

Software Engineering Tools Lab

Assignment No-3

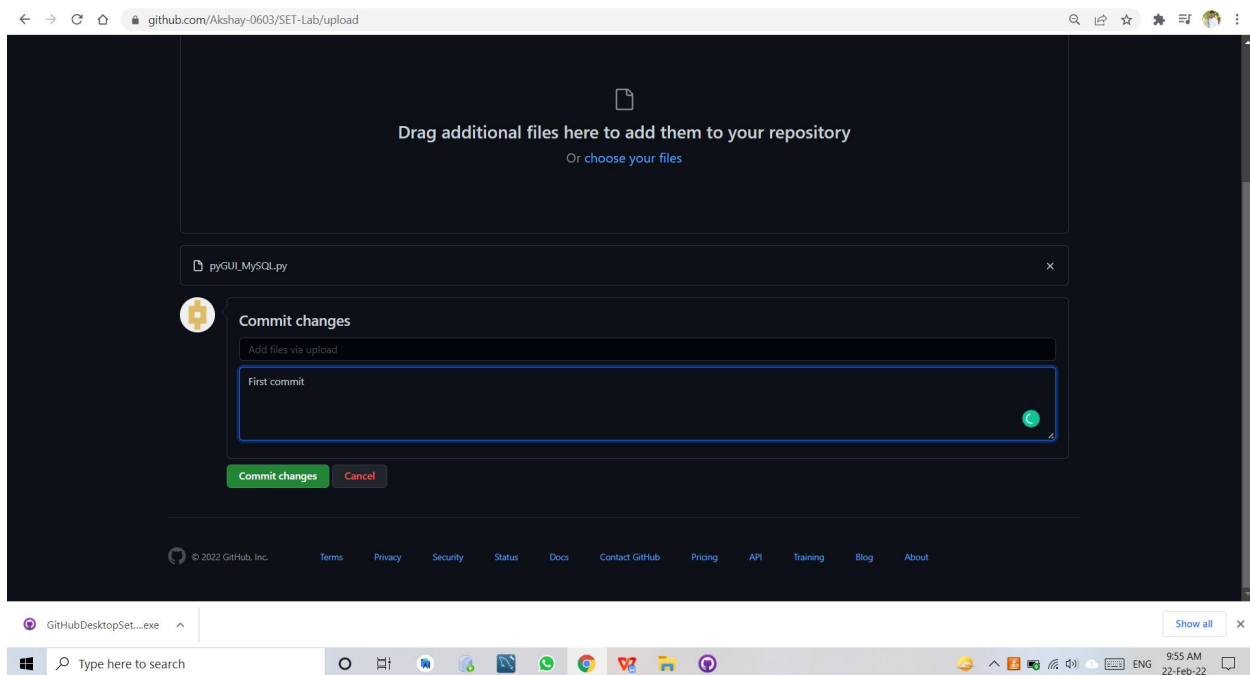
(Module 3- GitHub)

Due date-23/02/2022

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 :



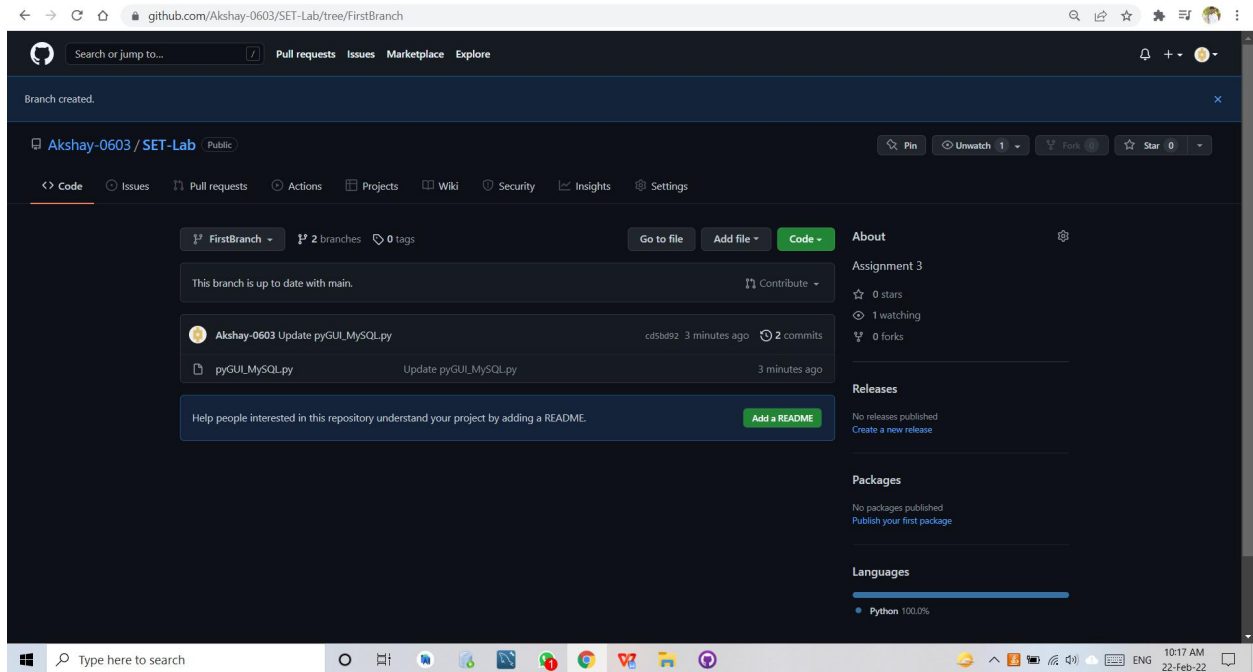
2. Perform update to the existing files (show history)

Answer :

```
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_3")
8
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
21         stat="INSERT INTO COURSES(COURSENAME,COURSEID) VALUES ('"+E1.get()+"','"+E2.get()+"')"
22         cur.execute(stat)
23         con.commit()
24         add.config(state=NORMAL)
25         update.config(state=NORMAL)
26         show.config(state=NORMAL)
27         delete.config(state=NORMAL)
28         newwin.destroy()
29         newwin = Toplevel(root)
30         newwin.geometry("400x350")
31         add.config(state=DISABLED)
32         newwin.title("Add New Course")
33         l1 = Label(newwin, text="COURSE NAME")
34         l1.place(x=10,y=50)
35         E1 = Entry(newwin, bd=5)
```

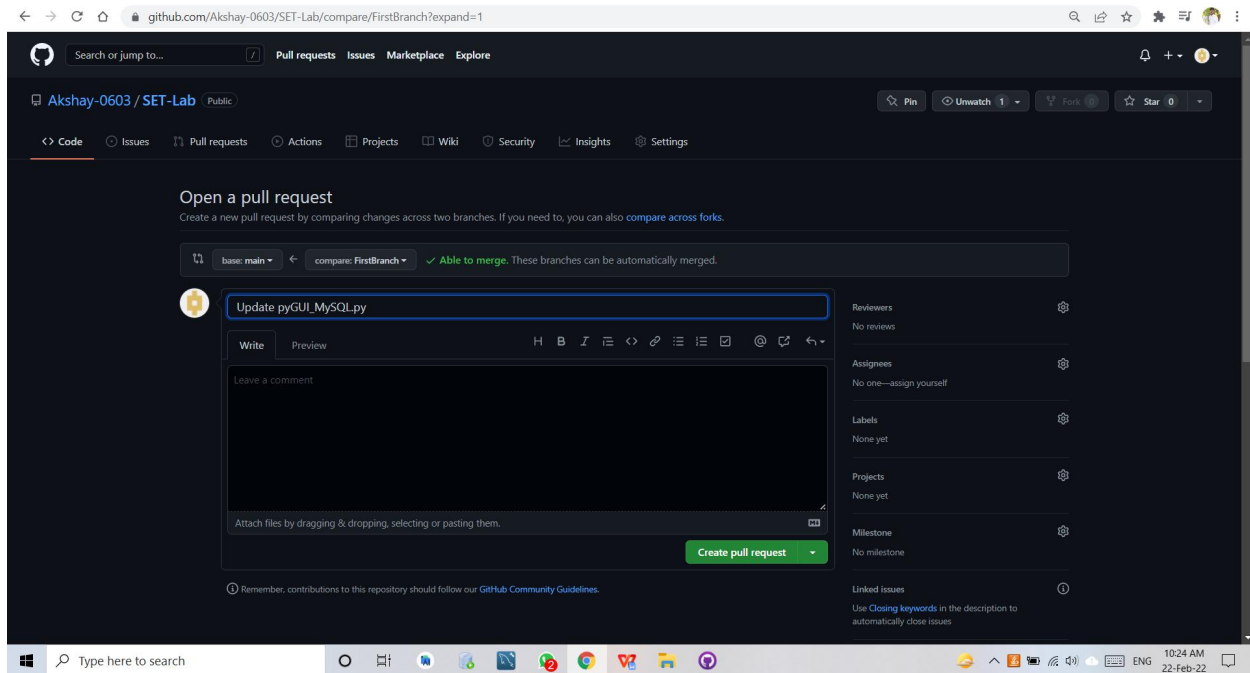
3. Create another branch

Answer :



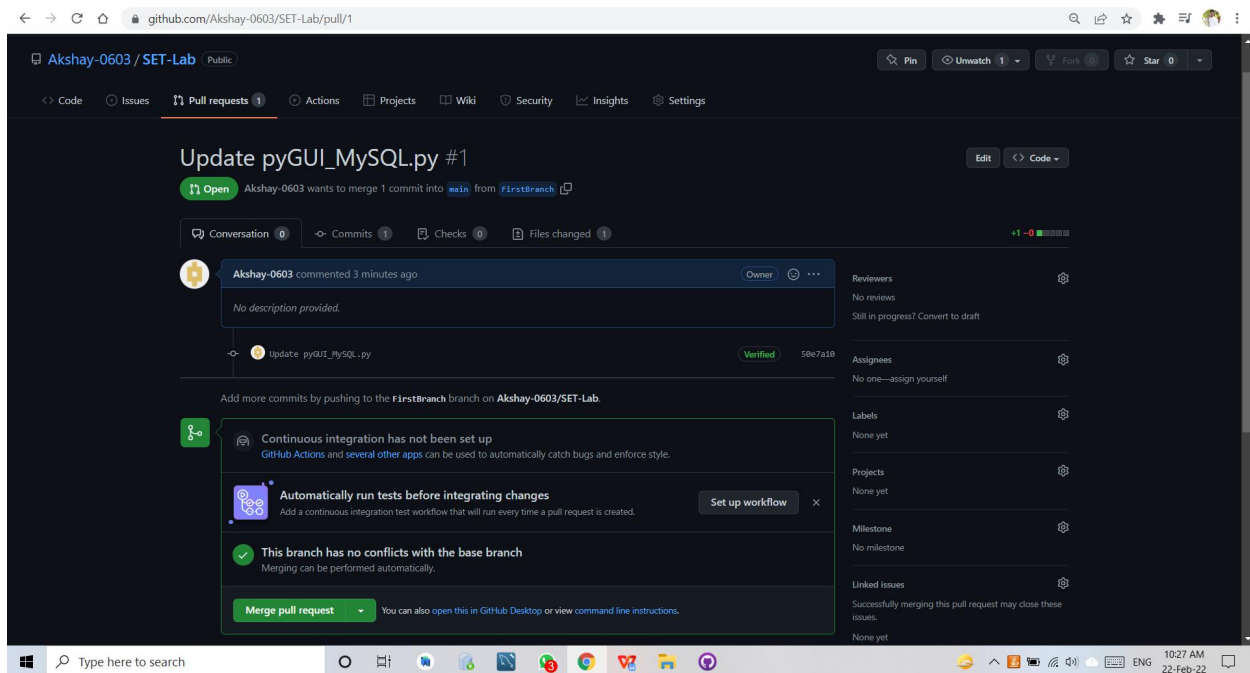
4. Create pull request

Answer :



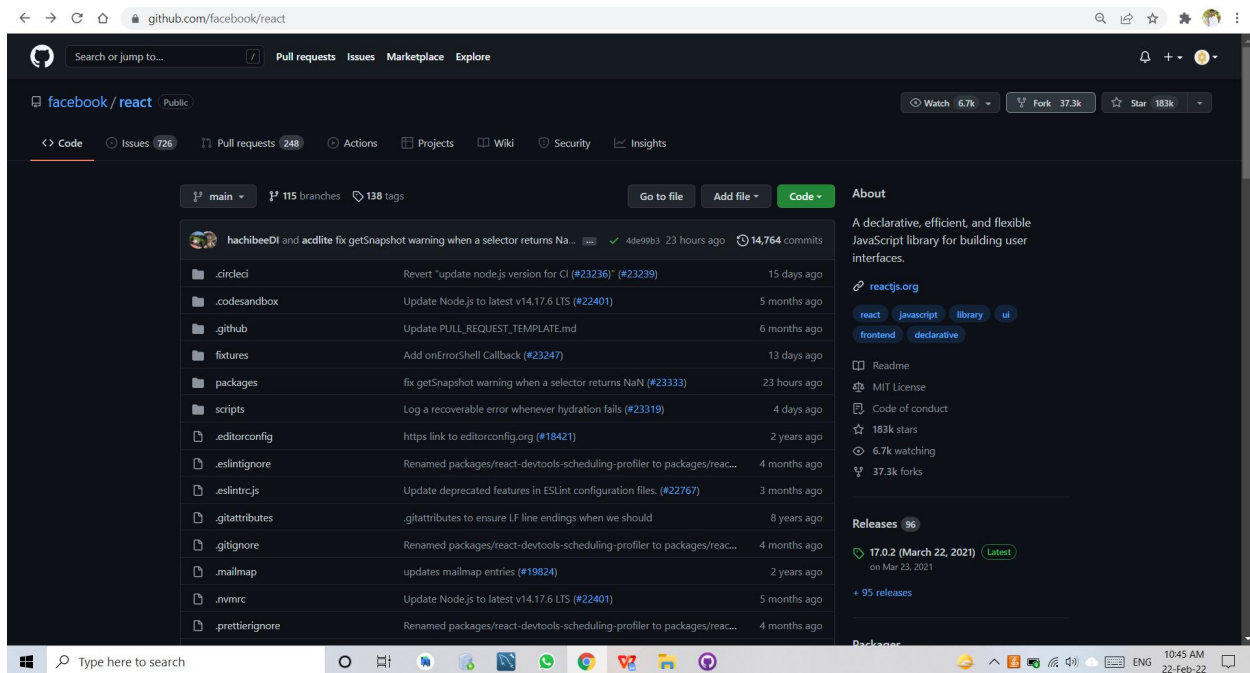
5. Perform merging of both branches

Answer :

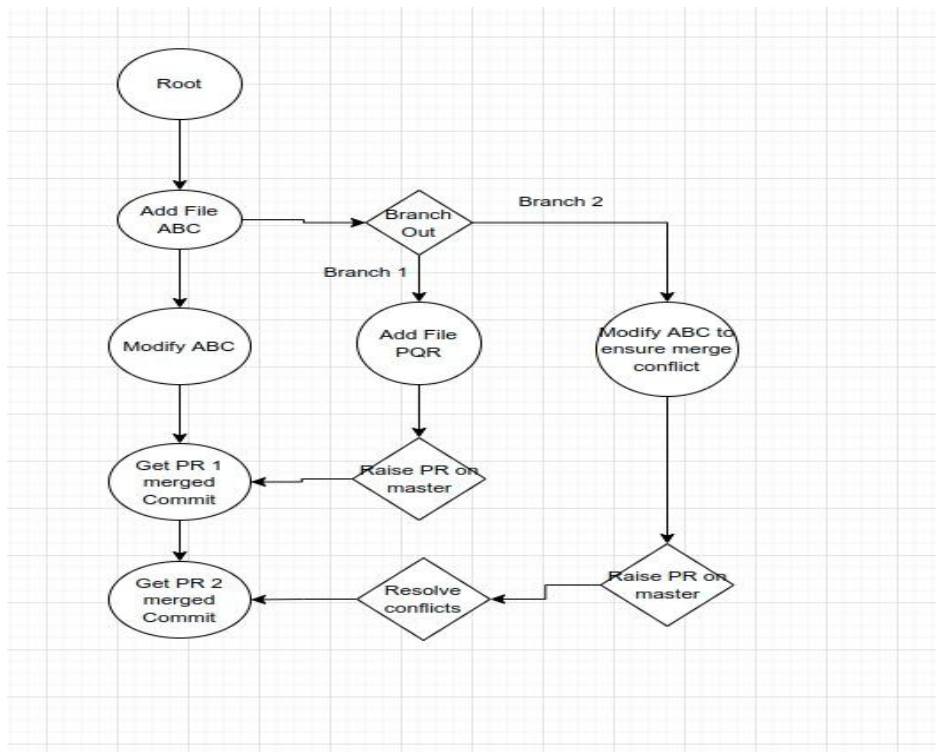


6. Perform Fork operation

Answer :

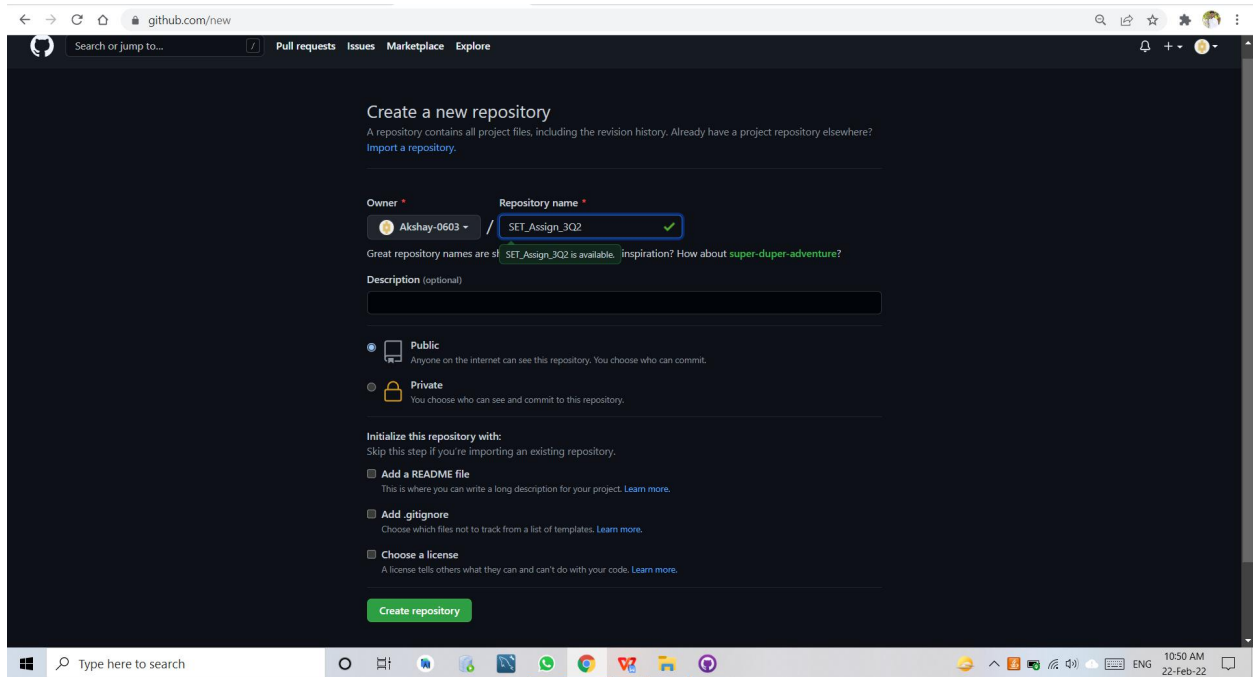


Q 2. For the diagram given below create a GitHub repository and perform operations given in the diagram. (Perform commit operations as given)(Add screenshots as an answer to this question)

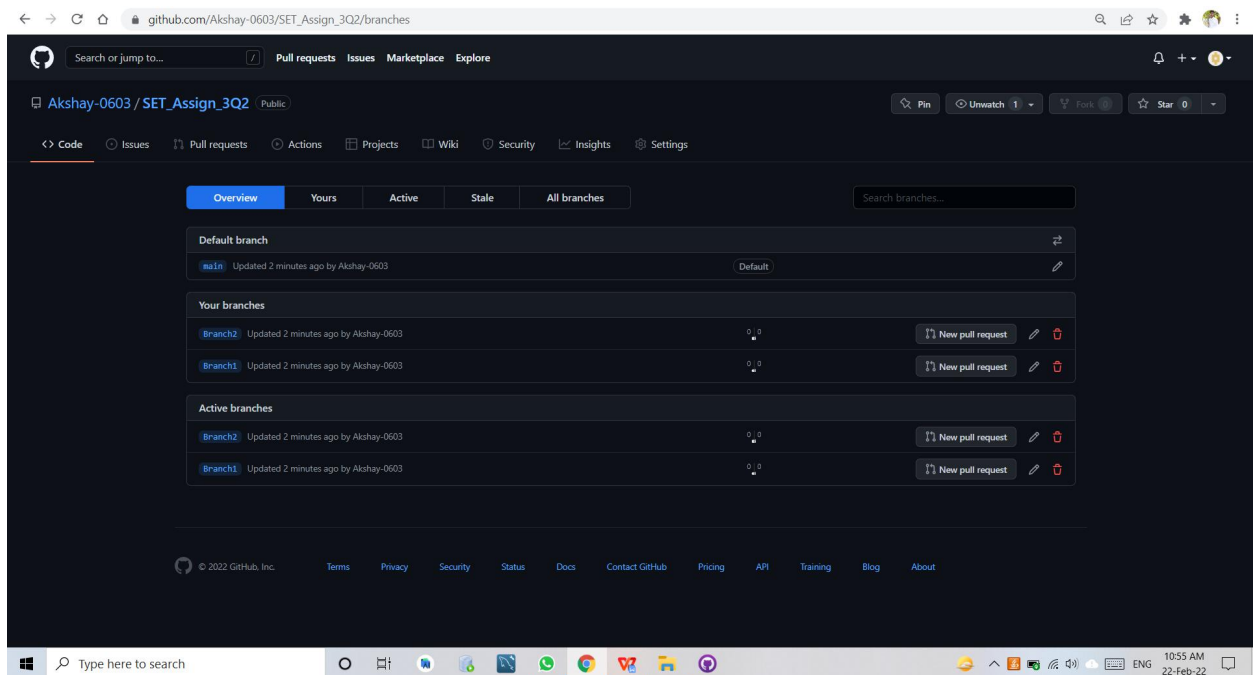


Answer :

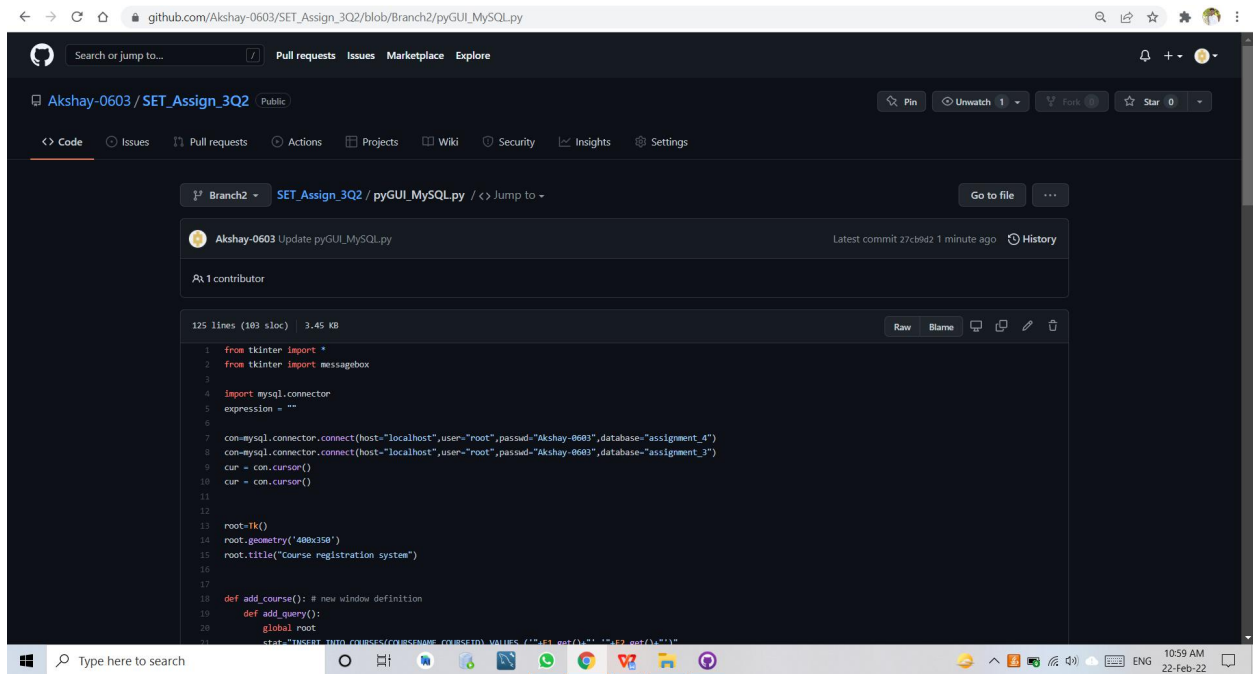
Firstly I have created Github repository and uploaded file 1 in it



Then I have Created 2 Branches in Main



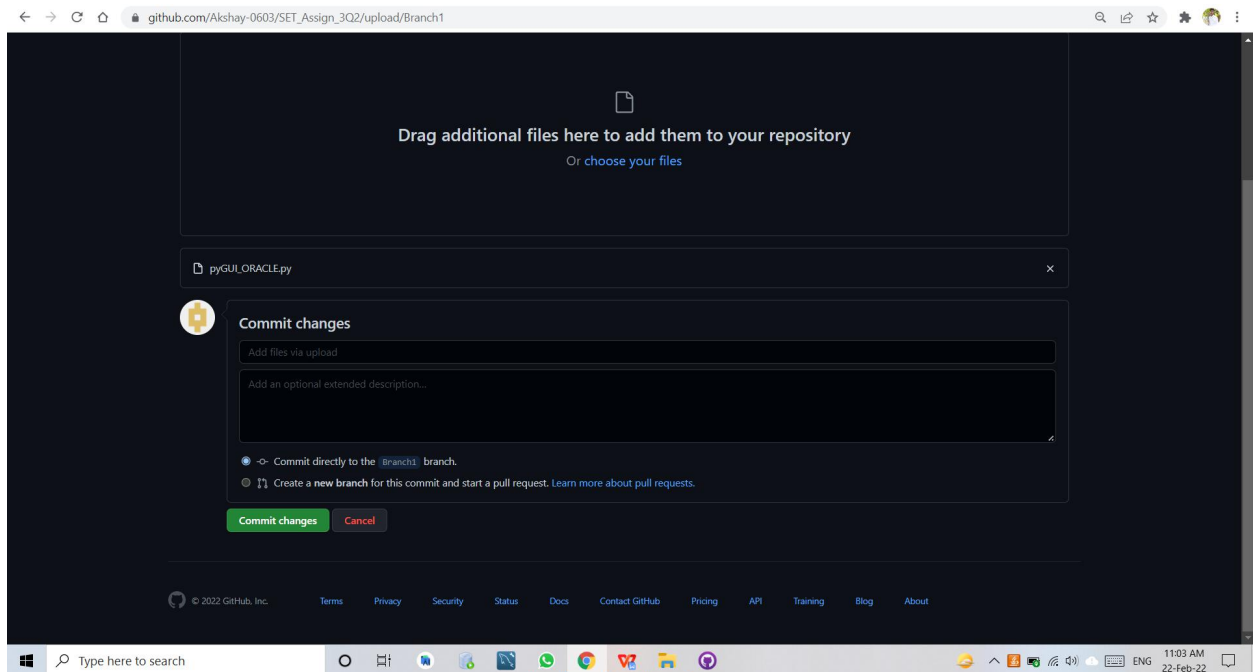
Then I have modified File 1



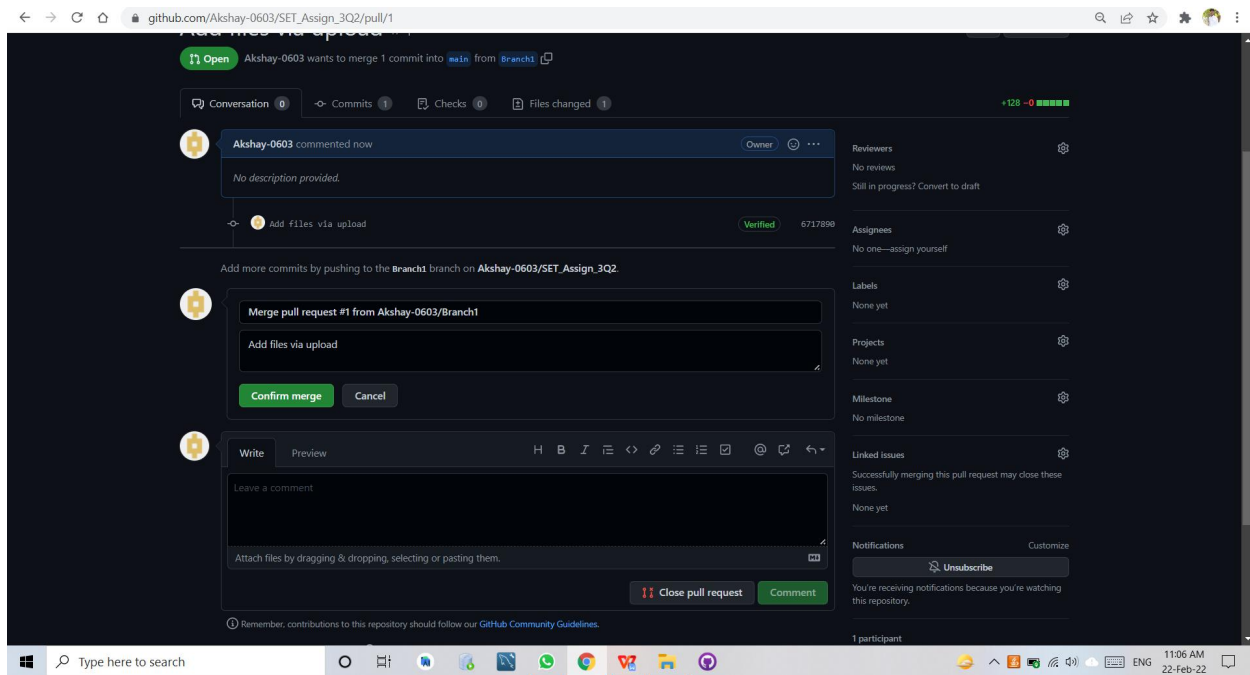
The screenshot shows a GitHub web interface for the repository 'Akshay-0603 / SET_Assign_3Q2'. The 'Code' tab is selected, showing the file 'pyGUI_MySQL.py' in the 'Branch2' branch. The file has been updated by 'Akshay-0603' 1 minute ago. The code is a Python script for a Tkinter application that connects to a MySQL database and displays a window titled 'Course registration system'. The code includes imports for Tkinter, messagebox, and MySQL connector, followed by database connection logic and a Tkinter window setup.

```
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
21         stat="INSERT INTO COURSES(COURSENAME,COURSEID) VALUES (('"+str(i)+"','"+str(j)+"'))"
```

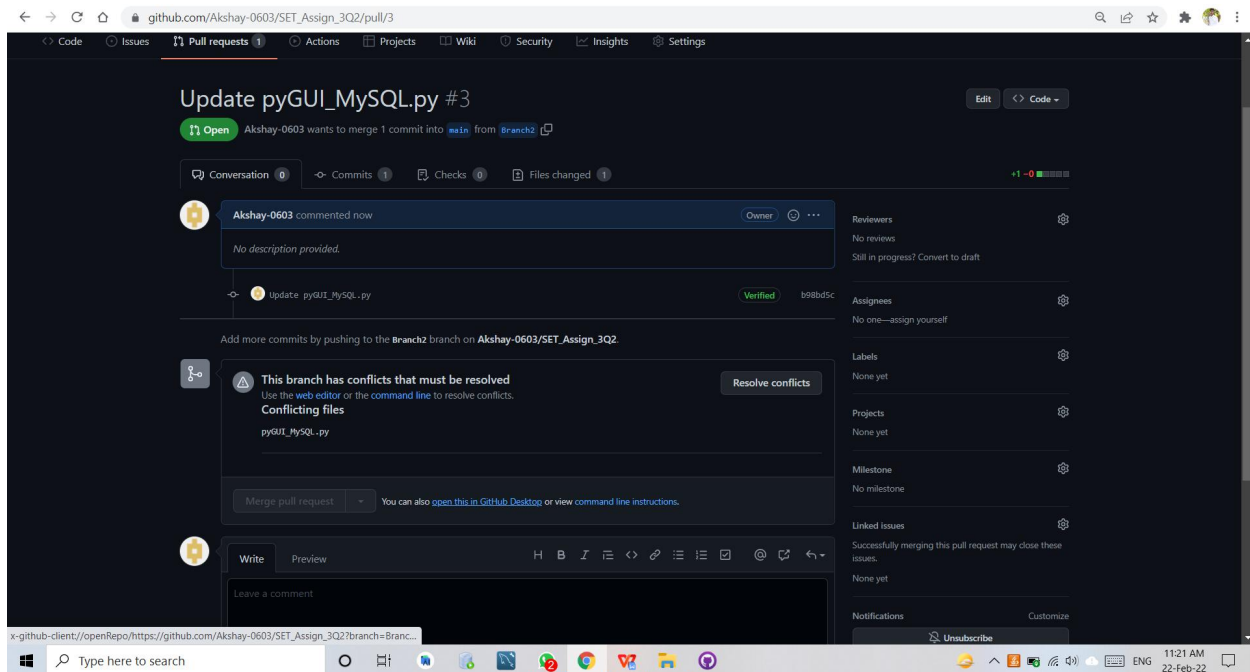
Then I have added file 2in Branch 1



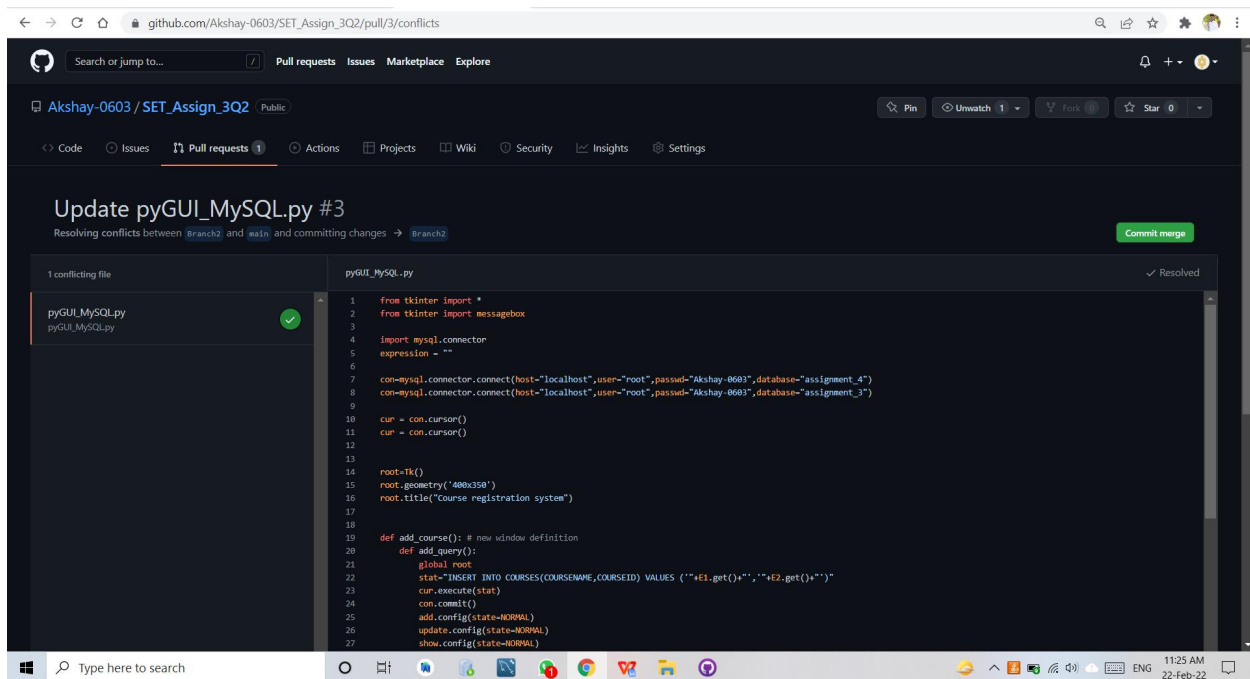
Then I have committed pull request merge



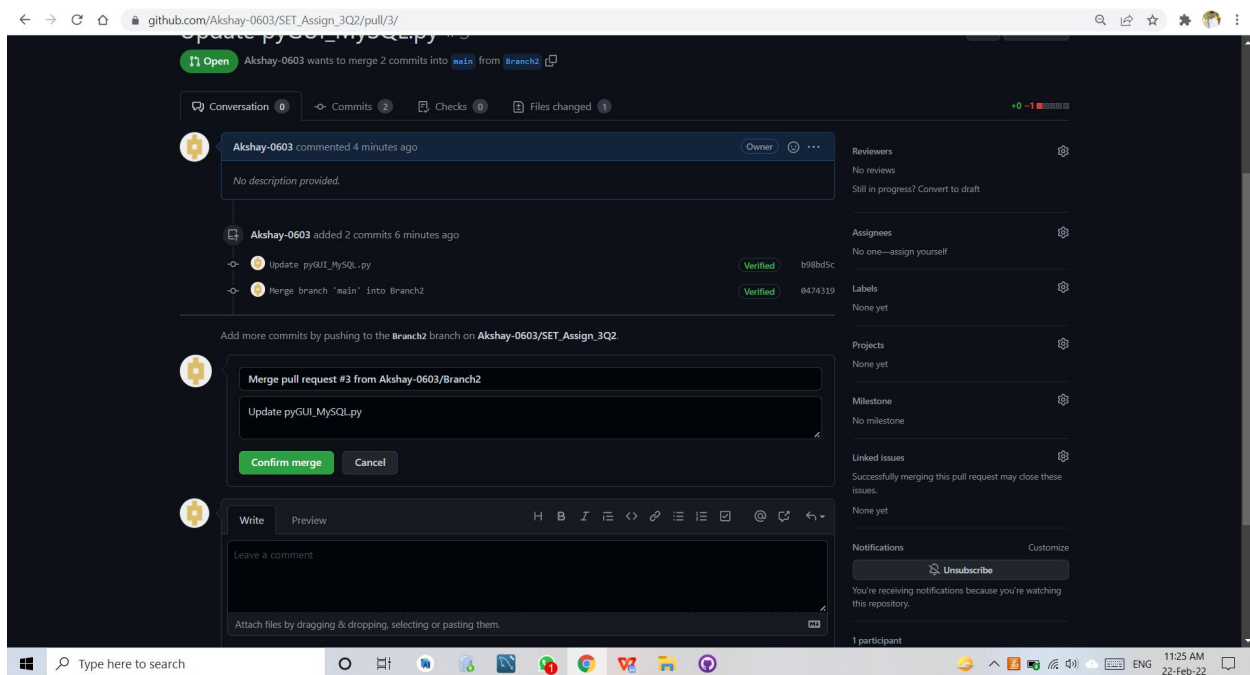
Then when Two merge request in main and its branch are getting conflicted



Then analysed the difference in the files



Then Resolved the merge conflict



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).

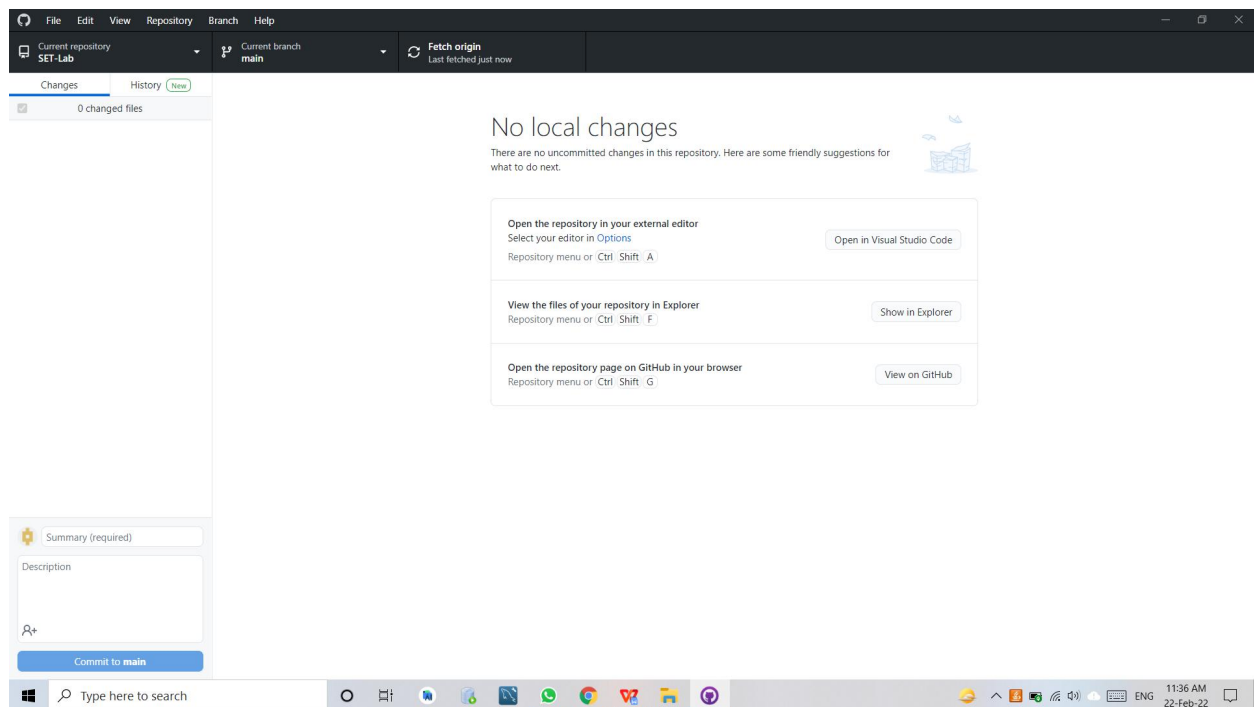
Answer :

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.

Accessing 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)

github.com/sidp1991/SETAssignment/pull/37

sidp1991 / SETAssignment

Public

Watch 1

Fork 33

Star 0

Code

Issues

Pull requests 35

Actions

Projects

Wiki

Security

Insights

Assignment 3 #37

Open

Akshay-0603 wants to merge 3 commits into sidp1991:main from Akshay-0603:main

Conversation 0

Commits 3

Checks 0

Files changed 2

+2,032 -2

Akshay-0603 commented 6 minutes ago

No description provided.

Akshay-0603 added 3 commits 12 minutes ago

Add files via upload

Verified

c8daa93

Merge pull request #1 from Akshay-0603/Akshay-0603-patch-1

Verified

3809bae

Update Student assignment updates.txt

Verified

8d1b04f

Add more commits by pushing to the main branch on Akshay-0603/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 L E < > P M U @

Reviewers

No reviews

Still in progress? Convert to draft

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Linked issues

Successfully merging this pull request may close these issues.

Type here to search

12-26 PM 22-Feb-22