

Group Assignment COMP 3104 – DevOps

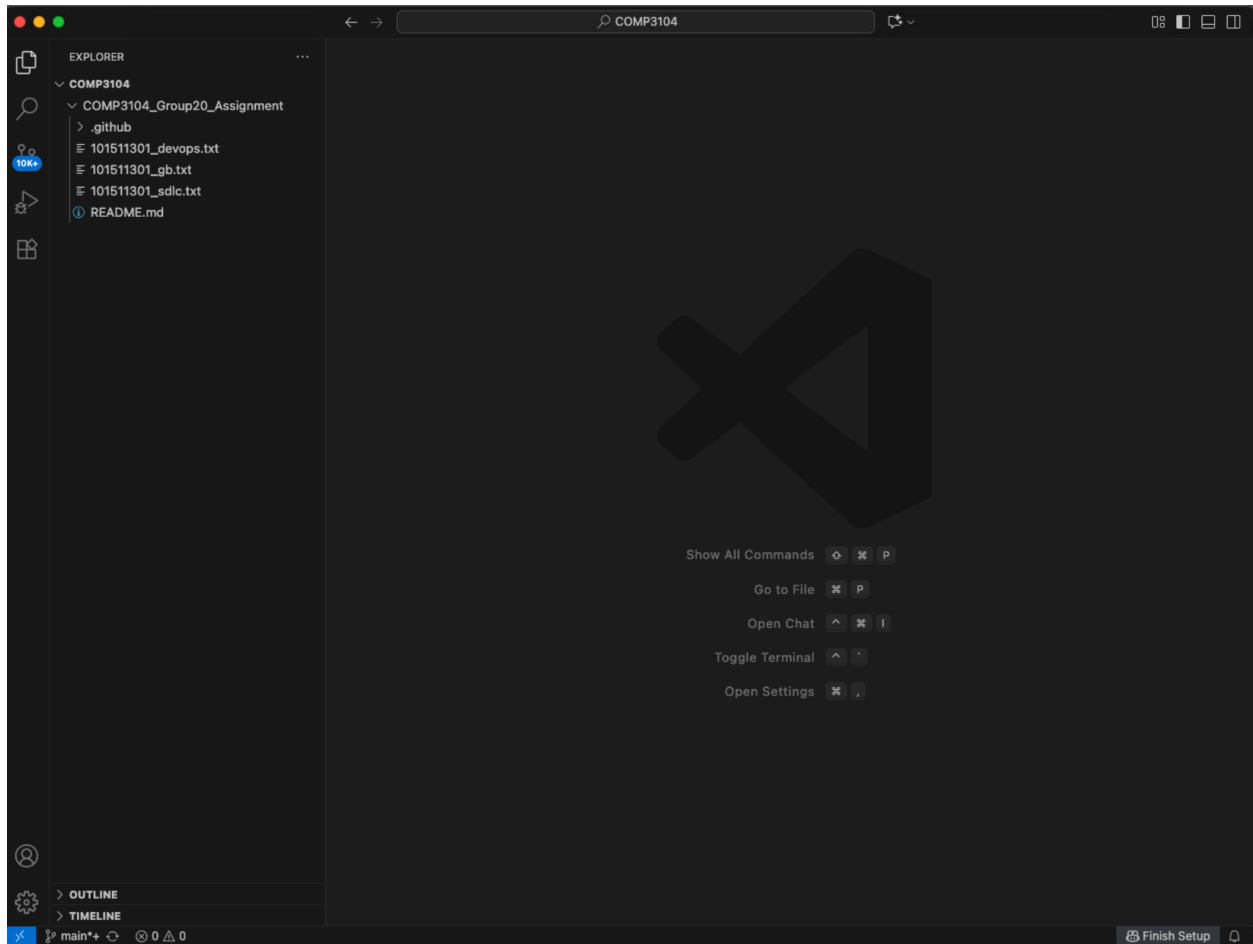
Name: Jen Henry

Student ID: 101511301

Repository Link:

https://github.com/Jen-ai87/COMP3104_Group20_Assignment.git

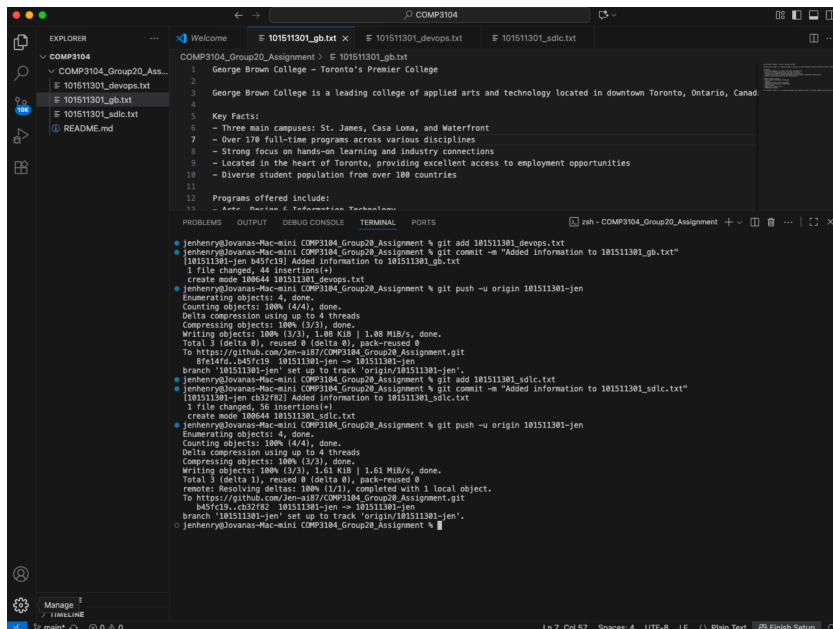
Local GitHub Repository Setup:



Screenshots of GitHub Commits:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  zsh - COMP3104_Group20_Assignment

● jhenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git checkout 101511301-jen
Already on '101511301-jen'
Your branch is up to date with 'origin/101511301-jen'.
● jhenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git add 101511301_gb.txt
● jhenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git commit -m "Added 101511301_gb.txt"
[101511301-jen 8fe14fd] Added 101511301_gb.txt
1 file changed, 21 insertions(+)
create mode 100644 101511301_gb.txt
● jhenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git push -u origin 101511301-jen
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 939 bytes | 939.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Jen-ai87/COMP3104_Group20_Assignment.git
   ace3300..8fe14fd 101511301-jen -> 101511301-jen
branch '101511301-jen' set up to track 'origin/101511301-jen'.
```



The screenshot shows the VS Code editor interface. The Explorer sidebar on the left displays the file structure for 'COMP3104', including 'COMP3104_Group20_Assignment' and its sub-files: '101511301_devops.txt', '101511301_gb.txt', '101511301_sdlc.txt', and 'README.md'. The main editor area shows the content of 'README.md', which includes sections for 'Group Members', 'Project Description', 'Setup Instructions', 'CI/CD Pipeline', and 'Branching Strategy'. The terminal window at the bottom shows the execution of several Git commands: 'git add README.md', 'git commit -m "Updated README.md"', and 'git push -u origin 101511301-jen'. The terminal output shows the progress of these operations, including object counting, compression, and pushing to the remote repository.

```
COMP3104_Group20_Assignment > 1 README.md > 2 COMP3104_Group20_Assignment > 3 ## Setup Instructions
1  ## COMP3104_Group20_Assignment
2
3  ## Group Members
4  - **Leader:** Pritesh Patel (1023756) - [GitHub](https://github.com/priteshpatel)
5  - **Member 1:** Jen Henry (101511301) - [GitHub](https://github.com/jen-a187)
6  - **Member 2:** John Smith (1027890) - [GitHub](https://github.com/johnsmith)
7  - **Member 3:** John Smith (1027890) - [GitHub](https://github.com/johnsmith)
8  - **Member 4:** John Smith (1027890) - [GitHub](https://github.com/johnsmith)
9
10 ## Project Description
11 This repository hosts the group assignment for COMP3104 DevOps course, focusing on collaborative Git workflows,
12 branching strategies, and CI/CD integration.
13
14 ## Setup Instructions
15 1. Clone the repository.
16 2. Switch to your branch using 'git checkout STUDENTID-Name'.
17 3. Install any dependencies as listed.
18
19 ## CI/CD Pipeline
20 The project utilizes GitHub Actions for continuous integration. The workflow is defined in '.github/workflows/ci.
21 yml'.
22
23 ## Branching Strategy
24 Each member has their own branch named 'STUDENTID-Name'. All changes are merged into the 'main' branch via Pull
25 Requests.
```

```
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git add README.md
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git commit -m "Updated README.md"
101511301-jen f402955! Updated README.md
1 file changed, 22 insertions(+), 1 deletion(-)
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git push -u origin 101511301-jen
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 783 bytes | 783.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Jen-a187/COMP3104_Group20_Assignment.git
cb32f62..f402955 101511301-jen -> 101511301-jen
branch '101511301-jen' set up to track 'origin/101511301-jen'.
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment %
```

The screenshot shows the VS Code editor interface. The Explorer sidebar on the left displays the file structure for 'COMP3104', including 'COMP3104_Group20_Assignment' and its sub-files: '.github', '101511301_devops.txt', '101511301_gb.txt', '101511301_sdlc.txt', and 'README.md'. The main editor area is currently blank, displaying a large, faint GitHub logo watermark. The terminal window at the bottom shows the execution of several Git commands: 'git clear', 'git merge 101511301-jen', and 'git push origin main'. The terminal output shows the progress of these operations, including object counting, compression, and pushing to the remote repository. A merge conflict is resolved, and the branch is pushed to the remote.

```
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git clear
[main 95b388d] Merge branch 101511301-jen into main
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 297 bytes | 297.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Jen-a187/COMP3104_Group20_Assignment.git
f855ac0..95b388d main -> main
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment %
```

EXPLORER

- COMP3104
 - COMP3104_Group20_Ass...
 - .github
 - 101511301_devops.txt
 - 101511301_gb.txt

Run and Debug (⇧⌘D)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git checkout 101511301-jen
Switched to branch '101511301-jen'
Your branch is up to date with 'origin/101511301-jen'.
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git pull origin main
From https://github.com/Jen-a187/COMP3104_Group20_Assignment
+ branch
main
Updating f4d2955..95b388d
Fast-forward
+github/workflows/ci.yml | 18 ++++++
1 file changed, 18 insertions(+)
create mode 100644 .github/workflows/ci.yml
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git fetch origin
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git merge origin/main
Already up to date.
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment %
```

EXPLORER

- COMP3104
 - COMP3104_Group20_Assignment
 - .github
 - workflows
 - ci.yml
 - PULL_REQUEST_TEMPLATE.md
 - 101511301_devops.txt
 - 101511301_gb.txt
 - 101511301_sdlc.txt
 - README.md

PULL_REQUEST_TEMPLATE.md

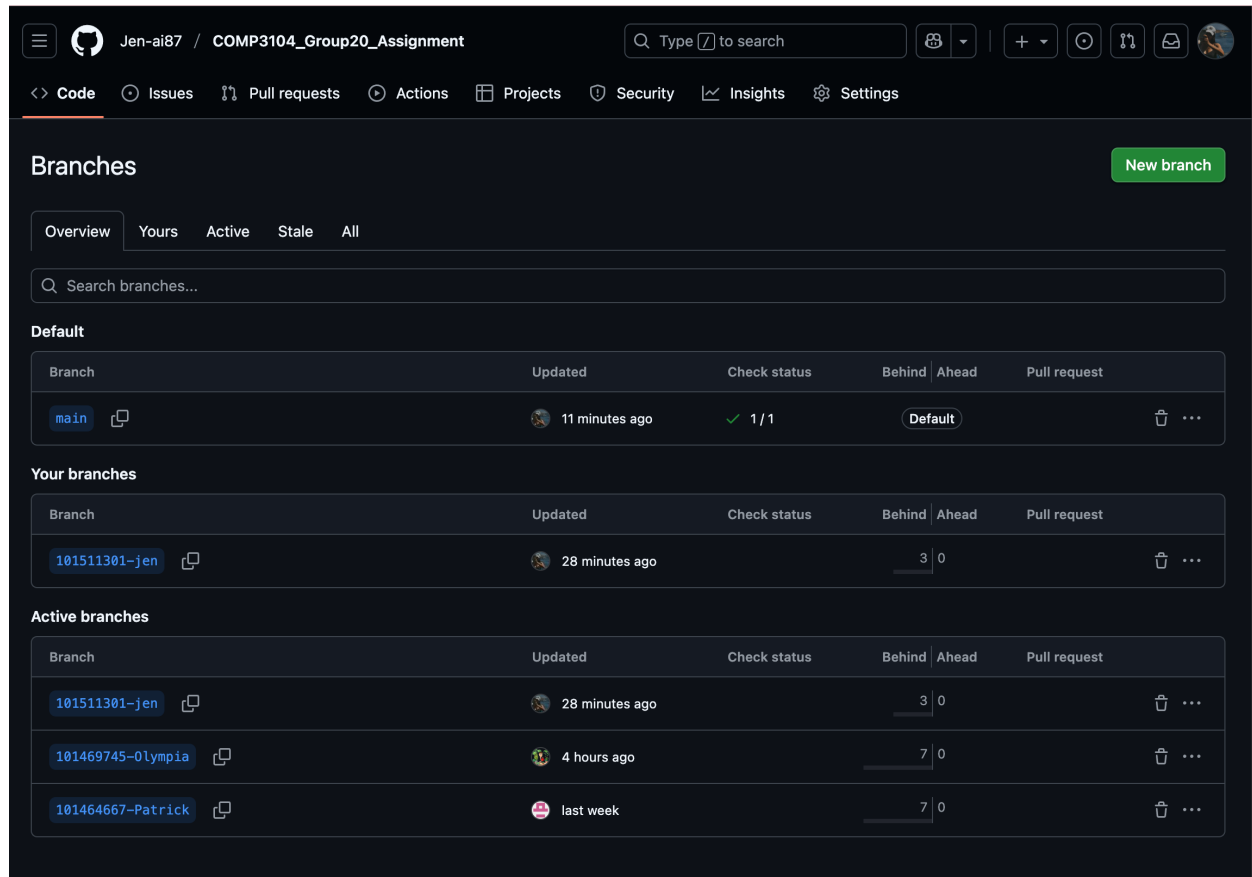
```
COMP3104_Group20_Assignment > .github > PULL_REQUEST_TEMPLATE.md > ## Type of Change
1 ## Description
2
3
4 ## Type of Change
5 - [ ] Bug fix
6 - [ ] New feature
7 - [ ] Documentation update
8
9 ## Checklist
10 - [ ] My code follows the style guidelines of this project
11 - [ ] I have performed a self-review of my code
12 - [ ] I have commented my code, particularly in hard-to-understand areas
13 - [ ] I have made corresponding changes to the documentation
14 - [ ] My changes generate no new warnings
15 - [ ] I have added tests that prove my fix is effective or that my feature works
16 - [ ] New and existing unit tests pass locally with my changes
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git add .github/PULL_REQUEST_TEMPLATE.md
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git commit -m "Add Pull Request template"
[main f7d00c4] Add Pull Request template
1 file changed, 16 insertions(+)
create mode 100644 .github/PULL_REQUEST_TEMPLATE.md
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment % git push origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 702 bytes | 702.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Jen-a187/COMP3104_Group20_Assignment.git
95b388d..f7d00c4 main -> main
jenhenry@Jovanas-Mac-mini COMP3104_Group20_Assignment %
```

Ln 6, Col 18 Spaces: 4 UTF-8 LF Markdown Finish Setup

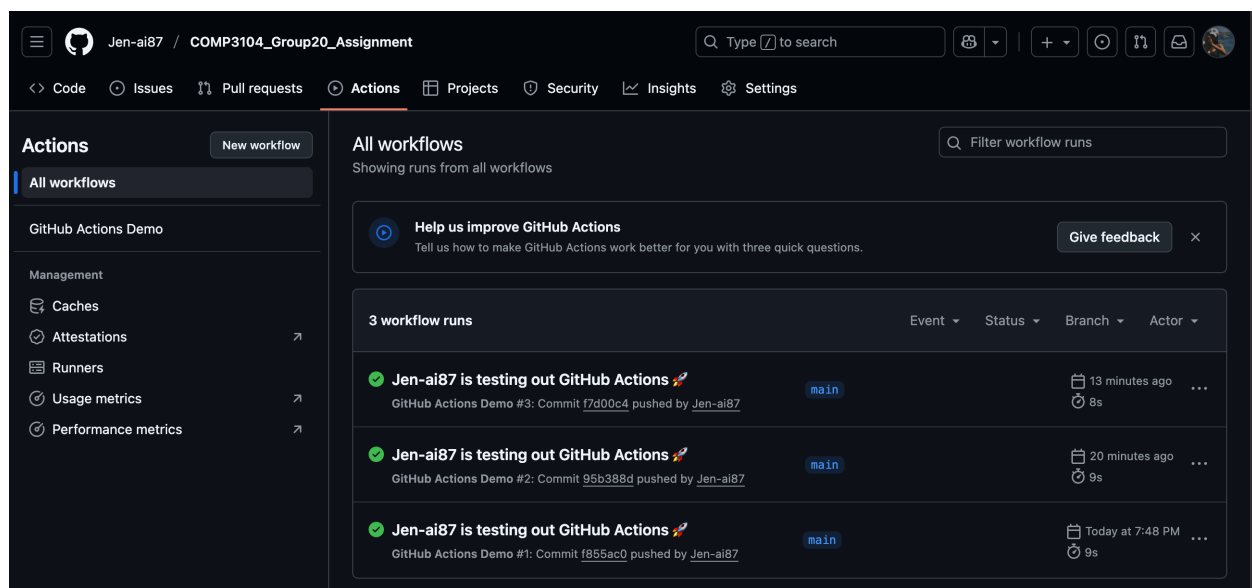
Branch Structure:



The screenshot shows the GitHub interface for the repository 'Jen-ai87 / COMP3104_Group20_Assignment'. The 'Branches' tab is selected, displaying a list of branches. The 'main' branch is the default. Two other branches, '101511301-jen' and '101469745-Olympia', are shown as 'Your branches' and 'Active branches'.

Branch	Updated	Check status	Behind	Ahead	Pull request
main	11 minutes ago	✓ 1/1			Default
101511301-jen	28 minutes ago		3	0	
101469745-Olympia	4 hours ago		7	0	
101464667-Patrick	last week		7	0	

CI Pipeline Status:



The screenshot shows the GitHub Actions interface for the repository 'Jen-ai87 / COMP3104_Group20_Assignment'. The 'Actions' tab is selected, displaying a list of workflow runs. The 'Jen-ai87 is testing out GitHub Actions' workflow is shown with three runs, all of which are successful.

Workflow	Run	Status	Branch	Actor	Event	Time
Jen-ai87 is testing out GitHub Actions	1	Success	main	Jen-ai87	Push	13 minutes ago
Jen-ai87 is testing out GitHub Actions	2	Success	main	Jen-ai87	Push	20 minutes ago
Jen-ai87 is testing out GitHub Actions	3	Success	main	Jen-ai87	Push	Today at 7:48 PM