Final Project
Github Portfolio

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Course Code and Title: CPE201A - Computer System Administration and Troubleshooting	**Instructor:** Mr. 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:

1.

2.

```
dawae@dawae:~$ cd Documents
dawae@dawae:~/Documents$ mkdir CpE_Projects
dawae@dawae:~/Documents$ cd CpE_Projects
dawae@dawae:~/Documents/CpE_Projects$ mkdir CPE201A_FP_ARIDIDON
dawae@dawae:~/Documents/CpE_Projects$ cd CPE201A_FP_ARIDIDON
dawae@dawae:~/Documents/CpE_Projects/CPE201A_FP_ARIDIDON$ mkdir CPE101 CPE102 CP
E103 CPE104
dawae@dawae:~/Documents/CpE_Projects/CPE201A_FP_ARIDIDON$ ls
CPE101  CPE102  CPE103  CPE104
dawae@dawae:~/Documents/CpE_Projects/CPE201A_FP_ARIDIDON$
```

```
dawae@dawae:~$ tree
.
├── CPE201A_ARIDIDON
│   └── README.md
├── Desktop
├── Documents
│   └── CpE_Projects
│       └── CPE201A_FP_ARIDIDON
│           ├── CPE101
│           │   └── README.md
│           ├── CPE102
│           │   └── README.md
│           ├── CPE103
│           │   └── README.md
│           ├── CPE104
│           │   └── README.md
```

```
dawae@dawae:~/Documents/CpE_Projects/CPE201A_FP_ARIDIDON$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
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/dawae/Documents/CpE_Projects/CPE201A_FP_ARIDIDON/.git/
```

```
dawae@dawae:~/Documents/CpE_Projects/CPE201A_FP_ARIDIDON$ echo "# CPE101 Final Project" > CPE101/READM
E.md
echo "# CPE102 Final Project" > CPE102/README.md
echo "# CPE103 Final Project" > CPE103/README.md
echo "# CPE104 Final Project" > CPE104/README.md
dawae@dawae:~/Documents/CpE_Projects/CPE201A_FP_ARIDIDON$ git add .
dawae@dawae:~/Documents/CpE_Projects/CPE201A_FP_ARIDIDON$ git commit -m "Set up project structure"
[master (root-commit) e6d2789] Set up project structure
 4 files changed, 4 insertions(+)
 create mode 100644 CPE101/README.md
 create mode 100644 CPE102/README.md
 create mode 100644 CPE103/README.md
 create mode 100644 CPE104/README.md
dawae@dawae:~/Documents/CpE_Projects/CPE201A_FP_ARIDIDON$ git remote add origin https://github.com/Ari
didoncpe/CPE201A_FP_ARIDIDON.git
```

```
dawae@dawae:~/Documents/CpE_Projects/CPE201A_FP_ARIDIDON$ git branch -M main
dawae@dawae:~/Documents/CpE_Projects/CPE201A_FP_ARIDIDON$ git push origin main --force
Username for 'https://github.com': Arididoncpe
Password for 'https://Arididoncpe@github.com':
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (10/10), 617 bytes | 617.00 KiB/s, done.
Total 10 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Arididoncpe/CPE201A_FP_ARIDIDON.git
 + badc8b8...e6d2789 main -> main (forced update)
```

CPE201A_FP_ARIDIDON (Public)

📌 Pin   👁 Watch 0

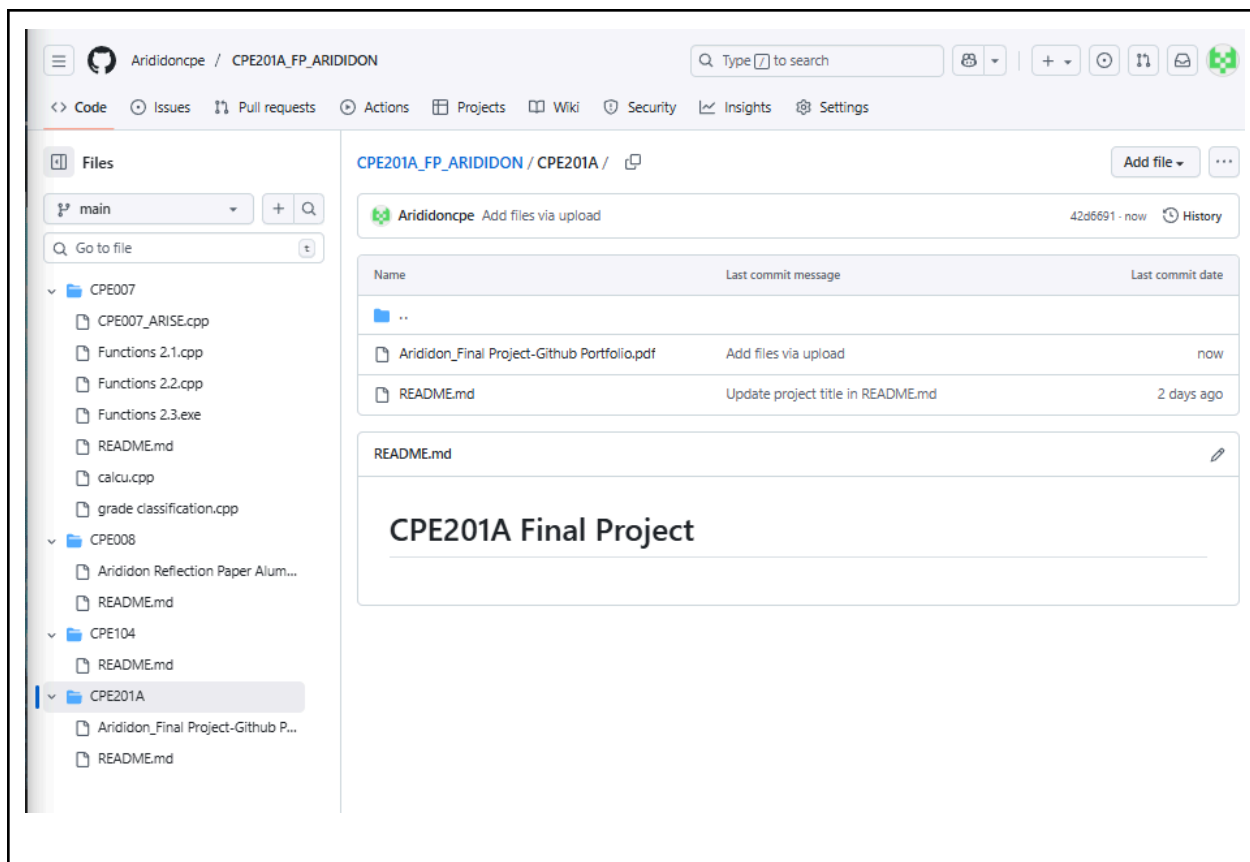⌐ main ▾   ⌐ 1 Branch   ◇ 0 Tags   🔍 Go to file   t   Add file ▾   <> Code ▾

🟢 Arididoncpe Set up project structure		e6d2789 · 28 minutes ago	🕐 1 Commit
📁 CPE101	Set up project structure		28 minutes ago
📁 CPE102	Set up project structure		28 minutes ago
📁 CPE103	Set up project structure		28 minutes ago
📁 CPE104	Set up project structure		28 minutes ago

5. Conclusion/Learnings/Analysis:

In this activity, I created a GitHub repository named CPE201A_FP_ARIDIDON and added final project files for each project folder corresponding to different CpE courses. The repository structure has been organized for other projects in the future. This process helped me practice creating repositories, initializing folders, and understanding GitHub organization, preparing me for future tasks involving version control and project management.

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