

# Software Engineering Tools Lab

## Assignment 3

2020BTECS00205

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## Module 3- GitHub

Q 1. Create a repository on GitHub named SET Lab and add files into it (you can add implementation files of previous assignment) perform below operations on it. (Add screenshot as an answer to every question)

Owner \* / Repository name \*

M74-dot / SET Lab ✓

Great repository names are short, unique, and don't contain spaces. Your new repository will be created as SET-Lab. How about [effective-octo-carnival?](#)

Description (optional)

☒ **Public**  
Anyone on the internet can see this repository. You choose who can commit.

☐ **Private**  
You choose who can see and commit to this repository.

**Initialize this repository with:**  
Skip this step if you're importing an existing repository.

☐ **Add a README file**  
This is where you can write a long description for your project. [Learn more.](#)

☐ **Add .gitignore**  
Choose which files not to track from a list of templates. [Learn more.](#)

☐ **Choose a license**  
A license tells others what they can and can't do with your code. [Learn more.](#)

**Create repository**

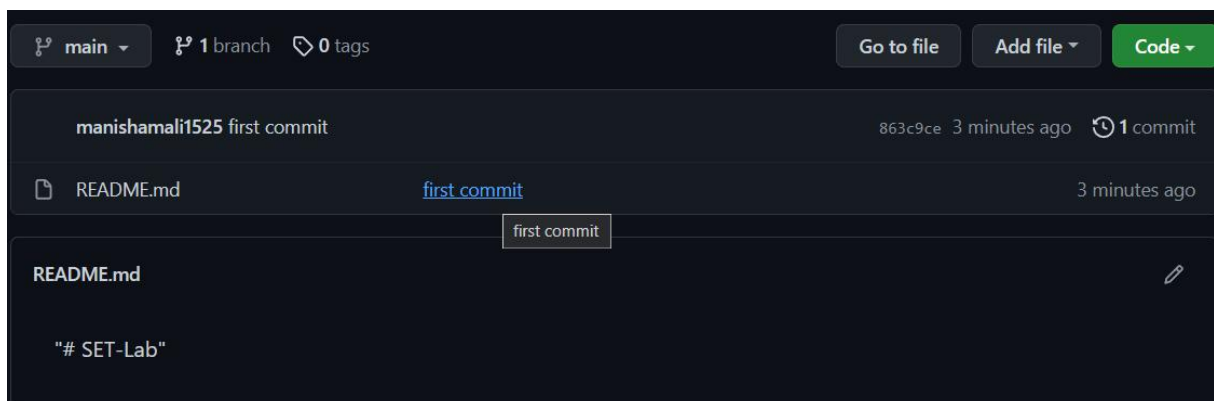
## ...or create a new repository on the command line

```
echo "# SET-Lab" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/M74-dot/SET-Lab.git
git push -u origin main
```

## ...or push an existing repository from the command line

```
git remote add origin https://github.com/M74-dot/SET-Lab.git
git branch -M main
git push -u origin main
```

1. Perform commit on added files



## Commit changes

Added Required Files

2. Perform update to the existing files (show history)
3. Create another branch

```
$ git checkout -b <branch-name>
```

#### 4. Create pull request

```
D:\>cd SET LAB - MY CV  
  
D:\SET LAB - My CV>git checkout -b newbranch  
Switched to a new branch 'newbranch'
```

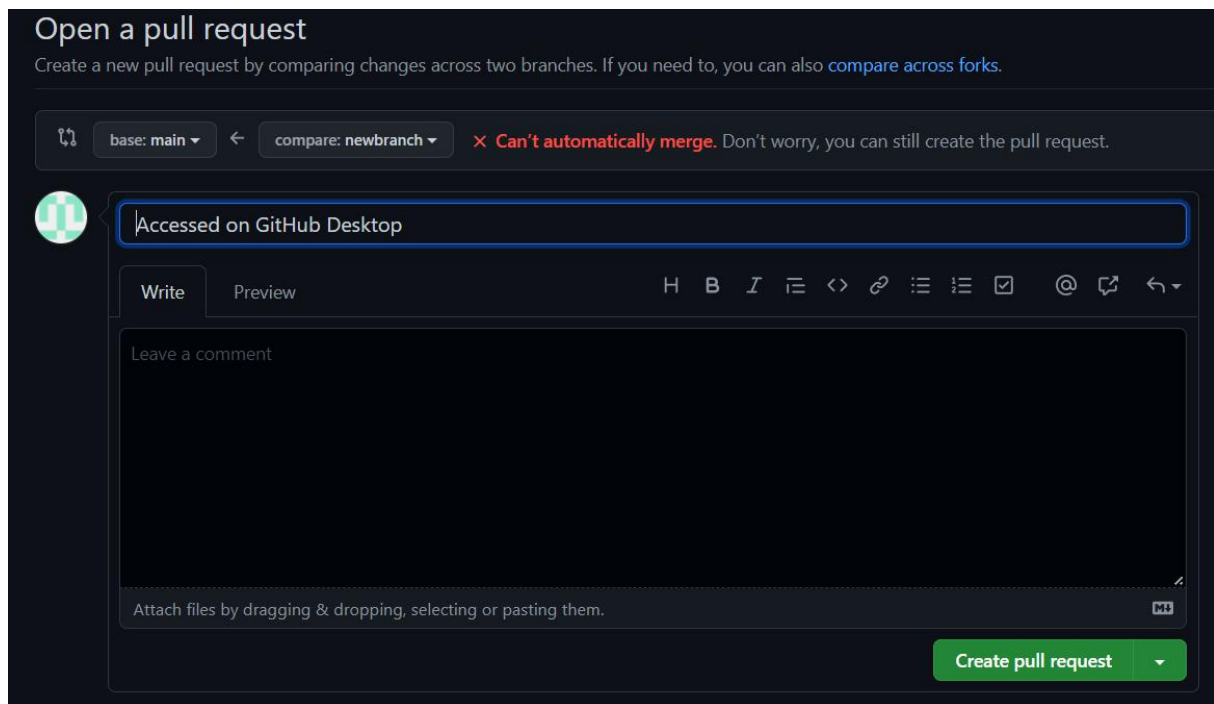
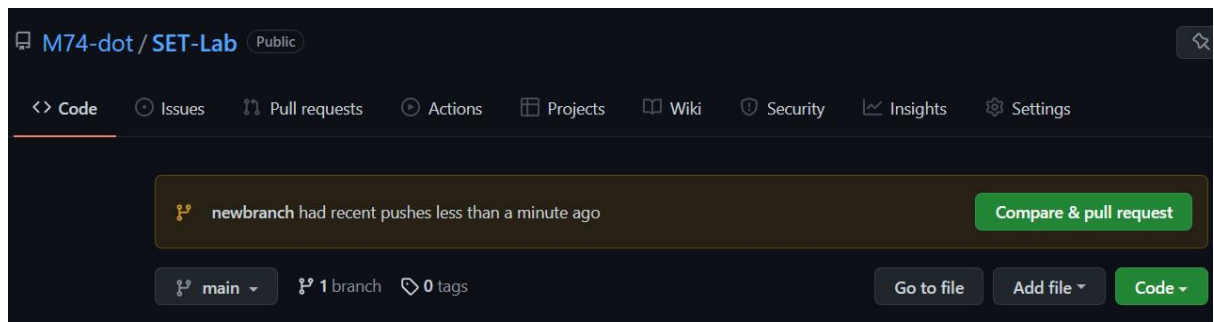
```
D:\SET LAB - My CV>git branch -a  
main  
* newbranch  
remotes/origin/main
```

```
D:\SET LAB - My CV>git push --set-upstream origin newbranch  
Enumerating objects: 21, done.  
Counting objects: 100% (21/21), done.  
Delta compression using up to 8 threads  
Compressing objects: 100% (16/16), done.  
Writing objects: 100% (21/21), 8.99 MiB | 150.00 KiB/s, done.  
Total 21 (delta 1), reused 0 (delta 0), pack-reused 0  
remote: Resolving deltas: 100% (1/1), done.  
remote:  
remote: Create a pull request for 'newbranch' on GitHub by visiting:  
remote:      https://github.com/M74-dot/SET-Lab/pull/new/newbranch  
remote:  
To https://github.com/M74-dot/SET-Lab.git  
* [new branch]      newbranch -> newbranch  
Branch 'newbranch' set up to track remote branch 'newbranch' from 'origin'.
```

#### 5. Perform merging of both branches

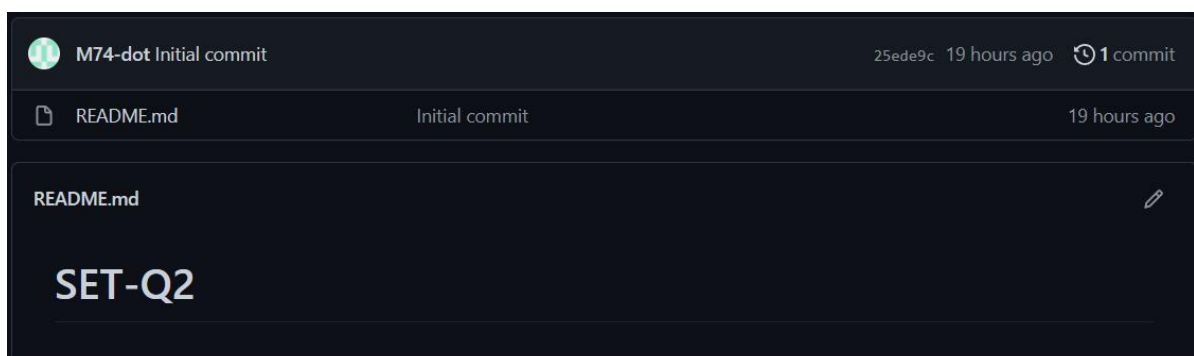
```
D:\SET LAB - My CV>git checkout main  
Switched to branch 'main'  
A      .vscode/settings.json  
Your branch and 'origin/main' have diverged,  
and have 1 and 1 different commits each, respectively.  
(use "git pull" to merge the remote branch into yours)
```

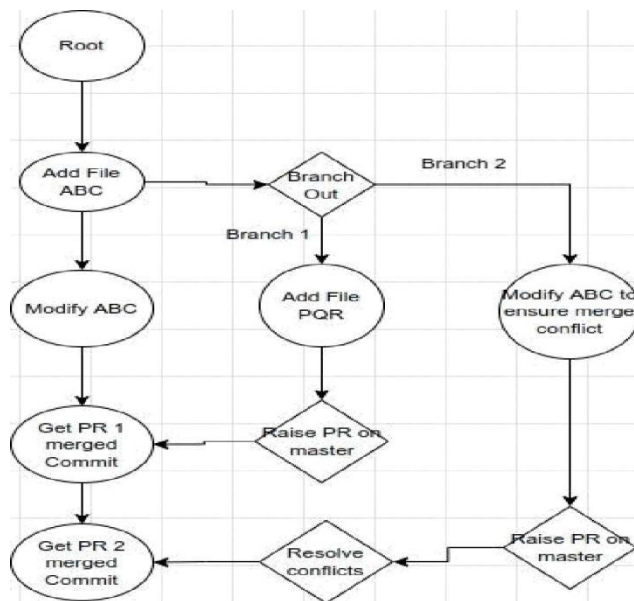
```
D:\SET LAB - My CV>git merge newbranch  
Already up to date.
```



## 6. Perform Fork operation

Q 2. For the diagram given below create a GitHub repository and perform operations given in the diagram. (Perform commit operations as given)(Add screenshots as an answer to this question)





Raw

Blame

%



## Commit changes

Modified **ABC** File

• Commit directly to the branch.

}§ Create a new branch for this commit and start a pull request.

Commit

## Commit new file

Created PQR

- Commit directly to the `branch2` branch.
- Create a new branch for this commit and `start` a pull request.

`branch2` had recent pushes less than a minute ago

Compare & pull request

Merge pull request #1 from M74-dot/branch2

Updated `ABC` by branch2

Cancel

Pull request successfully merged and closed

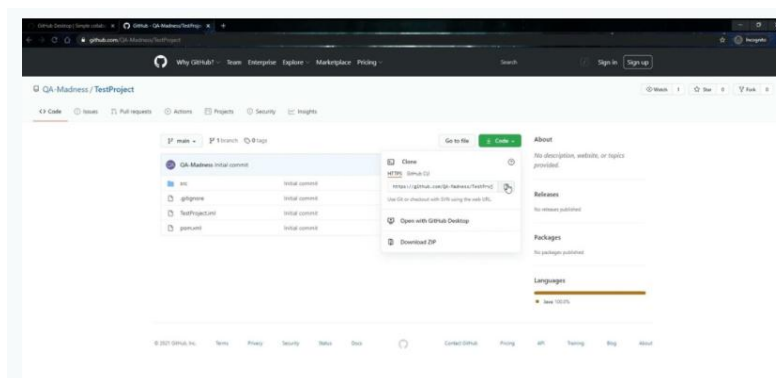
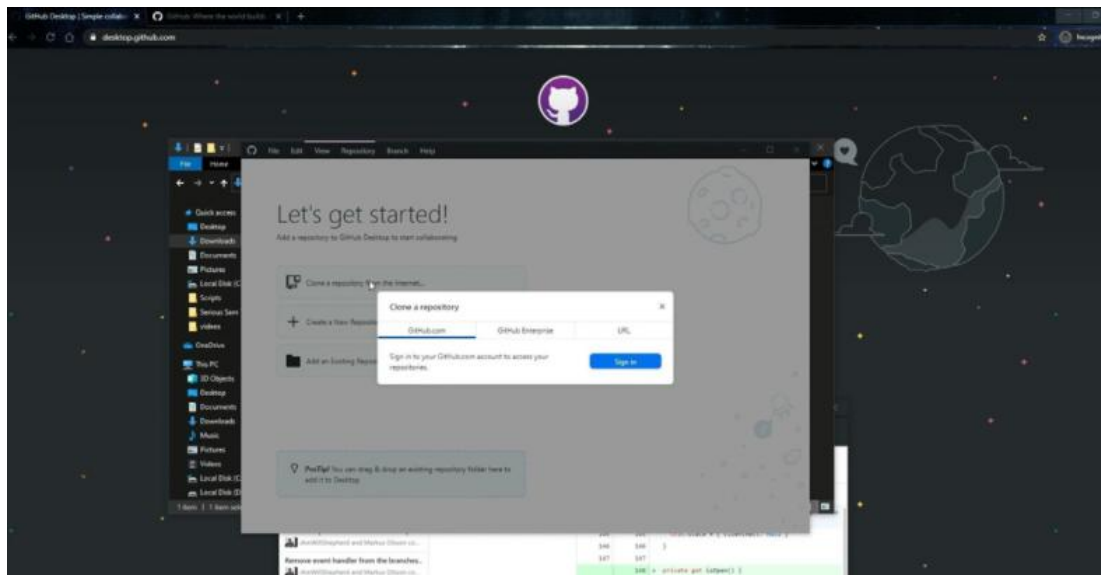
Delete

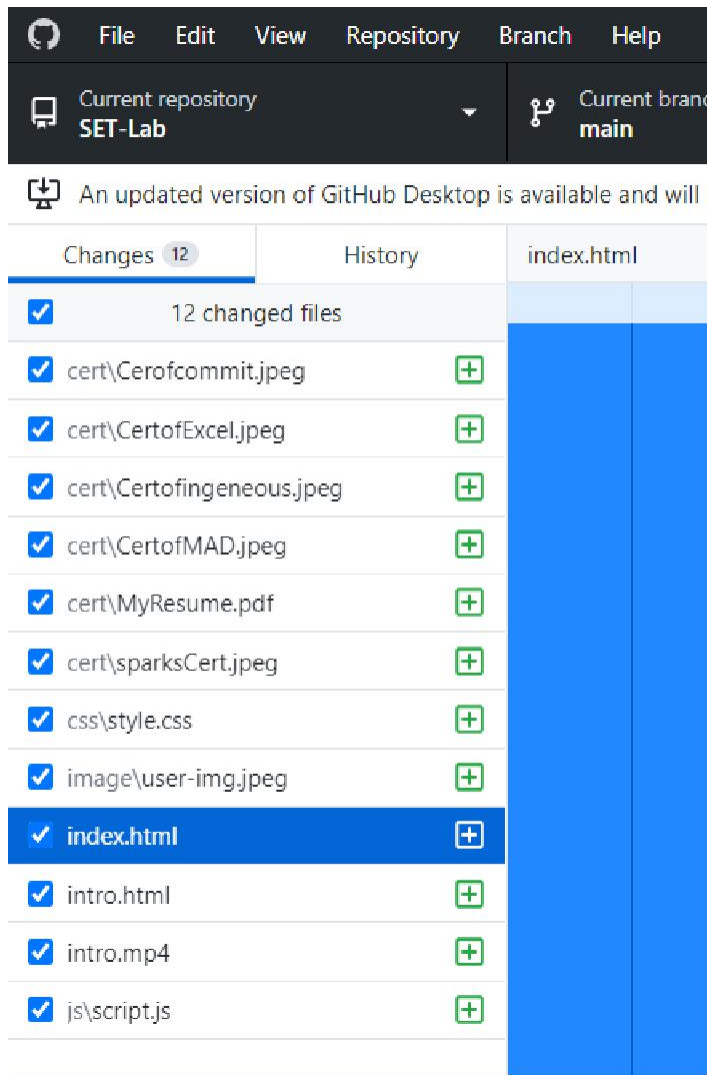
Write F - -

Q 3. What is GitHub desktop? How to install GitHub on local machine? Install GitHub on your local machine and access repository created in question no 1 (add screenshots).

GitHub Desktop is **an application that enables you to interact with GitHub using a GUI** instead of the command line or a web browser

You can push to, pull from, and clone remote repositories with GitHub Desktop, and use collaborative tools such as attributing commits and creating pull requests





I have installed GitHub desktop on my PC.

Q 4. Differentiate in between GitHub, Git and GitLab.



## GitHub

- GitHub is not open source.
- It allows users to have unlimited free repositories.
- GitHub allows users to have free private repository but with a maximum of three collaborators.

It is owned by Microsoft Corporation

- There is a limited private repository.
- It supports only Git version control.
- GitHub is a service
- GitHub is a graphical user interface
- GitHub is hosted on the Web
- GitHub is maintained by Microsoft.
- GitHub is focused on centralized source code hosting.
- GitHub is a hosting service for Git repositories.
- GitHub was launched in 2008.
- GitHub includes a free-tier and pay-for-use tier.

GitHub provides a Desktop interface named GitHub Desktop.

## Git

Git is a software.

Git is a command-line tool.

Git is installed locally on the system.

Git is focused on version control and code sharing.

Git is a version control system to manage source code history.

Git was first released in 2005.

Git is open-source licensed.

Git provides a Desktop interface named Git Gui.

## GitLab

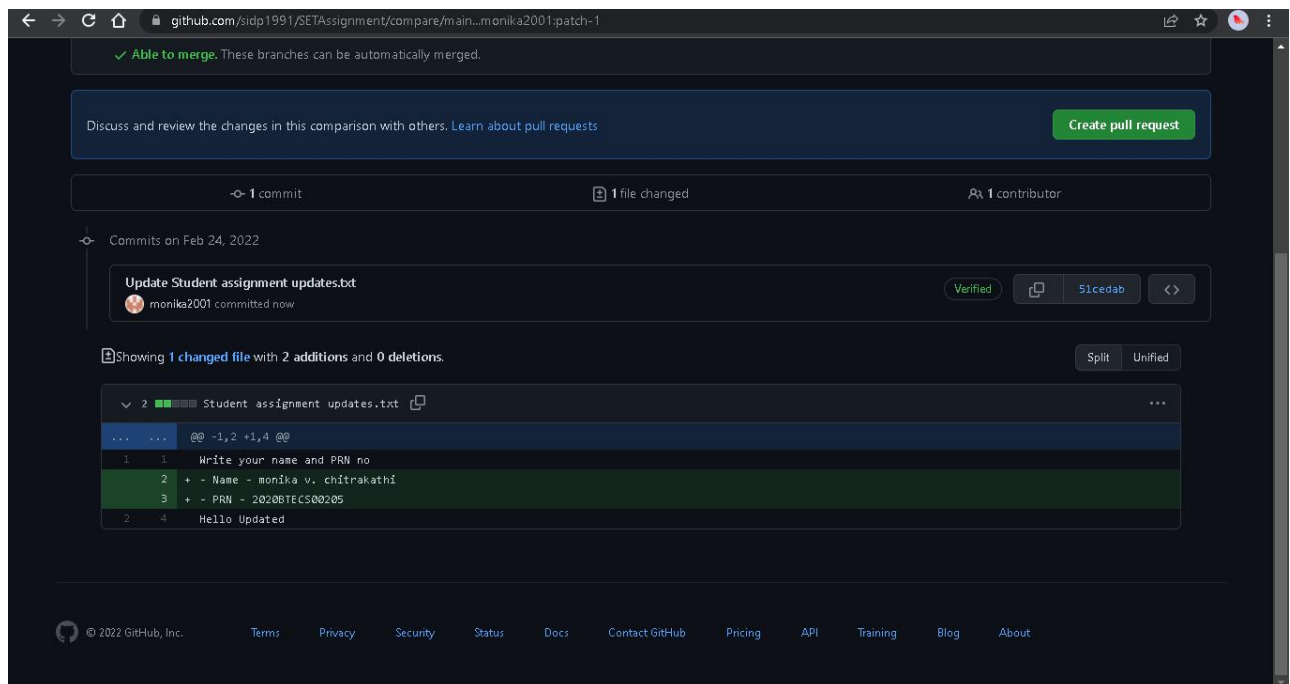
- GitLab is Open Source for community edition.
- It allows users to make public repository.
- GitLab also provides free private repository.

It is owned by GitLab Inc.

- GitLab is available with many bugs and it makes the user experience sloppy.
- It is difficult to manage code reviews for first-timers.

Q 5. Go to this <https://github.com/sidp1991/SETAssignment>

GitHub repository add your code file (question no 2 solved in assignment no 2) in this repository, then open file Student assignment updates.txt present in above repository and update your details such as Name and PRN and then perform commit( need to create pull request with appropriate comments). (Attach screenshots of this activity)



Updated Student

@ Allow edits by maintainers

Create pull request

Watch 1

Fork 42

Star 0

Public

Code

Wiki

— d g on Feb22

Updated Student File 448

Filters -

:main

:patch - 1

{ } 46 Op

You

#48 opened 4 minutes ago by M74-dot

Search or jump to...

Pull requests

Issues

Marketplace

Explore

sidp1991 / SETAssignment

Public

Watch 1

Fork 76

Star 0

<> Code

Issues

**Pull requests 76**

Actions

Projects

Wiki

Security

Insights

Update Student assignment updates.txt #81

Edit

<> Code

Open

monika2001 wants to merge 1 commit into sidp1991:main from monika2001:patch-1

Conversation 0

Commits 1

Checks 0

Files changed 1

+2 -0

monika2001 commented now

No description provided.

Update Student assignment updates.txt

Verified

Slicedab

Add more commits by pushing to the patch-1 branch on monika2001/SETAssignment

✓

This branch has no conflicts with the base branch

Only those with write access to this repository can merge pull requests.

Reviewers

No reviews

Still in progress? Convert to draft

Assignees

No one assigned

Labels

None yet

Projects

None yet