Final Project
Github Portfolio

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Course Code and Title: CPE201A - Computer System Administration and Troubleshooting	**Instructor: Engr. Lloyd Pornobi**

1. Objective/s:

This final project aims to demonstrate the student's ability to create and build a GitHub portfolio by compiling and organizing outputs from other Computer Engineering courses.

2. Intended Leaning Outcome/s:

By the end of this final project, the students should be able to:
- Develop a professional GitHub portfolio that effectively showcases their projects and demonstrates integration of knowledge from various Computer Engineering courses.

3. Directions:

1. **Create a New Repository**
   - Log in to your GitHub account.
   - Click New Repository.
   - Set the repository title as:
        CPE201A_FP_SURNAME
   - Add a short description, for example: "Final Projects Compilation for CpE Courses."
   - Choose the repository visibility (Public or Private).
   - Click Create Repository.

2. **Prepare Files on Ubuntu Linux**
   - Open your Ubuntu terminal.
   - Navigate to the directory where your final projects are saved.
        cd ~/Documents/CpE_Projects
   - Organize your project folders according to different CpE courses, for example:
        CPE201A_FP_SURNAME/
        ├── CPE101/
        ├── CPE102/
        ├── CPE103/
        └── CPE104/
   - Make sure each folder contains the corresponding final project files from that course.

3. **Initialize Git and Push to GitHub**
4. **Verify and Share**
    ● Go to your GitHub repository online and confirm that all files and folders are properly uploaded and organized.
    ● Copy your repository link and make sure it is accessible (if required, set repository visibility to "Public").
5. **Documentation**
    ● Take screenshots of the following:
        ○ Repository creation page.
        ○ Organized folder structure.
        ○ Ubuntu terminal commands during initialization, commit, and push.
        ○ Final GitHub repository page showing the uploaded projects.
    ● Compile all screenshots and input it in Section 4. Outputs.

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4. Outputs:

PROCESS SCREENSHOTS/TERMINAL COMMANDS:

```
csatmendozaroy@Ubuntu:~$ CD ~
CD: command not found
csatmendozaroy@Ubuntu:~$ cd ~
csatmendozaroy@Ubuntu:~$ mdkir CPE201A_FP_MENDOZA
Command 'mdkir' not found, did you mean:
  command 'mdir' from deb mtools (4.0.43-1)
  command 'mkdir' from deb coreutils (9.4-3ubuntu6.1)
Try: sudo apt install <deb name>
csatmendozaroy@Ubuntu:~$ mkdir CPE201A_FP_MENDOZA
csatmendozaroy@Ubuntu:~$ cd CPE201A_FP_MENDOZA
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ mkdir CPE007 CPE201A NSTP001 PE001
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ apts install tree
Command 'apts' not found, did you mean:
  command 'pts' from deb openafs-client (1.8.10-2.1ubuntu3.4)
  command 'aptd' from deb aptdaemon (1.1.1+bzr982-0ubuntu44)
  command 'apbs' from deb apbs (3.4.1-5build4)
  command 'apt' from deb apt (2.8.3)
  command 'apxs' from deb apache2-dev (2.4.58-1ubuntu8.8)
Try: sudo apt install <deb name>
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ sudo apt install tree
[sudo] password for csatmendozaroy:
Reading package lists... Done
Building dependency tree... Done
```

```
 tree
0 upgraded, 1 newly installed, 0 to remove and 80 not upgraded.
Need to get 47.1 kB of archives.
After this operation, 111 kB of additional disk space will be used.
Get:1 http://ph.archive.ubuntu.com/ubuntu noble/universe amd64 tree amd64 2.1.1-2ubuntu3 [4
7.1 kB]
Fetched 47.1 kB in 2s (27.3 kB/s)
Selecting previously unselected package tree.
(Reading database ... 215205 files and directories currently installed.)
Preparing to unpack .../tree_2.1.1-2ubuntu3_amd64.deb ...
Unpacking tree (2.1.1-2ubuntu3) ...
Setting up tree (2.1.1-2ubuntu3) ...
Processing triggers for man-db (2.12.0-4build2) ...
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ tree

— CPE007
— CPE201A
— NSTP001
— PE001

5 directories, 0 files
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ []
```

```
hint:    git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:    git branch -m <name>
Initialized empty Git repository in /home/csatmendozaroy/CPE201A_FP_MENDOZA/.git/
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ git add .
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ git commit -m "Initial porfolio commit for CPE
courses"
[master (root-commit) f2f6d5d] Initial porfolio commit for CPE courses
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 CPE007/DOCUMENTATION of PLD FINALS PROJECT.pdf
 create mode 100644 NSTP001/IMG_20251113_145911.jpg
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ git remote add origin
usage: git remote add [<options>] <name> <url>

    -f, --[no-]fetch        fetch the remote branches
    --[no-]tags             import all tags and associated objects when fetching
                            or do not fetch any tag at all (--no-tags)
    -t, --[no-]track <branch>
                            branch(es) to track
```

```
     --[no-]mirror[=(push|fetch)]
                         set up remote as a mirror to push to or fetch from

csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ git commit add origin git@github.com:MendozaRoy
cpe/CPE201A_FP_MendozaRoy.git
error: pathspec 'add' did not match any file(s) known to git
error: pathspec 'origin' did not match any file(s) known to git
error: pathspec 'git@github.com:MendozaRoycpe/CPE201A_FP_MendozaRoy.git' did not match any
file(s) known to git
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ gir remote add origin git@github.com:MendozaRoy
cpe/CPE201A_FP_MendozaRoy.git
Command 'gir' not found, but can be installed with:
sudo apt install gir-rust-code-generator
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ git remote add origin git@github.com:MendozaRoy
cpe/CPE201A_FP_MendozaRoy.git
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ git branch -M main
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ gut push -u origin main
Command 'gut' not found, did you mean:
  command 'gum' from snap gum (0.13.0)
  command 'hut' from deb hut (0.4.0-1ubuntu0.3)
  command 'gout' from deb scotch (7.0.4-1)
  command 'nut' from deb nutsqlite (2.0.6-4)
  command 'lut' from deb trocotuner (3.0.6 beta dfsg 3)
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ git pull origin main
Enter passphrase for key '/home/csatmendozaroy/.ssh/id_ed25519':
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 919 bytes | 919.00 KiB/s, done.
From github.com:MendozaRoycpe/CPE201A_FP_MendozaRoy
 * branch            main         -> FETCH_HEAD
 * [new branch]      main         -> origin/main
hint: You have divergent branches and need to specify how to reconcile them.
hint: You can do so by running one of the following commands sometime before
hint: your next pull:
hint:
hint:   git config pull.rebase false  # merge
hint:   git config pull.rebase true   # rebase
hint:   git config pull.ff only       # fast-forward only
hint:
hint: You can replace "git config" with "git config --global" to set a default
hint: preference for all repositories. You can also pass --rebase, --no-rebase,
hint: or --ff-only on the command line to override the configured default per
hint: invocation
```

```
hint: preference for all repositories. You can also pass --rebase, --no-rebase,
hint: or --ff-only on the command line to override the configured default per
hint: invocation.
fatal: Need to specify how to reconcile divergent branches.
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ git config pull.rebase true
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ git pull origin main
Enter passphrase for key '/home/csatmendozaroy/.ssh/id_ed25519':
From github.com:MendozaRoycpe/CPE201A_FP_MendozaRoy
 * branch            main        -> FETCH_HEAD
Successfully rebased and updated refs/heads/main.
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ git push -u origin main
Enter passphrase for key '/home/csatmendozaroy/.ssh/id_ed25519':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 2 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 3.93 MiB | 1.77 MiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:MendozaRoycpe/CPE201A_FP_MendozaRoy.git
   893d54f..9c85a65  main -> main
branch 'main' set up to track 'origin/main'.
csatmendozaroy@Ubuntu:~/CPE201A_FP_MENDOZA$ ▯
```

DOCUMENTATION ITSELF:
REPOSITORY CREATION PAGE:

- A Public profile
- ⚙ Account
- ⌒ Appearance
- ⼤ Accessibility
- ⌕ Notifications

Access

- ▭ Billing and licensing   ⌄
- ✉ Emails
- ⊘ Password and authentication
- ⦿ Sessions
- ⚿ SSH and GPG keys
- ▤ Organizations
- ⊕ Enterprises
- ⊡ Moderation   ⌄

Code, planning, and automation

- ▯ **Repositories**
- ▭ Codespaces

Repository default branch

Choose the default branch for your new personal repositories. You might want to change the default name due to different workflows, or because your integrations still require "master" as the default branch name. You can always change the default branch name on individual repositories. Learn more about default branches.

| main | | Update |

Repositories

| ▯ **Repositories**   🗑 Deleted repositories |

MendozaRoycpe

▯ MendozaRoycpe/CPE201A_FP_MendozaRoy 0 Bytes 👥 0 collaborators

▯ MendozaRoycpe/CPE201A_MendozaRoy 1 KB 👥 0 collaborators

ORGANIZED FOLDER STRUCTURE:

FINAL GITHUB REPOSITORY PAGE:

ゞ main ▾   **CPE201A_FP_MendozaRoy** / **CPE007** /   ⧉   🔍 Go to file   [t]   Add file ▾   ...
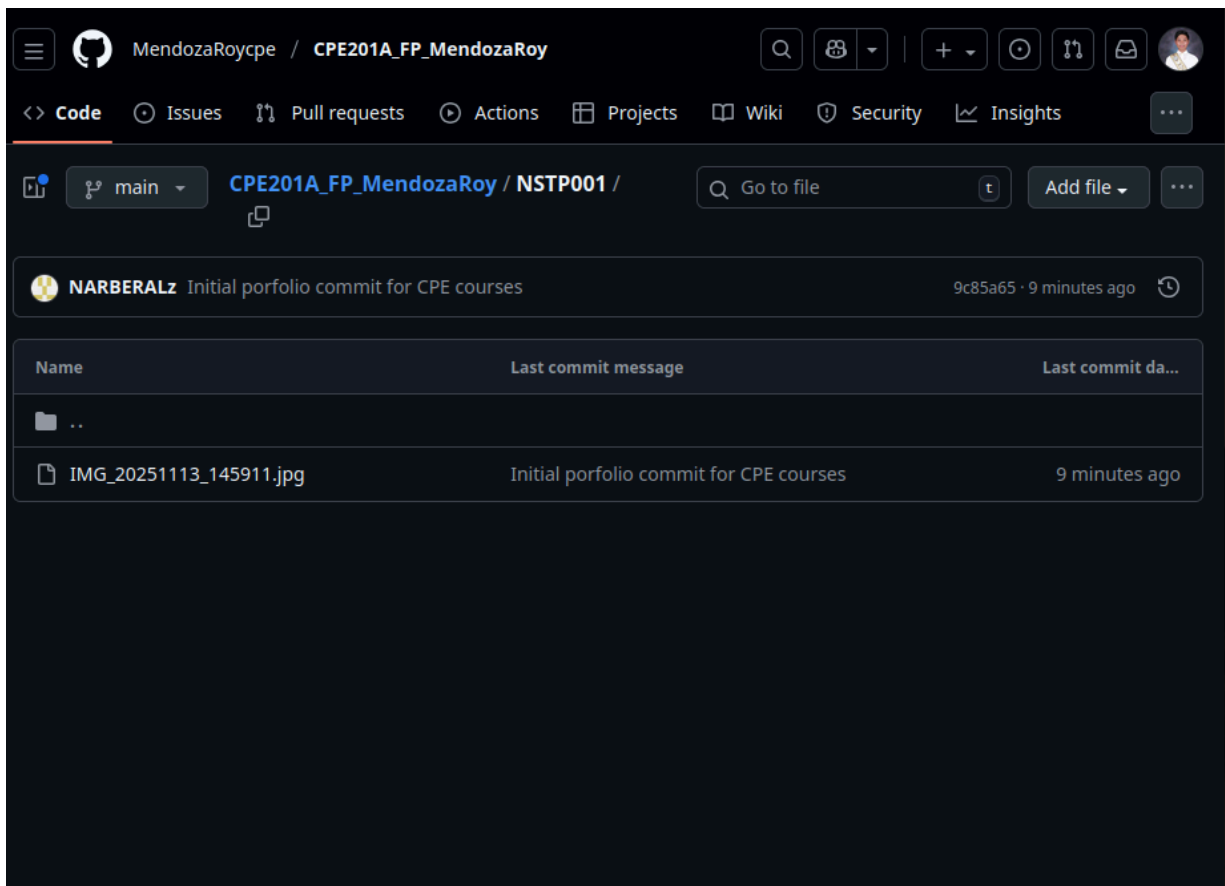
👤 **NARBERALz** Initial porfolio commit for CPE courses   9c85a65 · 5 minutes ago   ⟲

Name	Last commit message	Last commit da...
📁 ..		
📄 DOCUMENTATION of PLD FINALS PROJECT....	Initial porfolio commit for CPE courses	5 minutes ago

<><>NOTE<><>:
The activities in csat(which is this) and pathfit(currently being edited) will be put later after it is done.

5. Conclusion/Learnings/Analysis:

For some reason, my ssh key is not working and I forgot my passphrase so I did repeat the activity 14, ssh-keygen to make sure that I got the key right. This activity is very easy for some reason, unless you forget your passphrase, as I only need to put the files inside of the folders in my computer and push it to the github. As for my key learnings, git is not only for tracking code changes, but also for organizing and compiling sets of work from different courses(which is applied here).

6. Assessment Rubric:

Rubric for SO 7 (7)　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　✎ 🔍 🗑

Criteria	Ratings						Pts
⊛ SO 7 PI 1 **Student Outcome 7.1** Acquire and apply new knowledge from outside sources. threshold: 4.8 pts	6 pts Excellent | Educational interests and pursuits exist and flourish outside classroom requirements,knowledge and/or experiences are pursued independently and applies knowledge learned into practice	5 pts Good | Educational interests and pursuits exist and flourish outside classroom requirements,knowledge and/or experiences are pursued independently	4 pts Satisfactory | Look beyond classroom requirements, showing interest in pursuing knowledge independently	3 pts Unsatisfactory | Begins to look beyond classroom requirements, showing interest in pursuing knowledge independently	2 pts Poor | Relies on classroom instruction only	1 pts Very Poor | No initiative or interest in acquiring new knowledge	6 pts
⊛ SO 7 PI 3 **Student Outcome 7.3** Critical thinking in the broadest context of technological change threshold: 4.8 pts	6 pts Excellent | Synthesizes and integrates information from a variety of sources; formulates a clear and precise perspective; draws appropriate conclusions	5 pts Good | Evaluate information from a variety of sources; formulates a clear and precise perspective.	4 pts Satisfactory | Analyze information from a variety of sources; formulates a clear and precise perspective.	3 pts Unsatisfactory | Apply the gathered information to formulate the problem	2 pts Poor | Gather and summarized the information from a variety of sources but failed to formulate the problem	1 pts Very Poor | Gather information from a variety of sources	6 pts
⊛ SO 7 PI 4 **Student Outcome 7.4** Creativity and adaptability to new and emerging technologies threshold: 4.8 pts	6 pts Excellent | Ideas are combined in original and creative ways in line with the new and emerging technology trends to solve a problem or address an issue.	5 pts Good | Ideas are creative and adapt the new knowledge to solve a problem or address an issue	4 pts Satisfactory | Ideas are creative in solving a problem, or address an issue	3 pts Unsatisfactory | Shows some creative ways to solve the problem	2 pts Poor | Shows initiative and attempt to develop creative ideas to solve the problem	1 pts Very Poor | Ideas are copied or restated from the sources consulted	6 pts

Total Points: 18