

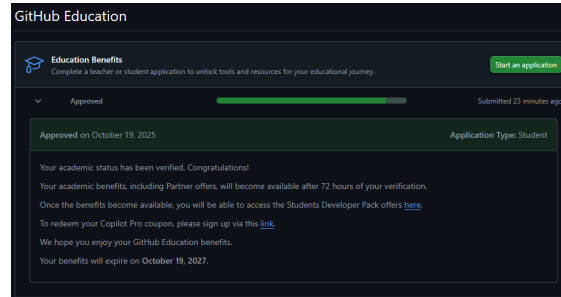
Part 1a. Sign Up for GitHub Education

Figure 1: Accepted Github Education Application

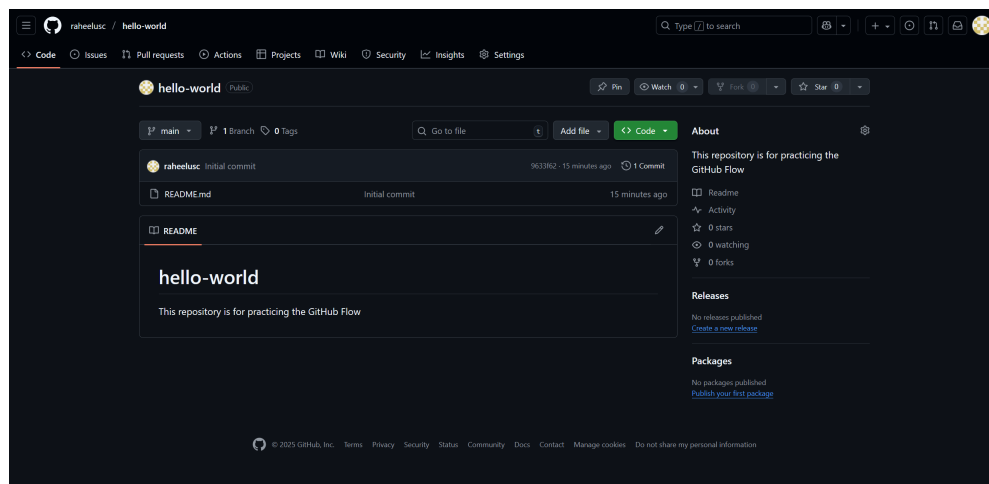
Part 1b. GitHub Tutorial from the Web UI

Figure 2: Step 1 - Made a repo

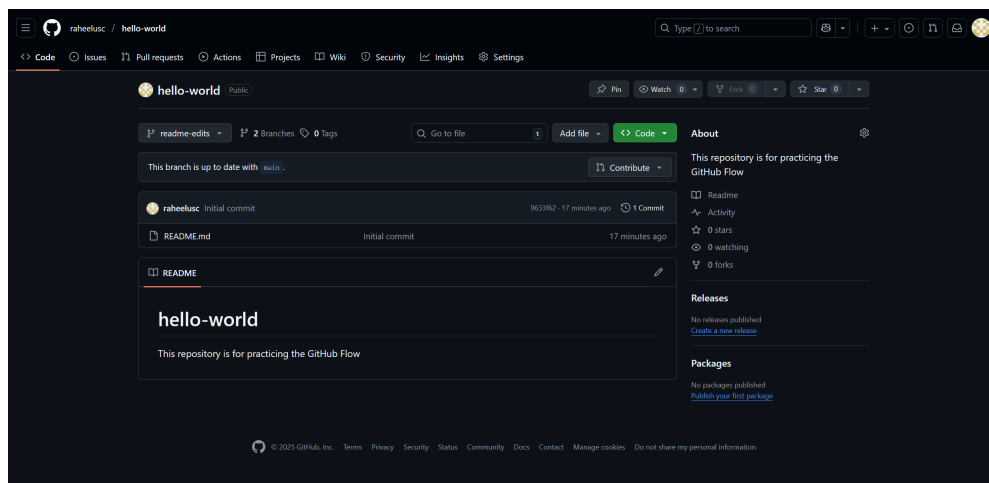


Figure 3: Step 2 - Created readme-edits branch

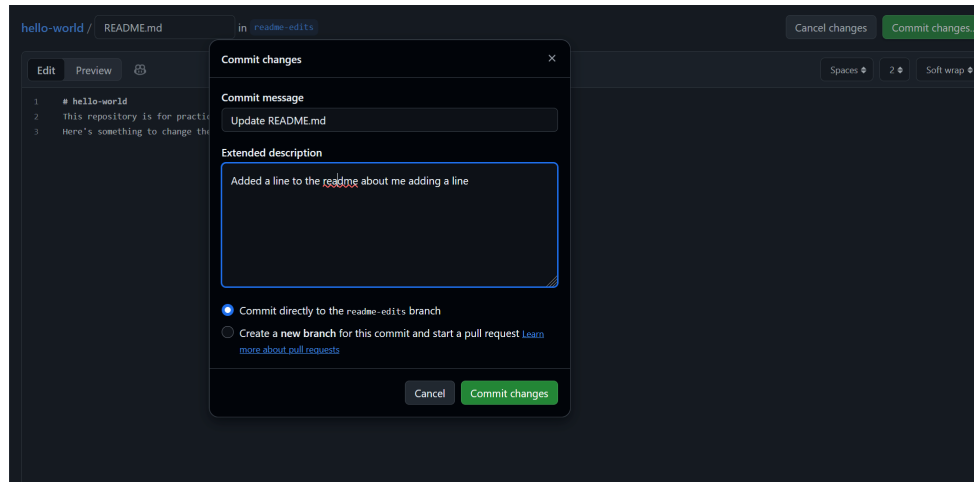


Figure 4: Step 3 - Pushed a commit

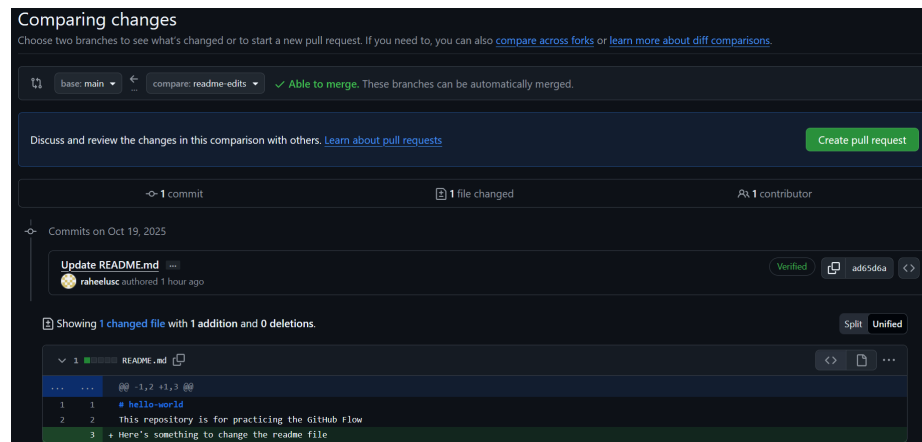


Figure 5: Step 4 - Created a pull request

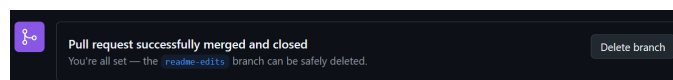


Figure 6: Step 5 - Merged branches

Part 1c. Why Use Git and Version Control?

- Version control is the practice of tracking and managing changes to software code.
- Version control is needed to avoid conflicts from multiple contributors
- SCM tracks modifications to a source code repo and is synonymous with version control
- Git is the most widely used version control system

Part 1d. Git from the Command Line

```

MINGW64 ~/Documents/Latex
$ git config --global user.name "Zahraan Raheel"
$ git config --global user.email "zraheel@protonmail.com"
$ gh auth login
where do you use GitHub.com?
what is your preferred protocol for git operations on this host? HTTPS
Authenticate git with your GitHub credentials? yes
you would you like to authenticate GitHub CLI? login with a web browser
First copy your one-time code: 4690-5278
Press enter to open https://github.com/login/device in your browser...
Authentication complete.
$ gh config set -h github.com git_protocol https
Configured git protocol
Logged in as zraheeloc
$

```

Figure 7: Git username and GitHub credentials setup

Part 1d. Git from the Command Line

```

MINGW64 ~/Documents/Latex
$ git config --global user.name "Zahraan Raheel"
$ git config --global user.email "zraheel@protonmail.com"
$ gh auth login
where do you use GitHub.com?
what is your preferred protocol for git operations on this host? HTTPS
Authenticate git with your GitHub credentials? yes
you would you like to authenticate GitHub CLI? login with a web browser
First copy your one-time code: 4690-5278
Press enter to open https://github.com/login/device in your browser...
Authentication complete.
$ gh config set -h github.com git_protocol https
Configured git protocol
Logged in as zraheeloc
$

```

Figure 8: Git username and GitHub credentials setup

Part 1e. Committing Changes from the Command Line

```

MINGW64 ~/Documents/Latex/ASTE404/GitHub
$ cd latex
$ cd Documents
$ cd Latex
$ cd ASTE404
$ cd ASTE404
$ cd GitHub
$ git clone https://github.com/zraheeloc/hello-world.git
Cloning into 'hello-world'...
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 7 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (7/7), done.
Resolving deltas: 100% (1/1), done.
$ ls
hello-world/
$

```

Figure 9: Cloned GitHub repo

Part 1f. Committing Changes from the Command Line

```

MINGW64 ~/Documents/Latex/ASTE404/GitHub/hello-world
$ git branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
nothing to commit, working tree clean
$ git add ASTE404_Raheel1_Hat.pdf
$ git commit -m "Add a snapshot of the assignment report"
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
nothing to commit, working tree clean
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 436.29 KiB | 10.73 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/zraheeloc/hello-world.git
   eaf241..d0d8da main -> main

```

Figure 10: Pushed HW file to repo

Part 1h. Committing my final report

