

Software Engineering Tools Lab

Assignment No-3

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PRN: 2019BECS00045

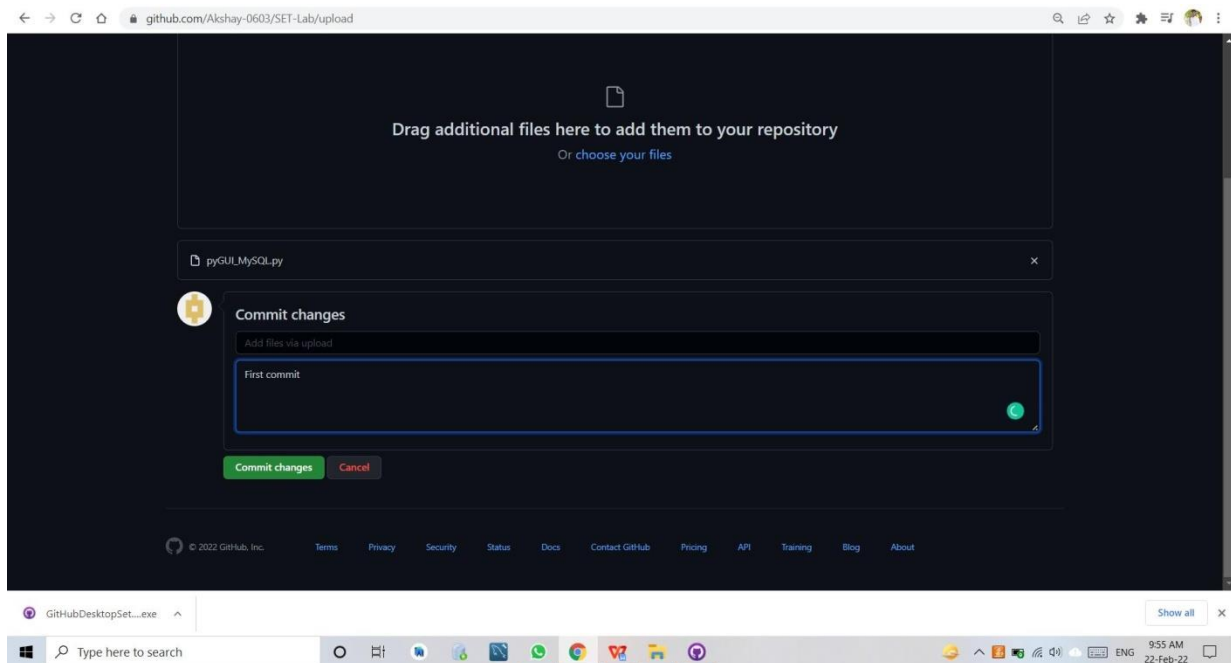
Batch: T6

(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)

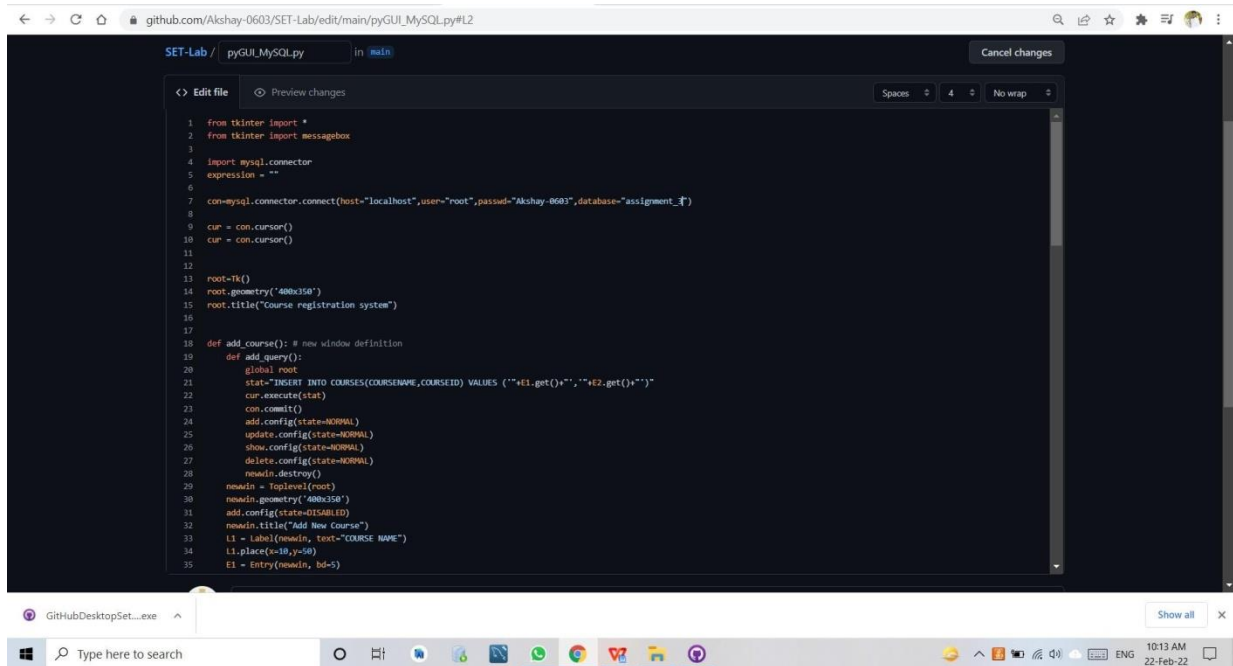
1. Perform commit on added files

Answer :



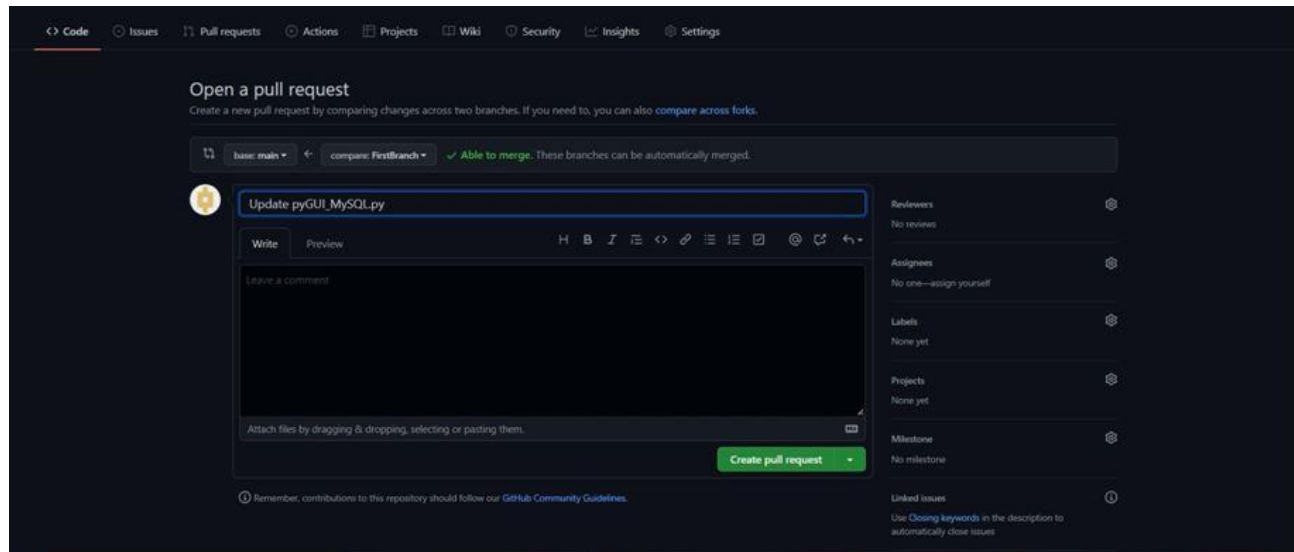
2. Perform update to the existing files (show history)

Answer :



3. Create pull request

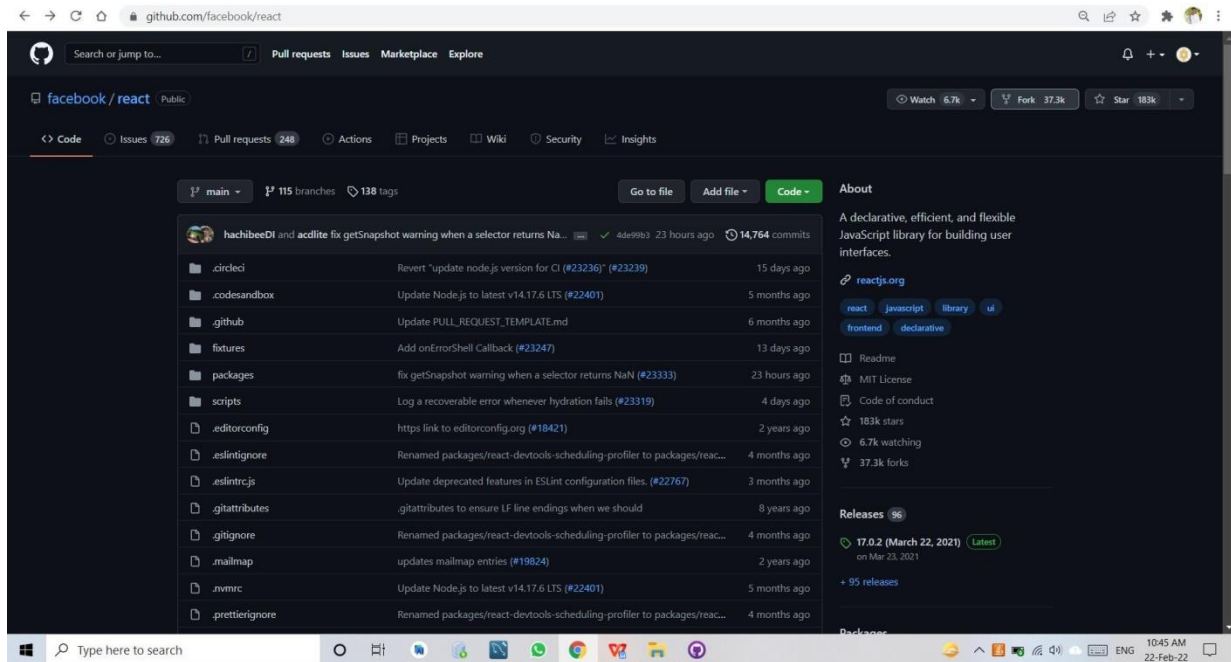
Answer :



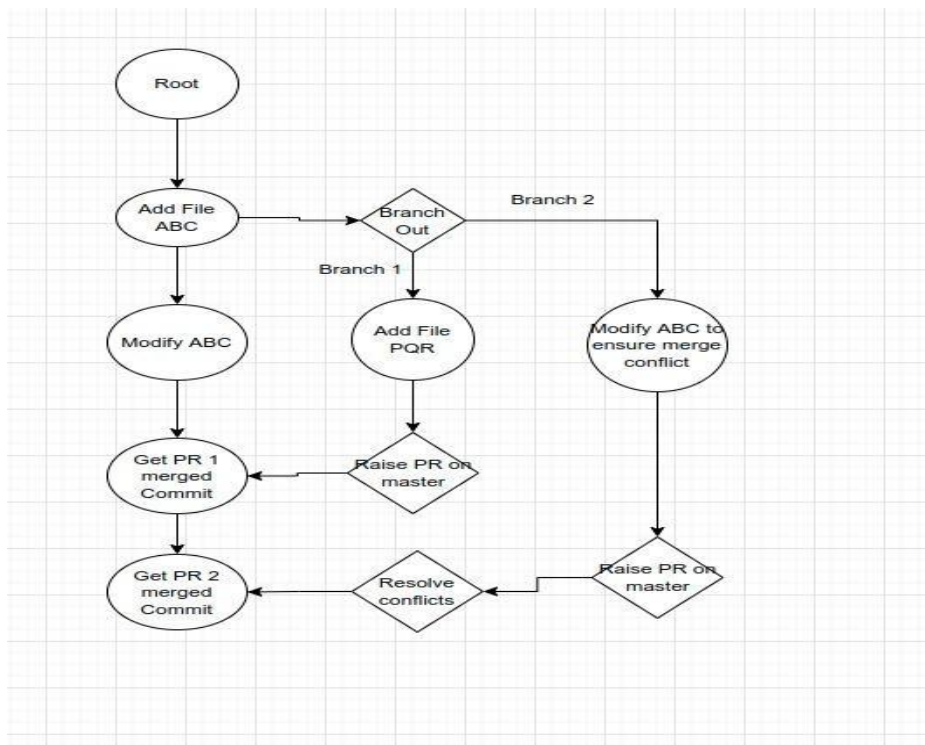
The screenshot shows the GitHub 'Open a pull request' page. At the top, there's a navigation bar with links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The main heading is 'Open a pull request' with a subtext: 'Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks.' Below this, there's a comparison bar showing 'base: main' and 'compare: FirstBranch' with a green checkmark indicating 'Able to merge'. The main content area has a title field 'Update pyGUI_MySQL.py' and a 'Write' tab. The description field is empty with a placeholder 'Leave a comment'. To the right, there's a sidebar with sections: Reviewers (No reviews), Assignees (No one—assign yourself), Labels (None yet), Projects (None yet), Milestone (No milestone), and Linked issues (Use Closing keywords in the description to automatically close issues). At the bottom right, there's a green 'Create pull request' button.

4. Perform Fork operation

Answer :

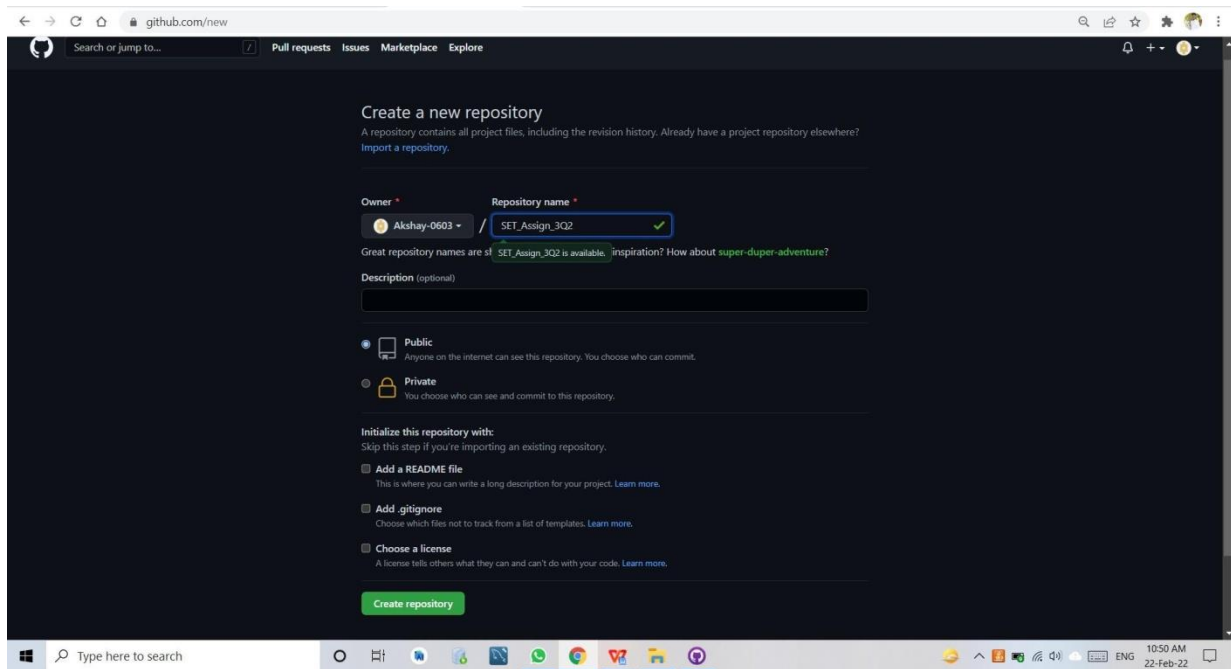


Q 2. For the diagram given below create a GitHub repository and perform operations given in the diagram. (Perform commit operations as given)(Add screenshots as an answer to this question)

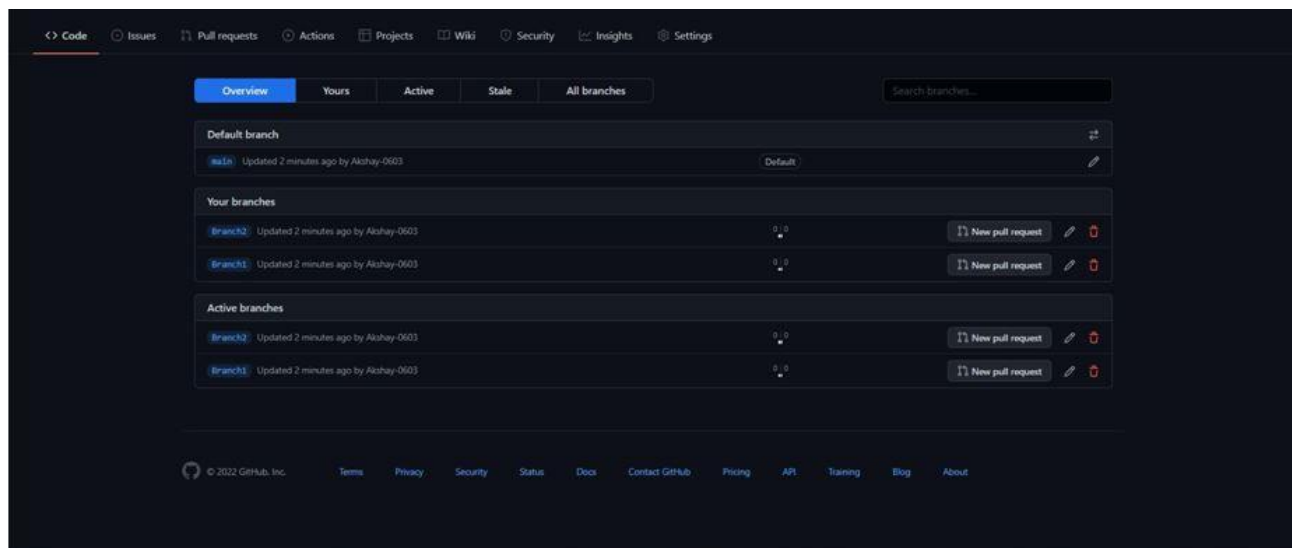


Answer :

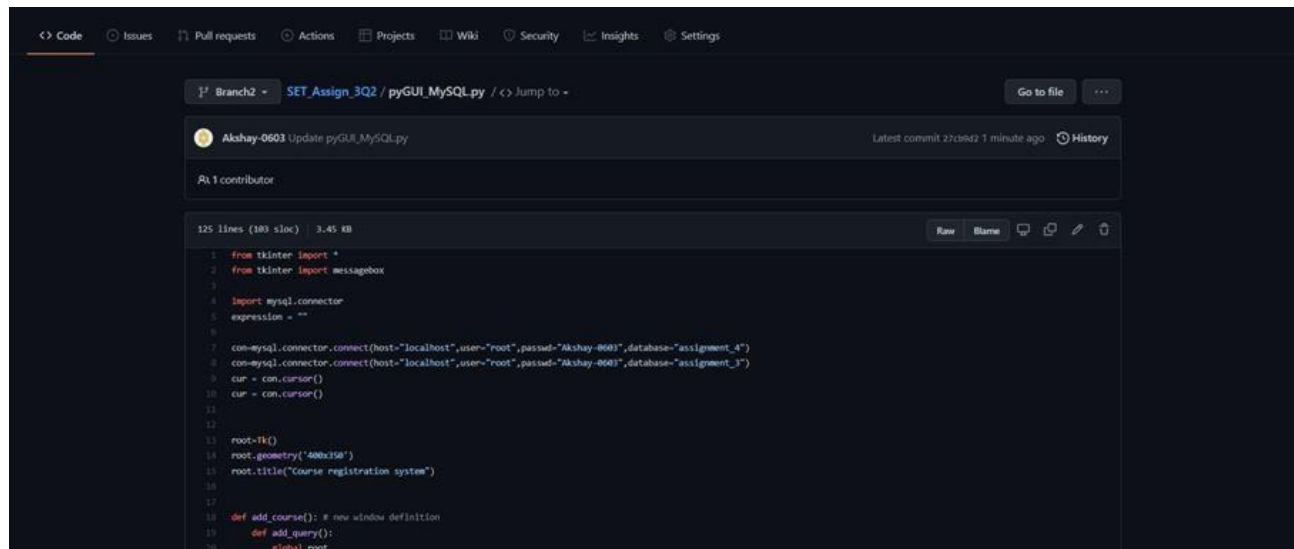
Firstly I have created Github repository and uploaded file 1 in it



Then I have Created 2 Branches in Main



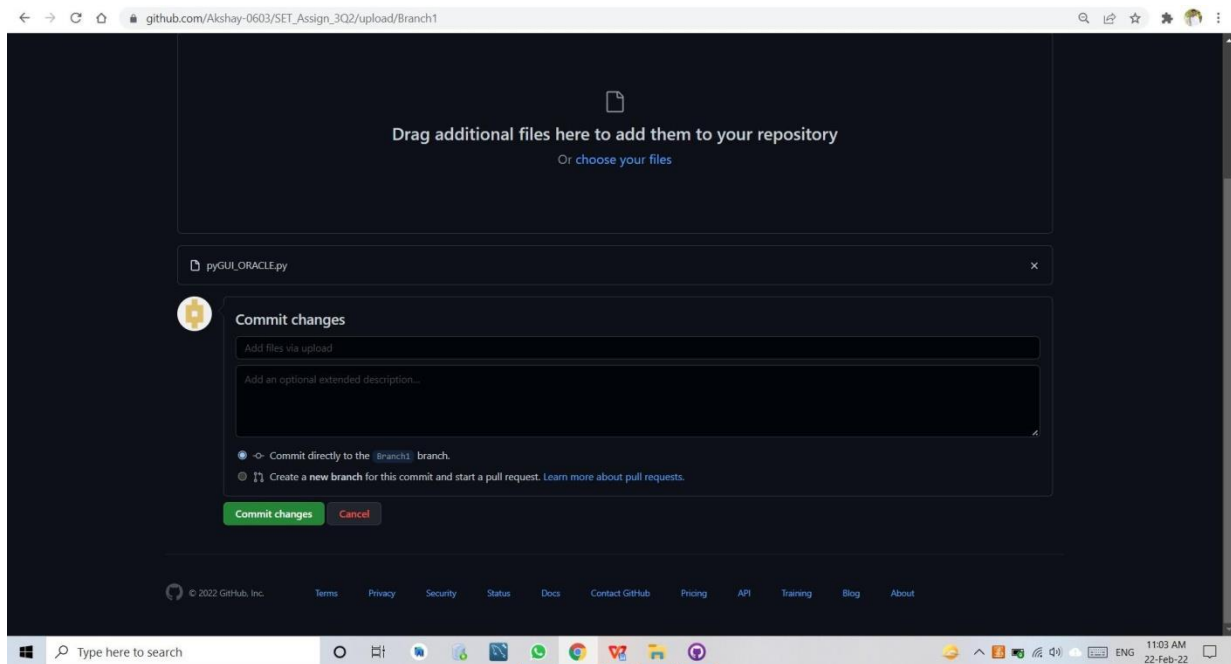
Then I have modified File 1



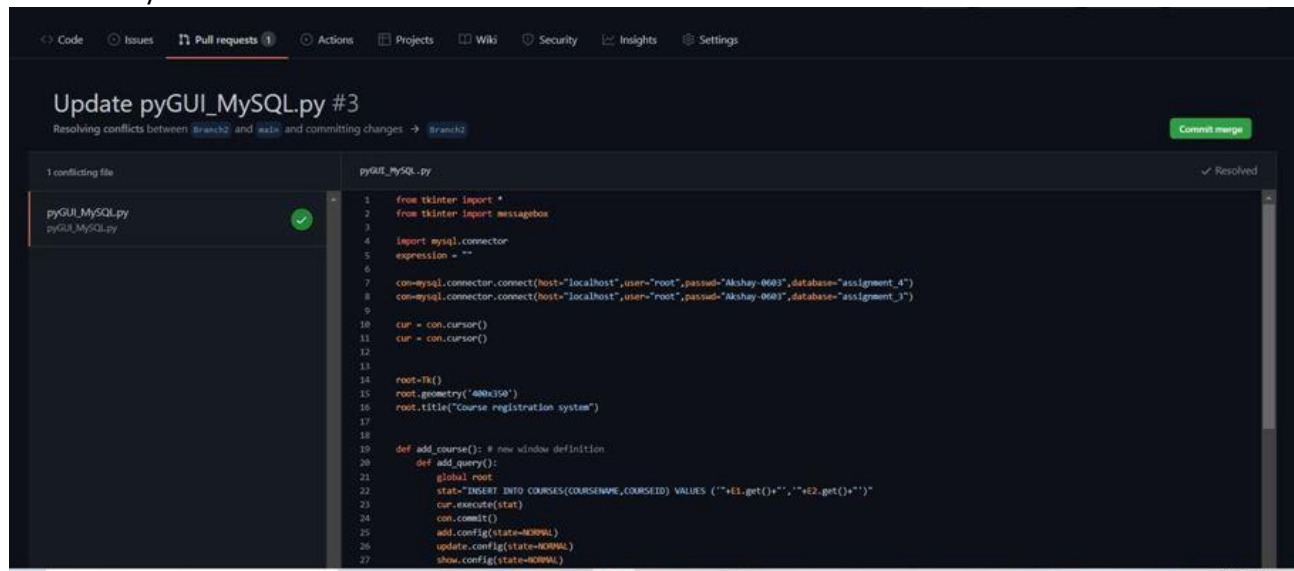
The screenshot shows a GitHub repository interface. At the top, there are navigation tabs: Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below these, the repository path is shown as "Branch2 - SET_Assign_3Q2 / pyGUI_MySQL.py". The file name "pyGUI_MySQL.py" is highlighted. Below the file name, it says "Akshay-0603 Update pyGUI_MySQL.py" and "Latest commit 22c9b42 1 minute ago". There is a "History" link. Below this, it says "1 contributor". The main area shows the code for the file, which is 125 lines (183 sloc) and 3.45 KB. The code is as follows:

```
1 from tkinter import *
2 from tkinter import messagebox
3
4 import mysql.connector
5 expression = ""
6
7 con=mysql.connector.connect(host="localhost",user="root",passwd="Akshay-0603",database="assignment_4")
8 con=mysql.connector.connect(host="localhost",user="root",passwd="Akshay-0603",database="assignment_3")
9 cur = con.cursor()
10 cur = con.cursor()
11
12
13 root=Tk()
14 root.geometry('400x350')
15 root.title("course registration system")
16
17
18 def add_course(): # new window definition
19     def add_query():
20         global root
```

Then I have added file 2in Branch 1



Then analysed the difference in the files



The screenshot displays a GitHub Pull Request titled "Update pyGUI_MySQL.py #3". The interface shows a conflict resolution screen for the file `pyGUI_MySQL.py`. The left sidebar indicates "1 conflicting file" and shows the file name with a green checkmark. The main area displays the code for `pyGUI_MySQL.py`, which is marked as "Resolved". The code includes imports for `tkinter` and `mysql.connector`, database connection details, cursor creation, and a function `add_course()` that inserts data into a `COURSES` table. The code is as follows:

```
1 from tkinter import *
2 from tkinter import messagebox
3
4 import mysql.connector
5 expression = ""
6
7 con=mysql.connector.connect(host="localhost",user="root",passwd="Akshay-0603",database="assignment_4")
8 con=mysql.connector.connect(host="localhost",user="root",passwd="Akshay-0603",database="assignment_3")
9
10 cur = con.cursor()
11 cur = con.cursor()
12
13
14 root=Tk()
15 root.geometry('400x350')
16 root.title("Course registration system")
17
18
19
20 def add_course(): # new window definition
21     def add_query():
22         global root
23         stat="INSERT INTO COURSES(COURSENAME,COURSEID) VALUES ('"+e1.get()+"','"+e2.get()+"')"
24         cur.execute(stat)
25         con.commit()
26         add.config(state=DISABLED)
27         update.config(state=DISABLED)
28         show.config(state=DISABLED)
```


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).

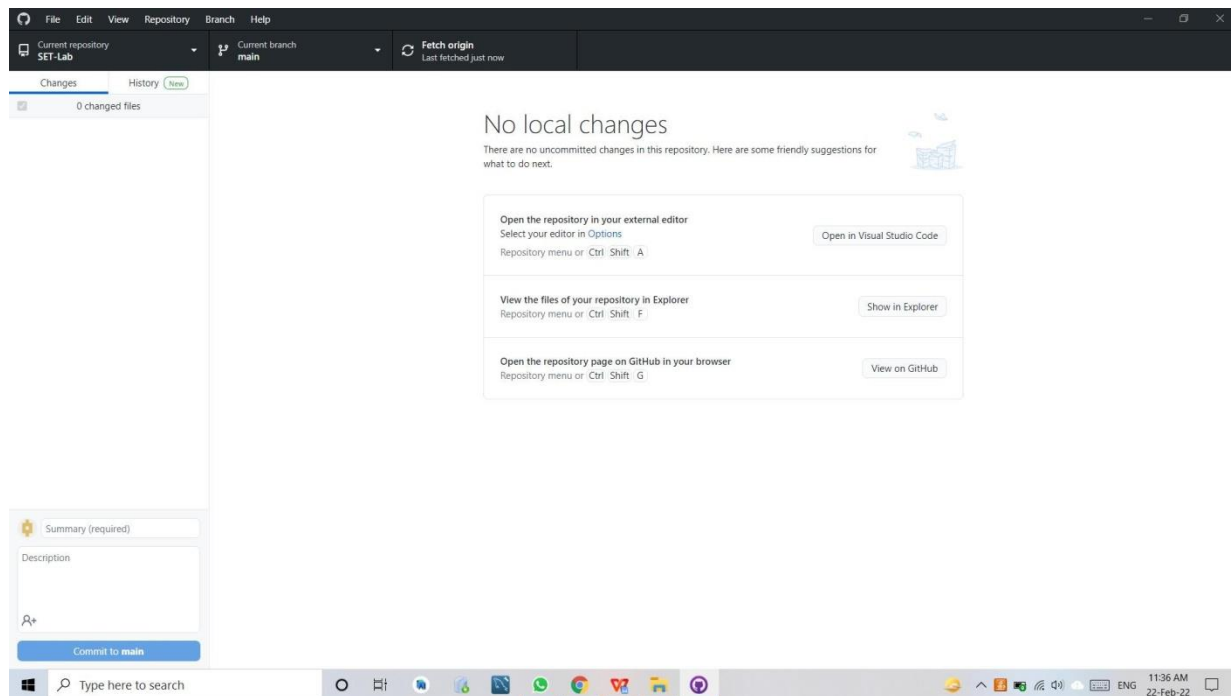
Answer :

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.

The installation of GitHub Desktop is as simple as any other Windows application installation. All you need to do is:

1. Open a browser.
2. Visit desktop.github.com.
3. Click Download for WIndows (64bit).
4. When prompted, click Run.
5. Allow the installation to download and install.

Accesing Github repository using local machine



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

Answer :

Git: Git is a open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

It will manage and keep tracks your changes of your projects.

It has a command line and GUI tool for pushing , committing the projects to the github, bitbucket or gitlab.

GitHub: GitHub is a cloud based git repository hosting service.


Here you can manage and share your code with other and manage development teams as collaborators.

You can manage private repositories with 3 collaborators for a software development projects.


Git Lab: Git lab is a web-based devops life cycle tool provides a git repository manager provides wiki, issue tracking and CI/CD pipe line.

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)

 Search or jump to... Pull requests Issues Marketplace Explore

sumedh24 / SETAssignment Public

 Watch 0 Fork 48 Star 0

<> Code Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file Code

This branch is up to date with sidp1991:main. Contribute Fetch upstream

sidp1991 Merge pull request sidp1991#2 from sdpwce/patch-1 94685c9 7 days ago 6 commits

README.md	first update	8 days ago
Student assignment updates.txt	ff	7 days ago
random.txt	uploaded file	8 days ago

README.md

SETAssignment

About

No description, website, or topics provided.

Readme 0 stars 0 watching 48 forks

Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)

Assignment3 #53 Edit <> Code

Open sumedh24 wants to merge 2 commits into sidp1991:main from sumedh24:main

Conversation 0 Commits 2 Checks 0 Files changed 2 +809 -1

sumedh24 commented now

Name and PRN updated

sumedh24 added 2 commits 10 minutes ago

First Verified 5ca2fd9

SET Verified cda933f

Reviewers

No reviews

Still in progress? Convert to draft

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone


Linked issues

Add more commits by pushing to the main branch on sumedh24/SETAssignment.

This branch has no conflicts with the base branch

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

Write Preview

H B I 

sidp1991 / SETAssignment Public Watch 1 Fork 49 Star 0

<> Code Issues Pull requests 51 Actions Projects Wiki Security Insights

Filters is:pr is:open

Labels 9 Milestones 0 New pull request

51 Open 2 Closed

Author Label Projects Milestones Reviews Assignee Sort

Assignment3

#53 opened 2 minutes ago by sumedh24

Updated files information, Added ass2 file

#52 opened 1 hour ago by OnkarGavali