Tarlac State University
COLLEGE OF COMPUTER STUDIES

Case Study in Integrative Programming Technology 2

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Submitted To:
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Date: []

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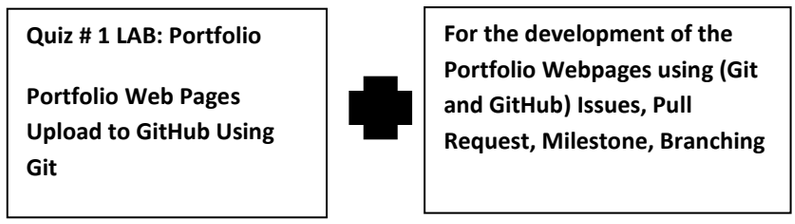
A. Definition

The Lab Quiz#2 you did (Static Website) upload the documentation and files in your GitHub repository and add a minimum of 3 more webpages to add in your repository during the development use Git and GitHub and create a documentation of all.



Requirements:

- Each member in your group will need to upload **a webpage**
- Create a **Pull Request** for each member in Github with comments.
- Create an **Issue** for each member in Github and comment.
- Create a **Milestone** for the group in Github.
- Create a branch for each member and merge it with your master in Github.

Define and describe how you use of each command with screenshot in your case study.

- ~~Git clone~~
- ~~Git Pull~~
- ~~Git Push~~
- ~~Git Fetch~~
- ~~Git Merge~~
- ~~Issue~~
- Pull Request
- ~~Milestone~~
- ~~Branch~~

Note: List the contributions of your group members

Jay Mark Melivo – Repository, landing page, documentation, Website.

Ma. Virgie Petchalin – Documentation, Website.

Mark Joseph Fabicon – Documentation, Website.

Lucielle Joy Razon – Documentation, Website.

B. Case Analysis (Git and GitHub Workflow)

B.1 Documentation

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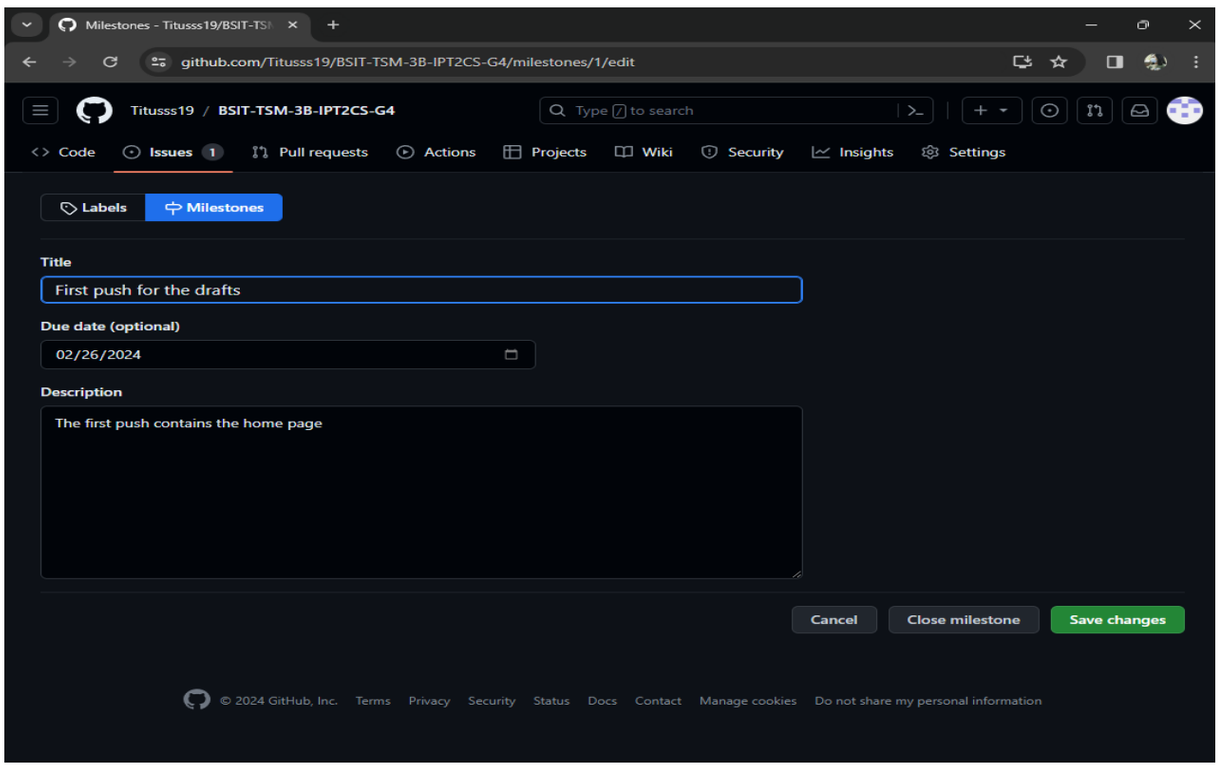
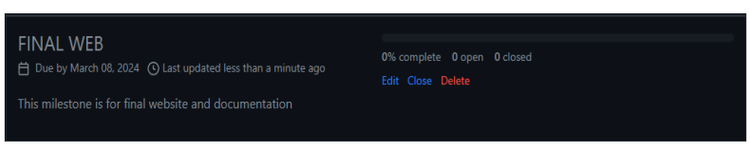
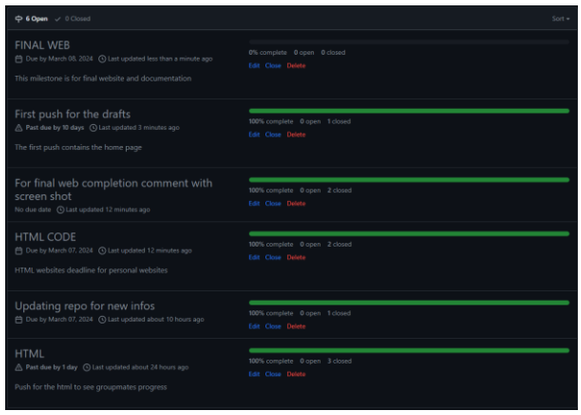
Remote Repository (GitHub) **Creating a Milestone**

Delegated task: to keep on tract with the HTML from collaborators



Before the case study runs to its development cycle, the group decided to agree whenever the deadlines are. I am delegated to keep on tract the HTML files of my groupmates and the other elements of a webpage such as PHP, JavaScript and CSS are delegated to them as well. Using GitHub's Milestone feature, it makes the progress to be tracked, it also tracks all pull request and issues that the collaborators had made [1].

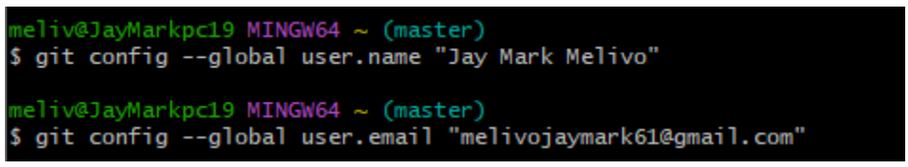




As we can see here, there are different milestone that are created.

Local Repository (Git)

Setting Email and Username for Author



Creating the profile's HTML file

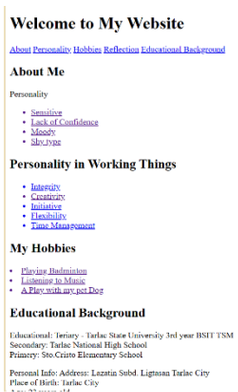
Ma.Virgie Fernando Petchalin

"Knowing others is intelligence; knowing yourself is true wisdom."
-by Lao Tzu.

MY INFORMATION

EDUCATION:
TERTIARY: Tarlac State University
-3rd Year Bachelor of Science and Information Technology
major in Technical Service Management

SECONDARY: O'Donnell High School
-Humanities and Social Science



Welcome to My Website

About Personality Hobbies Reflection Educational Background

About Me

Personality

- Sensitive
- Lack of Confidence
- Moody
- Shy type

Personality in Working Things

- Integrity
- Creativity
- Initiative
- Flexibility
- Time Management

My Hobbies

- Playing Badminton
- Listening to Music
- A Play with my pet Dog

Educational Background

Educational: Tertiary - Tarlac State University 3rd year BSIT TSM
Secondary: Tarlac National High School
Primary: Sto.Cristo Elementary School

Personal Info: Address: Lazatin Subd. Ligtasan Tarlac City
Place of Birth: Tarlac City

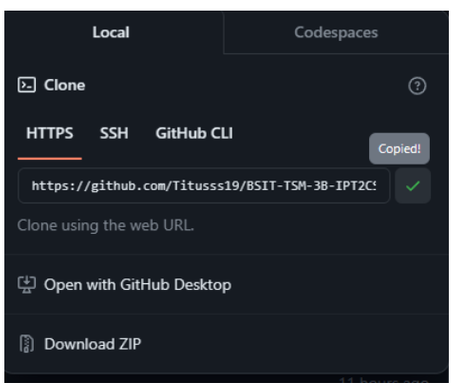
This is my html profile; no other designs are implemented yet and basic information about are added.

Creating and initializing local repository

```
meliv@JayMarkpc19 MINGW64 ~ (master)
$ git config --global user.name "Jay Mark Melivo"

meliv@JayMarkpc19 MINGW64 ~ (master)
$ git config --global user.email "melivojaymark61@gmail.com"

meliv@JayMarkpc19 MINGW64 ~ (master)
$ cd OneDrive

meliv@JayMarkpc19 MINGW64 ~/OneDrive (master)
$ cd Documents

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents (master)
$ mkdir IPT2-CaseStudy

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents (master)
$ cd IPT2-CaseStudy

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2-CaseStudy (master)
$ git init
Initialized empty Git repository in C:/Users/meliv/OneDrive/Documents/IPT2-CaseStudy/.git/

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2-CaseStudy (master)
```

Creation of local working directory and initializing at as git directory.

Cloning the repository from GitHub to local repository using bash terminal



Cloning can be achieved by accessing the github repository by clicking the Code and under HTTPS copy the link.

On the bash terminal type git clone and paste the link from github. Git clone command copies an existing repository and clones it to new repository or another location [2]. Accessing the repo by $cd folder-name in our case study it will be cd IPT2-CaseStudy.

```
meliv@JayMarkpc19 MINGW64 ~
$ cd OneDrive

meliv@JayMarkpc19 MINGW64 ~/OneDrive
$ cd Documents

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents
$ mkdir IPT2-CaseStudy

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents
$ cd IPT2-CaseStudy

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2-CaseStudy
$ git clone https://github.com/Titusss19/BSIT-TSM-3B-IPT2CS-G4.git
Cloning into 'BSIT-TSM-3B-IPT2CS-G4'...
remote: Enumerating objects: 101, done.
remote: Counting objects: 100% (101/101), done.
remote: Compressing objects: 100% (85/85), done.
remote: Total 101 (delta 25), reused 81 (delta 14), pack-reused 0
Receiving objects: 100% (101/101), 4.72 MiB | 3.02 MiB/s, done.
Resolving deltas: 100% (25/25), done.
```

Working on local-repo and creating a local-branch

```
meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2-CaseStudy (master)
$ git checkout -b Jaymark-Branch
Switched to a new branch 'Jaymark-Branch'

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2-CaseStudy (Jaymark-Branch)
```

On this part of the study, I created a new branch under clone local repository and named it as axel-branch. Branches are made for new features to add or simply not to interfere with the main branch that can be merge to the main later on [3].

```
meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2--Casestudy (Jaymark1-branch)
$ git add .

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2--Casestudy (Jaymark1-branch)
$ git commit -m "initial commit"
[Jaymark1-branch dc1e421] initial commit
 5 files changed, 954 insertions(+)
 create mode 100644 OneDrive/Documents/IPT2--Casestudy/JayMark.html
 create mode 100644 OneDrive/Documents/IPT2--Casestudy/STATICWEB.html
 create mode 100644 OneDrive/Documents/IPT2--Casestudy/index.html
 create mode 100644 OneDrive/Documents/IPT2--Casestudy/indexRazon.html
 create mode 100644 OneDrive/Documents/IPT2--Casestudy/petchalin.html

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2--Casestudy (Jaymark1-branch)
$ git checkout master
Switched to branch 'master'

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2--Casestudy (master)
$
```

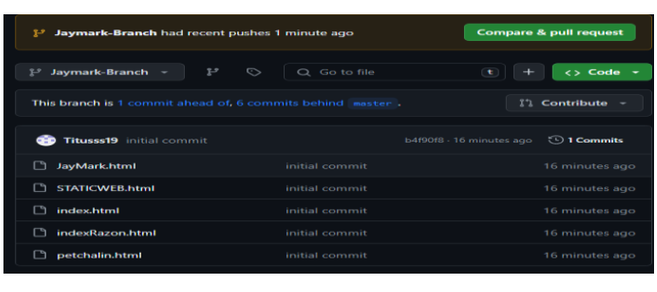
The created html file was then pasted on the local-repo folder, this makes the files as untracked and by using the git command "*git add .*" , the files are now tracked, using the git commit -m "message" then takes a snapshot of the current code and leaves a message for later documentation, git checkout main then moves us to the main branch.

```
meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2-CaseStudy (master)
$ git push origin HEAD:Jaymark-Branch
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 16 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (7/7), 11.02 KiB | 11.02 MiB/s, done.
Total 7 (delta 1), reused 5 (delta 1), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'Jaymark-Branch' on GitHub by visiting:
remote:      https://github.com/Titusss19/BSIT-TSM-3B-IPT2CS-G4/pull/new/Jaymark-Branch
remote:
To https://github.com/Titusss19/BSIT-TSM-3B-IPT2CS-G4.git
 * [new branch]      HEAD -> Jaymark-Branch
```

Merging from local branch to local main. Merging through the command *git merge –no-ff branchname -m "message"* integrates the changes that was made from the other branches to main [4].

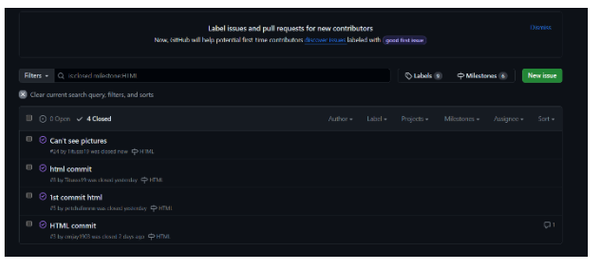
```
meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2--Casestudy (master)
$ git push origin HEAD:jaymark1-branch
Enumerating objects: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 16 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (15/15), 11.54 KiB | 5.77 MiB/s, done.
Total 15 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
remote:
remote: Create a pull request for 'jaymark1-branch' on GitHub by visiting:
remote:      https://github.com/Titusss19/BSIT-TSM-3B-IPT2CS-G4/pull/new/jaymark
1-branch
remote:
To https://github.com/Titusss19/BSIT-TSM-3B-IPT2CS-G4.git
 * [new branch]      HEAD -> jaymark1-branch
```

Pushing the local main to github branch, the command *git push origin HEAD:branch name* sends my local main repo to the specified github branch. Git push uploads local content repository to other location or remote repository [5].

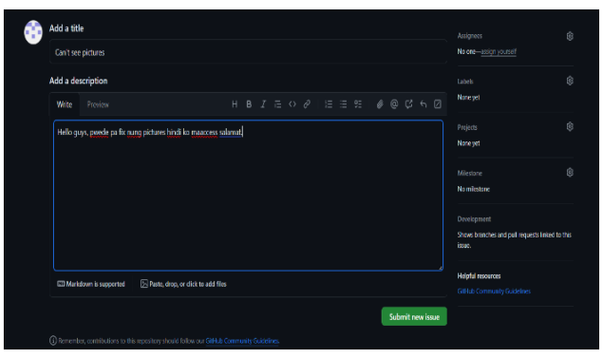


```
meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2-CaseStudy (master)
$ git fetch
remote: Enumerating objects: 124, done.
remote: Counting objects: 100% (124/124), done.
remote: Compressing objects: 100% (96/96), done.
remote: Total 124 (delta 34), reused 100 (delta 17), pack-reused 0
Receiving objects: 100% (124/124), 4.25 MiB | 5.26 MiB/s, done.
Resolving deltas: 100% (34/34), done.
From https://github.com/Titusss19/BSIT-TSM-3B-IPT2CS-G4
 * [new branch]      ellej            -> origin/ellej
 * [new branch]      fabicon-portfolio -> origin/fabicon-portfolio
 * [new branch]      jaymark          -> origin/jaymark
 * [new branch]      jaymark1-branch  -> origin/jaymark1-branch
 * [new branch]      lacsina          -> origin/lacsina
 * [new branch]      master           -> origin/master
 * [new branch]      petchalin        -> origin/petchalin
```

Git fetch, fetches files from repository and saves it into the local machine [6].



Creating new Issue

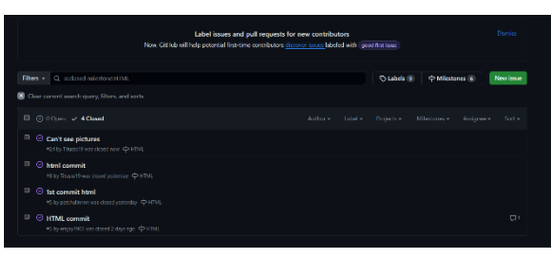


While scanning to the submitted html files of the collaborators, there are unclosed tags that are observed. Notifying them through github using the Issue feature. GitHub issue is intended for discussion, pull request and manages the collaborators on how they will solve the problem [7].

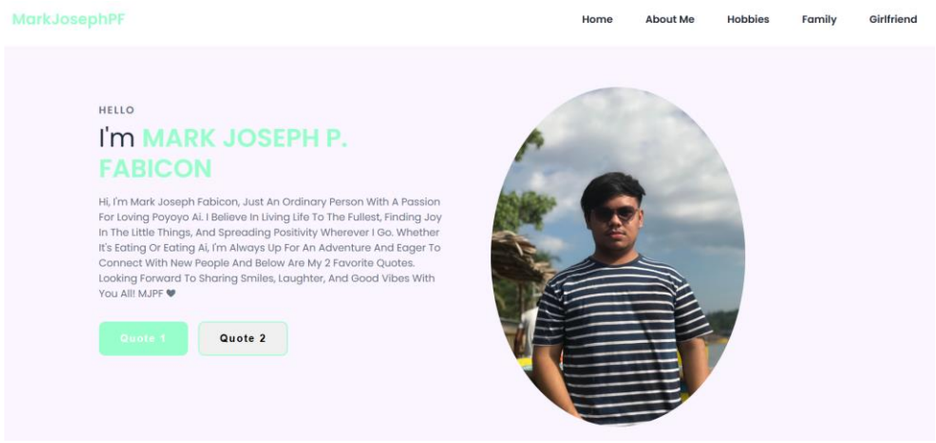
Addressing the Issue

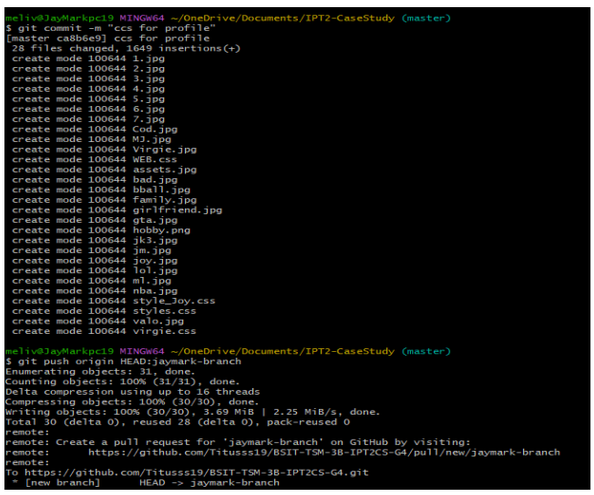
```
meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2--Casestudy (master)
$ git pull origin master
From https://github.com/Titusss19/BSIT-TSM-3B-IPT2CS-G4
 * branch            master     -> FETCH_HEAD
Already up to date.

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2--Casestudy (master)
$ ls
1.jpg  5.jpg         MJ.jpg          bad.jpg          jk3.jpg  nba.jpg
2.jpg  6.jpg         STATICWEB.html  girlfriend.jpg   jm.jpg   petchalin.html
3.jpg  7.jpg         Virgie.jpg      index.html       joy.jpg  valo.jpg
4.jpg  JayMark.html  assets.jpg      indexRazon.html  ml.jpg
```

In order to address the issue, we expect that our cloned repository has been changed or collaborators added their own works to the clone repository, In order to update our local copy of repository we must use git pull. Git pull downloads the new contents from remote repository and updates the local repository [8] which we will work later on.



Adding CSS

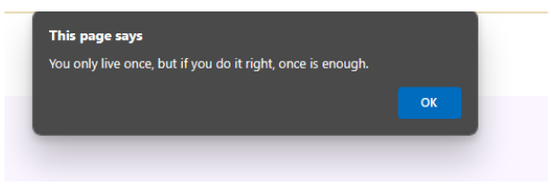




```
meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2-CaseStudy (master)
$ git commit -m "ccs for profile"
[master ca8b6e9] ccs for profile
 28 files changed, 1649 insertions(+)
 create mode 100644 1.jpg
 create mode 100644 2.jpg
 create mode 100644 3.jpg
 create mode 100644 4.jpg
 create mode 100644 5.jpg
 create mode 100644 6.jpg
 create mode 100644 7.jpg
 create mode 100644 Cod.jpg
 create mode 100644 MJ.jpg
 create mode 100644 Virgie.jpg
 create mode 100644 WEB.css
 create mode 100644 assets.jpg
 create mode 100644 bad.jpg
 create mode 100644 bball.jpg
 create mode 100644 family.jpg
 create mode 100644 girlfriend.jpg
 create mode 100644 gta.jpg
 create mode 100644 hobby.png
 create mode 100644 jk3.jpg
 create mode 100644 jm.jpg
 create mode 100644 joy.jpg
 create mode 100644 lol.jpg
 create mode 100644 ml.jpg
 create mode 100644 nba.jpg
 create mode 100644 style_Joy.css
 create mode 100644 styles.css
 create mode 100644 valo.jpg
 create mode 100644 virgie.css

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2-CaseStudy (master)
$ git push origin HEAD:jaymark-branch
Enumerating objects: 31, done.
Counting objects: 100% (31/31), done.
Delta compression using up to 16 threads
Compressing objects: 100% (30/30), done.
Writing objects: 100% (30/30), 3.69 MiB | 2.25 MiB/s, done.
Total 30 (delta 0), reused 28 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'jaymark-branch' on GitHub by visiting:
remote:      https://github.com/Titusss19/BSIT-TSM-3B-IPT2CS-G4/pull/new/jaymark-branch
remote:
To https://github.com/Titusss19/BSIT-TSM-3B-IPT2CS-G4.git
 * [new branch]      HEAD -> jaymark-branch
```

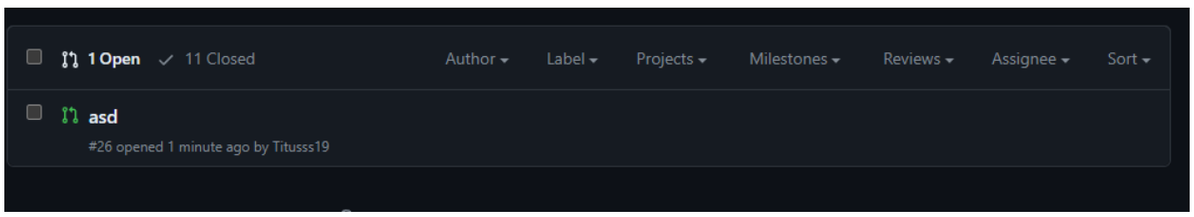
After ensuring that the HTML file is correct and working properly, it is time to design the webpage. Updating the initial html file and uploading the css which we add, commit and push it again to our branch in github.

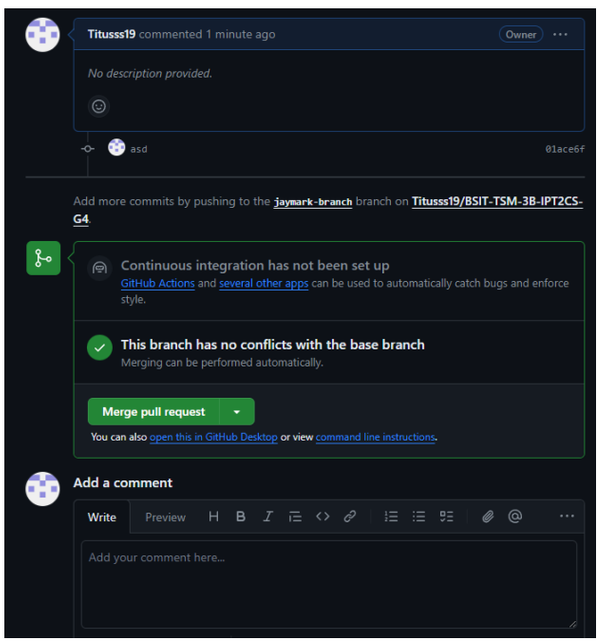
Adding JavaScript

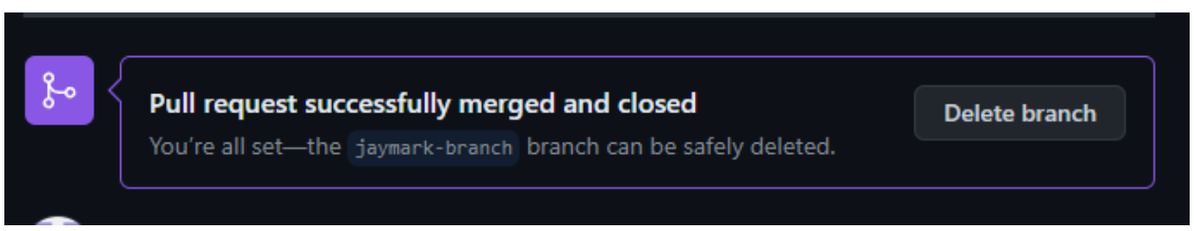



```
meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2-CaseStudy (master)
$ git commit -m "adding some javascript"
[master f62cb64] adding some javascript
 4 files changed, 190 insertions(+)
 create mode 100644 Mavirgie.js
 create mode 100644 mjjs.js
 create mode 100644 script.js
 create mode 100644 script_ellejl.js

meliv@JayMarkpc19 MINGW64 ~/OneDrive/Documents/IPT2-CaseStudy (master)
$ git push origin HEAD:jaymark-branch
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 16 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 2.41 KiB | 2.41 MiB/s, done.
Total 6 (delta 1), reused 4 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Titusss19/BSIT-TSM-3B-IPT2CS-G4.git
   ca8b6e9..f62cb64  HEAD -> jaymark-branch
```

Merging Git Branches to Main







After the intensive checking by the collaborators, the last stage of application of the created branch is to merge with the github main branch. In this way, there are major changes to the main. In local repository we can merge our local branch to local main, the counterpart of merging in local is the github dedicated pull requests. Github pull request is a thread where the collaborators talks about the proposed changes to the main branch or the repository, where finished and approved works are located [9].

Grade Matrix:

Git Command	:	**20%**
GitHub Implement	:	**20%**
Documentation	:	**40%**
Webpage (Development)	:	**30%**
		100%