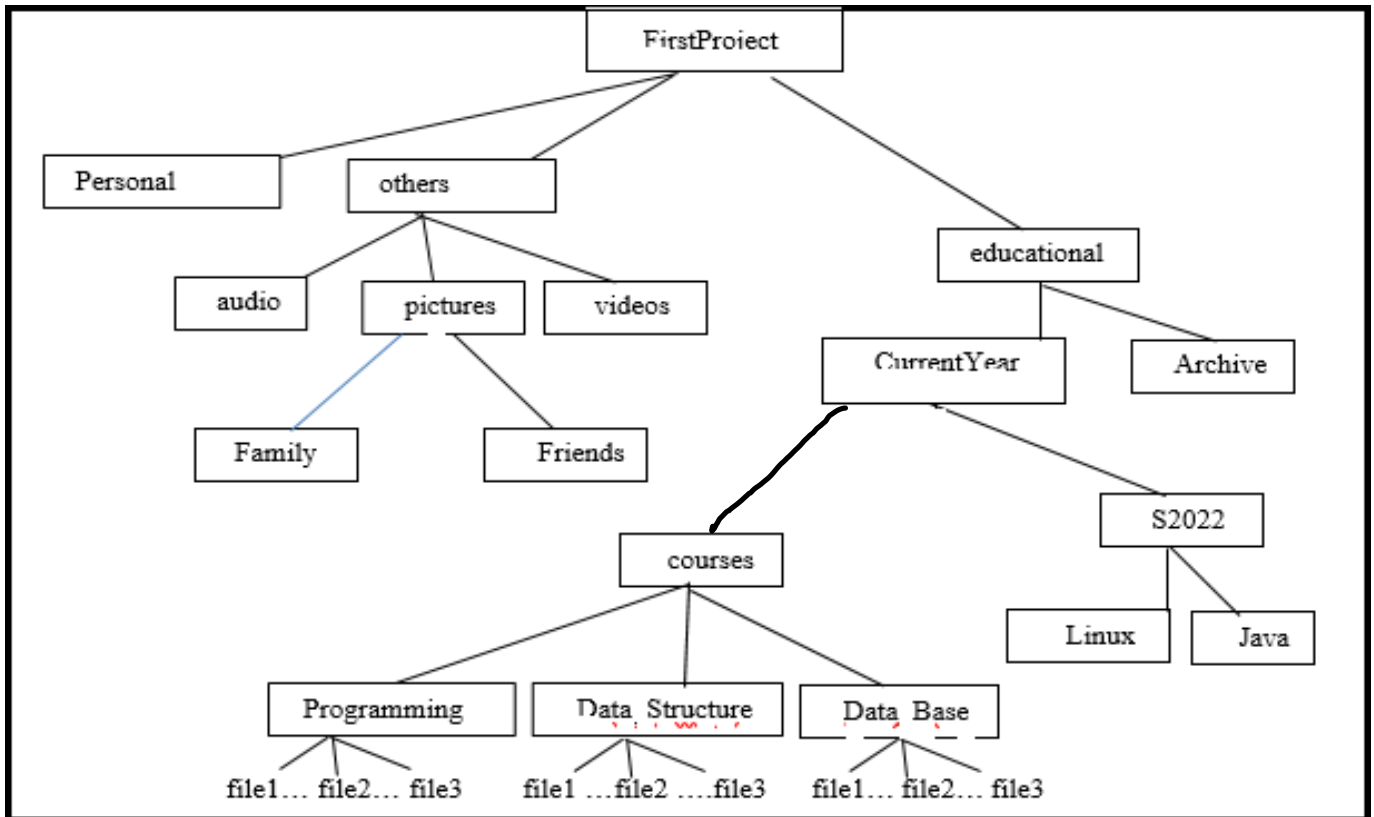
Linux OS Lab- Comp 311

Project 1: Due: Tuesday 26/04/2022 on Ritaj at 11:59 PM(Message called Project1Submission)

- Consider the following tree:

Every file you have to create, you should write your name and ID inside it.

On the Linux machine.Create a subdirectory under your home directory called `youruserid_prj1` (e.g. `u10111_prj1`).

Using absolute path concepts, within youruserid `prj1`, create a directory hierarchy exactly in the order shown above called *FirstProject* (**do not use cd command**)

1. **Command #1:** Create file under directory (`S2022`) inside `Linux` course called it `command`. (DO NOT forget, inside this file at the top write **your name, ID** and write down all commands for this project within this file with number of commands and beside it write the command itself , i.e. `Command#1.cp file1 file2`)

2. Inside `personal`directory, create file `pInfo.txt` and write inside it all information about yourself (full name, ID, Date of birth, your major, ID, hopes, resident place, ...)
3. Create two **macros**, one is <u>called S</u> in insert mode which is used for save and quit file. Another one in command mode <u>call it C</u> which function is to copy last 3 lines and paste them at the beginning of the file.
4. Create linked file (`lfile`) inside `personal` directory, which is linked to `command` file, which is created later. Moreover, another link of directory `Family` to directory `S2022`, and briefly explain the difference between two commands you used later.
5. **<u>Command #2</u>** Create an empty file inside the `programming` directory named `favourite_programming.txt` Use your vi editor to edit `favourite_programming.txt`, then type in the programming language you like most. Save the changes and exit
6. **<u>Command #3</u>** write 5 different umask commands to get the permission **r---w-r--** on file1 in Data Structure directory.
7. **<u>Command#4:</u>** Go to `CurrentYear` directory, copy file `c4file.txt` from `Family` directory to your current position (i.e. `CurrentYear` directory) .
8. **<u>Command#5:</u>** Rename file you copied in step 9. With new name (`new_c4file.txt`)
9. **<u>Command#6:</u>** Create file called diff inside Java directory and then try to delete directory Java and explain why you used this command not others.
10. **<u>Command#7:</u>** Go to your home directory, list your project content with option all information as tree
11. **<u>Command#8:</u>** Write command to display the date of last time file (`new_c4file.txt`) accessed.
12. **<u>Command#9:</u>** Change the permission of directory `courses` to (366).

- 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 sending this file on Ritaj as a reply message to a message called Project1Submission.

<u>You should do all the work above completely on your own</u>. Working with anybody else in class or others on any part of this project will result in a zero grade.

<u>No projects will be accepted after the due date</u> ***and TIME for any reason***