



School of Computer Science, Engineering and Applications(SCSEA)
B.Tech FIY (CCSA)
Subject : Cloud Automation & Devops (P)

Name of the Student: Pratik.M.Rebari **PRN:** 20220802183

Title of Practicle : **1. Git workflow with branching, merging, and pull requests**

1. Create account on GitHub

The screenshot shows a GitHub profile for a user named 'Prafull-27'. The profile picture is a blue and white geometric design. The bio area says 'You don't have any public repositories yet.' Below it, a contribution graph shows '0 contributions in the last year' with a grid of small squares. A tooltip explains the graph: 'This is your contribution graph. Your first square is for joining GitHub and you'll earn more as you make additional contributions. More contributions means a higher contrast square color for that day. Over time, your chart might start looking something like this.' A link 'Read the Hello World guide' is provided. The top navigation bar includes 'Overview', 'Repositories', 'Projects', 'Packages', and 'Stars'.

2. Then Go to Repositories and Create New Repository

The screenshot shows the 'Create a new repository' wizard on GitHub. Step 1: General. The owner is set to 'Prafull-27'. The repository name is 'My-Repo', with a note that it is available. The description is 'LAB-1'. Step 2: Configuration. The visibility is set to 'Public'. Other options include 'Add README' (off), 'Add .gitignore' (No .gitignore), and 'Add license' (No license). A green 'Create repository' button is at the bottom.



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3. Now Clone This repository with Your system (ec2-instance).

```
$ git clone https://github.com/Prafull-27/My-Repo.git
```

```
ec2-user@ip-172-31-78-23:~$ git clone https://github.com/Prafull-27/My-Repo.git
Cloning into 'My-Repo'...
warning: You appear to have cloned an empty repository.
[ec2-user@ip-172-31-78-23:~]$ |
```

4. Now our pwd to repository .

```
[ec2-user@ip-172-31-78-23:~]$ cd My-Repo/
[ec2-user@ip-172-31-78-23:My-Repo]$ |
```

5. Now Create New Branch.

```
[ec2-user@ip-172-31-78-23:My-Repo]$ git checkout -b feature-branch
Switched to a new branch 'feature-branch'
[ec2-user@ip-172-31-78-23:My-Repo]$ |
```

6. Make changes in your branch:

Edit or create any file.

```
[ec2-user@ip-172-31-78-23:My-Repo]$ echo "Hello Git Workflow" > file.txt
[ec2-user@ip-172-31-78-23:My-Repo]$ cat file.txt
Hello Git Workflow
[ec2-user@ip-172-31-78-23:My-Repo]$ |
```

7. Add and commit your changes

```
[ec2-user@ip-172-31-78-23:My-Repo]$ git commit -m "Added file.txt in feature branch"
[feature-branch (root-commit) 376062c] Added file.txt in feature branch
  Committer: EC2 Default User <ec2-user@ip-172-31-78-23.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
```

```
git config --global --edit
```

After doing this, you may fix the identity used for this commit with:

```
git commit --amend --reset-author
```

```
1 file changed, 1 insertion(+)
create mode 100644 file.txt
[ec2-user@ip-172-31-78-23:My-Repo]$ |
```



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8. Push your branch to GitHub

```
[ec2-user@ip-172-31-78-23 My-Repo]$ git push -u origin feature-branch
Username for 'https://github.com': Prafull-27
Password for 'https://Prafull-27@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 263 bytes | 263.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Prafull-27/My-Repo.git
 * [new branch]      feature-branch -> feature-branch
branch 'feature-branch' set up to track 'origin/feature-branch'.
[ec2-user@ip-172-31-78-23 My-Repo]$ ls
file.txt
```

9. Create Pull Request (PR)

Go to your GitHub repo

The screenshot shows a GitHub repository named "My-Repo". The "Code" tab is selected. A recent commit from "EC2 Default User" is visible, adding a file named "file.txt" to the "feature-branch". On the right side of the screen, there is a sidebar with sections for "About", "LAB-1", "Releases", and "Packages". The "About" section shows basic repository statistics: 0 stars, 0 watching, and 0 forks.

You will see a **Compare & Pull Request** button → click it

The screenshot shows the same GitHub repository "My-Repo" but with the "Pull requests" tab selected. A modal window titled "Label issues and pull requests for new contributors" is displayed, providing instructions for first-time contributors. Below the modal, there is a search bar and filter options. A prominent green "Compare & pull request" button is located at the top right of the main content area.



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Add a title and description

The screenshot shows the GitHub interface for creating a pull request. The user is on the 'My-Repo' page, specifically the 'Pull requests' section. A new pull request is being initiated from the 'feature-branch' to the 'main' branch. The title field contains 'LAB_1' and the description field contains 'This is LAB 1 of CAD'. The right sidebar lists various settings: no reviews, no assignees, no labels, no projects, no milestones, and no development. At the bottom, there's a note about using closing keywords in the description to automatically close issues.

Click Create Pull Request

The screenshot shows the completed pull request on the GitHub interface. The pull request has been created with the title 'LAB_1' and the description 'This is LAB 1 of CAD'. The right sidebar shows the same settings as before: no labels, no projects, no milestones, and no development. The bottom of the screen displays summary statistics: 1 commit, 1 file changed, and 1 contributor. A note at the bottom indicates that contributions should follow GitHub Community Guidelines.



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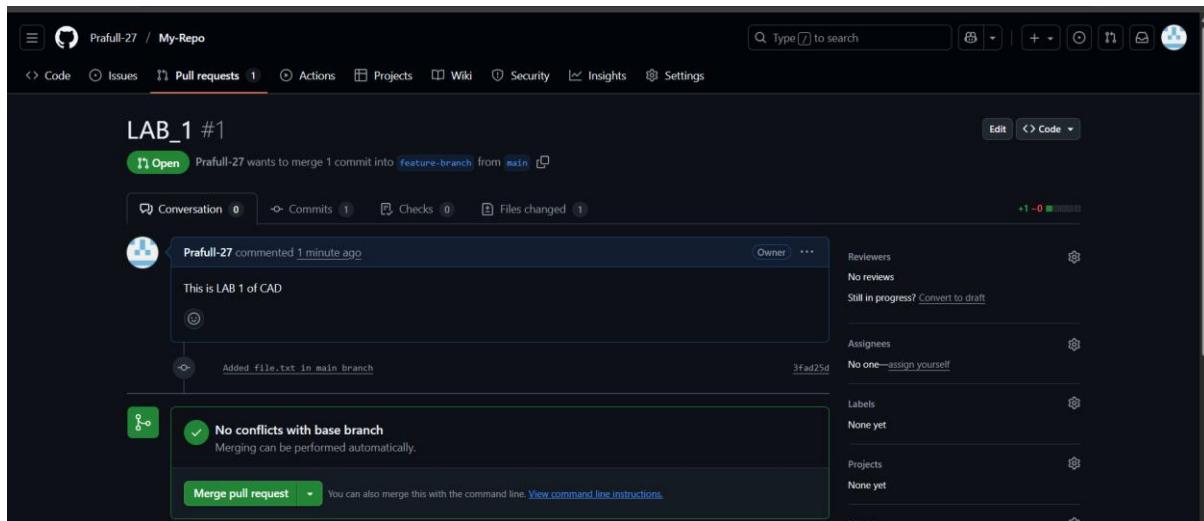
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10. Review and Merge PR

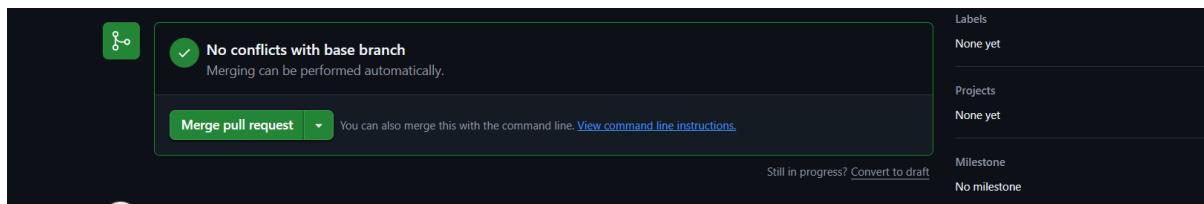
On GitHub:

1. Open the PR



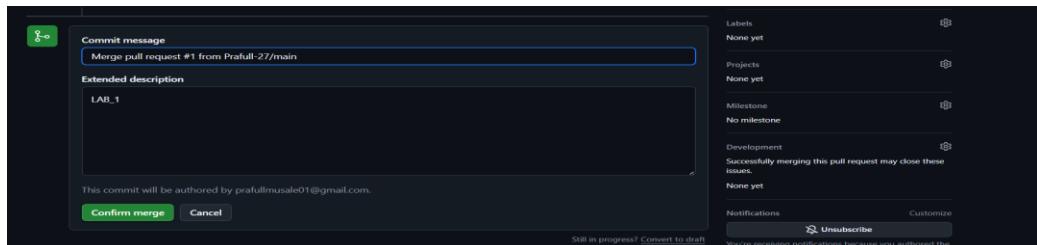
The screenshot shows a GitHub pull request page for a repository named 'My-Repo'. The pull request is titled 'LAB_1 #1' and is from the user 'Prafull-27'. It is merging a commit from the 'feature-branch' into the 'main' branch. The commit message is 'This is LAB 1 of CAD' and it added 'file.txt' to the main branch. There are 1 commit, 0 checks, and 1 file changed. A green box highlights 'No conflicts with base branch' and 'Merging can be performed automatically.' A green button says 'Merge pull request'.

2. Click Merge Pull Request



The screenshot shows the 'Merge pull request' step. It shows a green box with 'No conflicts with base branch' and 'Merging can be performed automatically.' A green button says 'Merge pull request'.

3. Then click Confirm Merge



The screenshot shows the 'Confirm merge' dialog box. It shows a 'Commit message' field with 'Merge pull request #1 from Prafull-27/main', an 'Extended description' field with 'LAB_1', and a note that the commit will be authored by prafullmusale01@gmail.com. Buttons for 'Confirm merge' and 'Cancel' are at the bottom.