

SCM-PROJECT File
BY

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TASK 1.1

PRACTICAL-1

AIM: Setting up linux git client.

Installing Git on Linux :

From your terminal, enter the following commands:

Step 1: install git using apt-get:

```
m2m-aksh@mind2minds-aksh:~$ sudo apt-get update  
[sudo] password for m2m-aksh: █
```

After Entering the command- '\$ sudo apt-get update' , enter the password of your computer.For installing git type the following command:

```
m2m-aksh@mind2minds-aksh:~$ sudo apt-get install git█
```

Step2: verify the installation was successful by typing git --version:

```
m2m-aksh@mind2minds-aksh:~$ git --version  
git version 2.34.1█
```

Step 3: Configure your Git username and email using the following commands. These details will be associated with any commits that you create:

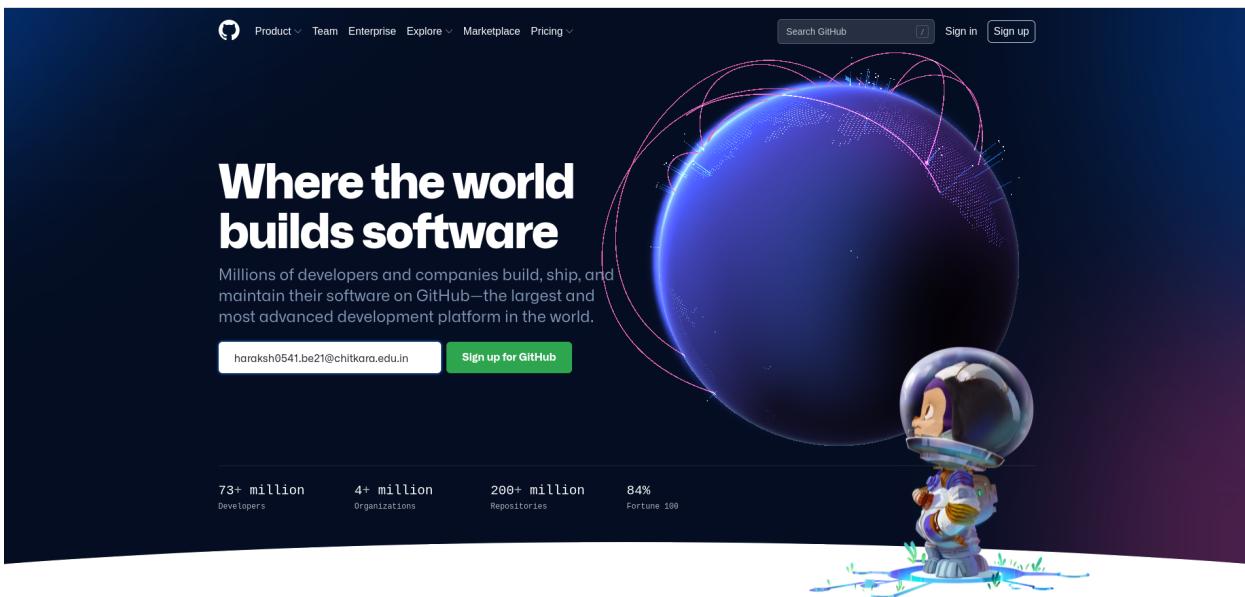
```
m2m-aksh@mind2minds-aksh:~$ git config --global user.name "haraksh singh"  
m2m-aksh@mind2minds-aksh:~$ git config --global user.email "haraksh0541.be21@chitkara.edu.in"
```

PRACTICAL-2

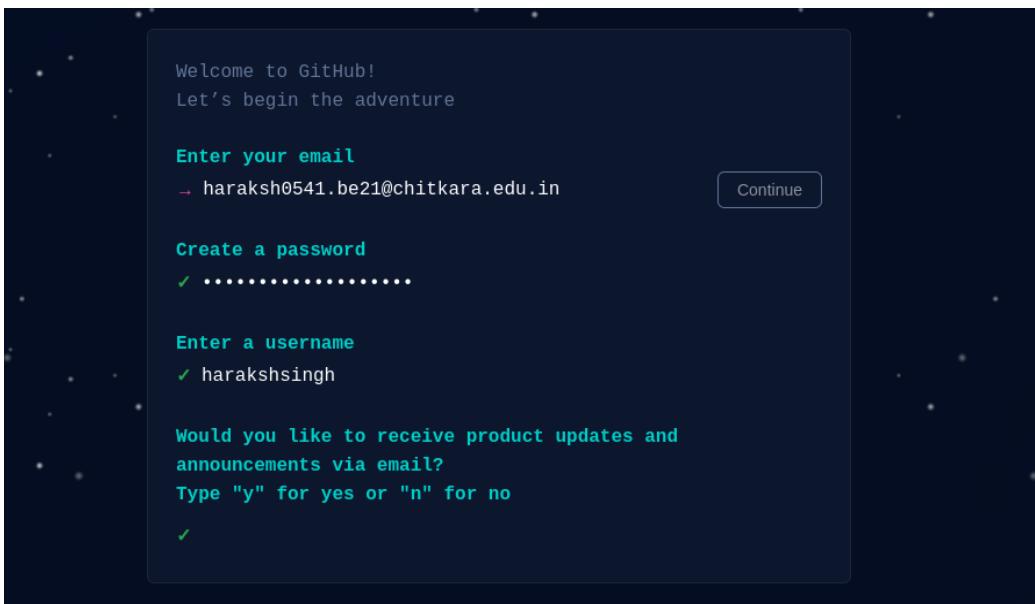
Aim: Setting up a github account.

Steps for creating an account: choose product according to one needs.verify your email, setup two factor authentication,,and view your profile.

1. To set a github account go to the link: <https://github.com> and follow the prompts.



2. In order to secure your github account use a strong and unique password.

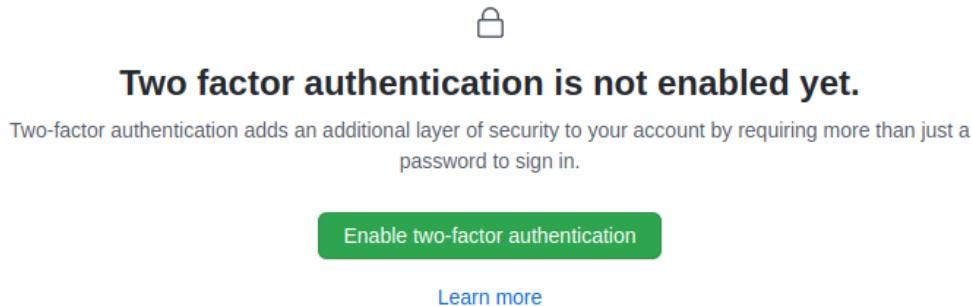


3. **choosing github product:** There are two options for github product-github free and github pro. Both have their own features. One can upgrade at any time. For detailed description of github plans refer to "<https://docs.github.com/en/enterprise-cloud@latest/get-started/learning-about-github/githubs-products>".

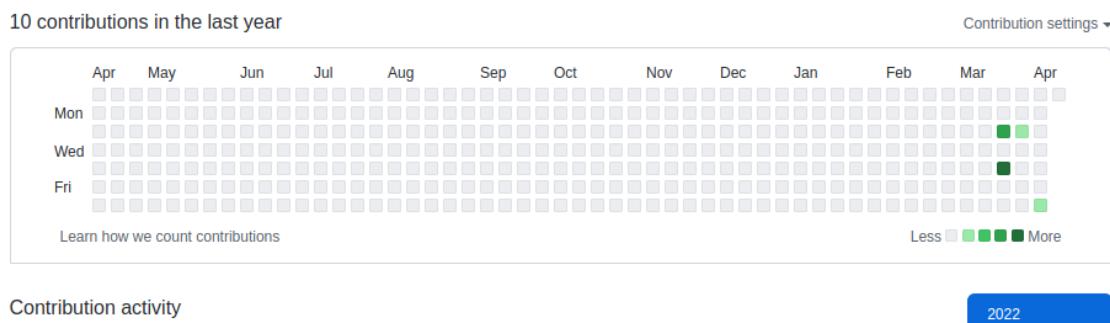
4. **verifying email:** Verify your email address and your account is ready.

5. **Configuring two-factor authentication:** Two-factor authentication adds an additional layer of security to your account by requiring more than just a password to sign in.

Two-factor authentication



6. **viewing your contribution graph in your profile:**



Graph tracks your contributions to the github platform datewise.

Repositories:

You can make many repositories and push your source code in that repository. In github Repository is a storage location for storing your files, source code and other resources. A repository is a main folder for each of your projects.

Organizations: you can make an organization in which you can have a team and repositories also and work in collaboration.

PRACTICAL-3

AIM: Generate log.

COMMANDS:

1. Basic git init

Syntax:

```
m2m-aksh@mind2minds-aksh:~/codeblocks$ git init
```

You have to run this command in the root folder of the files that you want to track. By running this command, an empty git repository is initialized. All other git commands cannot be executed if you do not have a git repository in the working directory. This is the first command for every new project. It can be used to convert an existing, unversioned project to a Git repository or initialize a new, empty repository.

2. Basic git status

syntax:

```
m2m-aksh@mind2minds-aksh:~/codeblocks$ git status
```

The git status command displays the state of the working directory and the staging area. It lets you see which changes have been staged., which haven't and which aren't tracked by git. Status output does not show any information regarding the committed project history.

3. Basic git add command

syntax:

```
m2m-aksh@mind2minds-aksh:~/codeblocks$ git add array-1.cpp
```

The git add command adds a change in the working directory to the staging area. It tells git that you want to include updates to a particular file in the next commit. However, git add doesn't affect the repository in any significant way—changes are not actually recorded until you run git commit.

```
m2m-aksh@mind2minds-aksh:~/codeblocks$ git add array-1.cpp
m2m-aksh@mind2minds-aksh:~/codeblocks$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   array-1.cpp

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    2d-array.cpp
    Untitled1
    Untitled1.cpp
    Untitled1.o
    array-1
    array-1.o
    assignment-1
    assignment-1.cpp
    assignment-1.o
    assignment-2
    assignment-2.cpp
```

4. Basic git commit

Syntax:

```
$ git commit -m "message for commit"
```

The git commit command captures a snapshot of the project's currently staged changes. Committed snapshots can be thought of as "safe" versions of a project—git will never change them unless you explicitly ask it to. Prior to the Execution of git commit, the git add command is used to promote or 'stage' changes to the project that will be stored in a commit. These two commands git commit and git add are two of the most frequently used.

5. Basic git log

Git log command is one of the most common commands of git. It is the most useful command for git. Every time you need to check the history, you have to use the git log command. The basic git log command will display the most recent commits and the status of the head. It will be used as:

```
m2m-aksh@mind2minds-aksh:~/codeblocks$ git log
commit be936ee067562203e504490d55214db758614ac9 (HEAD -> main, origin/main)
Author: haraksh singh <haraksh0541.be21@chitkara.edu.in>
Date:   Tue Mar 22 14:44:56 2022 +0530

  git array-1.cpp
m2m-aksh@mind2minds-aksh:~/codeblocks$ █
```

PRACTICAL-4

AIM: Create and visualize branches in git

How to create branches?

The main branch in git is called master branch. But we can make branches out of this main master branch. All the files present in master can be shown in branch but the files which are created in branch are not shown in master branch. We also can merge both the parent(master) and child (other branches).

1. For creating a new branch: git branch "name of branch"
2. To check how many branches we have : git branch
3. To change the present working branch: git checkout "name of the branch"

Visualizing Branches:

To visualize, we have to create a new file in the new branch "activity" instead of the master branch. After this we have to do three step architecture i.e. working directory, staging area and git repository.

After this I have done the 3 Step architecture which is tracking the file, sending it to the staging area and finally we can rollback to any previously saved version of this file.

After this we will change the branch from activity1 to master, but when we switch back to master branch the file we created i.e "hello" will not be there. Hence the new file will not be shown in the master branch. In this way we can create and change different branches. We can also merge the branches by using the git merge command.

In this way we can create and change different branches. We can also merge the branches by using git merge command.

```
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ git branch activity
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ git branch
  activity
* master
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ git checkout activity
Switched to branch 'activity'
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ git status
On branch activity
nothing to commit, working tree clean
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ git branch
* activity
  master
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ touch hello
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ git status
On branch activity
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    hello

nothing added to commit but untracked files present (use "git add" to track)
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ git add .
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ git commit -m "new file added in activity branch"
[activity 0c8694b] new file added in activity branch
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 hello
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ git log
commit 0c8694b0ad4dc18b2e9d8044f24199e668bbab0 (HEAD -> activity)
Author: haraksh singh <haraksh0541.be21@chitkara.edu.in>
Date:   Sun Apr 10 23:44:26 2022 +0530

  new file added in activity branch

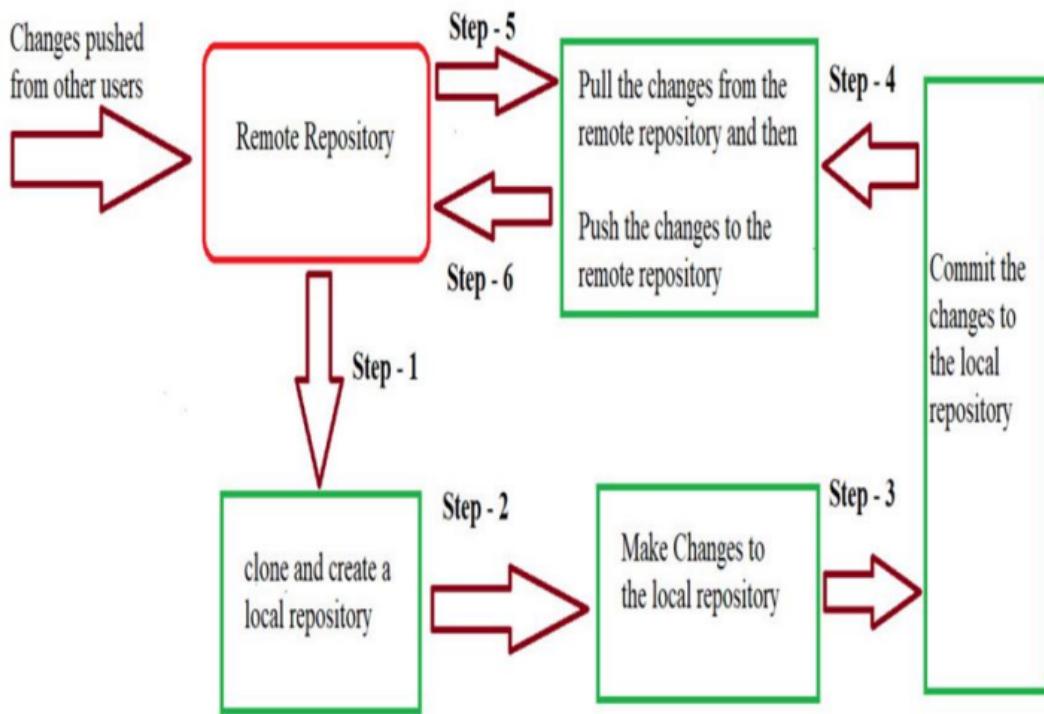
commit 659ee49114bd2778371121b66de6ec3d8ea58030 (master)
Author: haraksh singh <haraksh0541.be21@chitkara.edu.in>
Date:   Sun Apr 10 23:40:39 2022 +0530

  master branch
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ git branch
* activity
  master
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ ls
2d-array.cpp array-1.cpp assignment-2.cpp assignment-3.cpp hello
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ git checkout master
Switched to branch 'master'
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ ls
2d-array.cpp array-1.cpp assignment-2.cpp assignment-3.cpp
m2m-aksh@mind2minds-aksh:~/various-git-branch-demo$ █
```

PRACTICAL-5

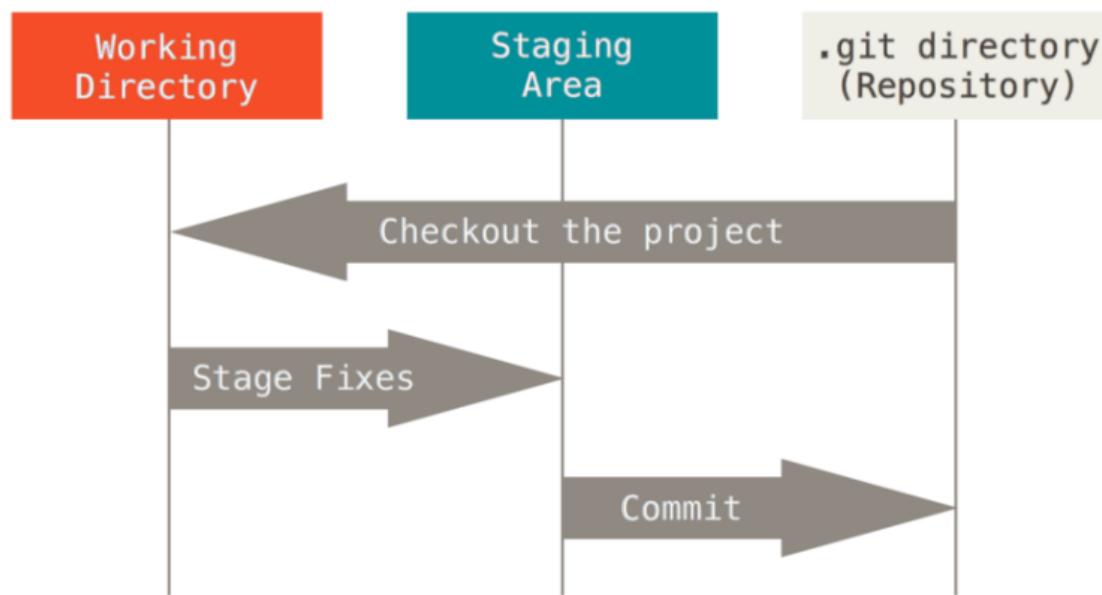
Aim: Git lifecycle description

Git is used in our day-to-day work, we use Git for keeping a track of our files, working in a collaboration with our team, to go back to our previous code versions if we face some error. Git helps us in many ways. Let us look at the Lifecycle description that git has and understand more about its life cycle. Let us see some of the basic steps that we have to follow while working with Git-



- **Step 1**- We first clone any of the code residing in the remote repository to make our own local repository.
- **Step 2**- We edit the files that we have cloned in our local repository and make the necessary changes in it.
- **Step 3**- We commit our changes by first adding them to our staging area and committing them with a commit message.
- **Step 4 and Step 5**- We first check whether there are any of the changes done in the remote repository by some other users and we first pull those changes.
- **Step 6**- If there are no changes we push our changes to the remote repository and we are done with our work. Experiment No. 05 Page 15 of 16 CS181 When a directory is made a git

repository, there are mainly 3 states which make the essence of Git version Control System. The three states are



1. Working Directory

Whenever we want to initialize our local project directory to make a Git repository, we use the git init command. After this command, git becomes aware of the files in the project although it does not track the files yet. The files are further tracked in the staging area.

2. Staging Area

Now, to track files the different versions of our files we use the command git add. We can term a staging area as a place where different versions of our files are stored. git add command copies the version of your file from your working directory to the staging area. We can, however, choose which files we need to add to the staging area because in our working directory there are some files that we don't want to get tracked, examples include node modules, temporary files, etc. Indexing in Git is the one that helps Git in understanding which files need to be added or sent. You can find your staging area in the .git folder inside the index file. git add <file name>.

3. Git Directory

Now since we have all the files that are to be tracked and are ready in the staging area, we are ready to commit our files using the git commit command. Commit helps us in keeping the track of the metadata of the files in our staging area. We specify every commit with a message which tells what the commit is about. Git preserves the information or the metadata of the files that were committed in a Git Directory which helps Git in tracking files; basically it preserves the photocopy of the committed files. Commit also stores the name of the author who did the commit, files that are committed, and the date at which they are committed along with the commit message. `git commit -m <message>`

TASK 1.2

1. Add collaborators on Github Repository.

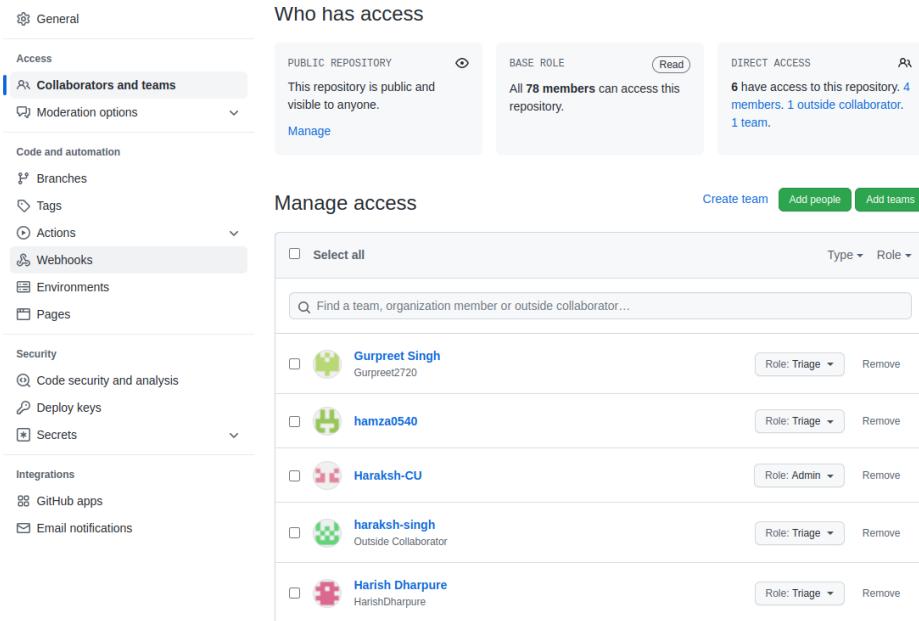
Step-1: Go to the settings of your repository.

The screenshot shows a GitHub repository page for 'Group08-Chitkara-University / 2110990541'. The repository is public. The commit history lists several commits made by 'Haraksh-CU' over the past 8 days. On the right side, there are sections for 'About', 'Releases', 'Packages', and 'Contributors'. The 'About' section notes 'No description, website, or topics provided.' The 'Contributors' section lists four contributors: Haraksh-CU, HarishDharpure, hamza0540, and Gurpreet2720. A button at the bottom says 'Add a README'.

Step-2: In settings, under the access section, click on collaborators and teams.

The screenshot shows the 'Who has access' section of the GitHub repository settings. Under the 'Access' tab, it says 'DIRECT ACCESS' with 6 members. Below this, a modal window titled 'Add people to 2110990541' is open, showing search results for 'haraksh-' which include 'Haraksh-CU' and 'haraksh-singh'. A green button at the bottom of the modal says 'Select a member above'. The background shows other repository settings like 'Code and automation', 'Management', and 'Security'.

For adding collaborators , go to the settings of that repository, and under the **Access** section click on **Collaborators and teams** option.Then click on **Add people** button
Then a pop-up box will appear as shown in the image above. Write the user-name of the person in the search box whom you want to add as a collaborator for your repository.

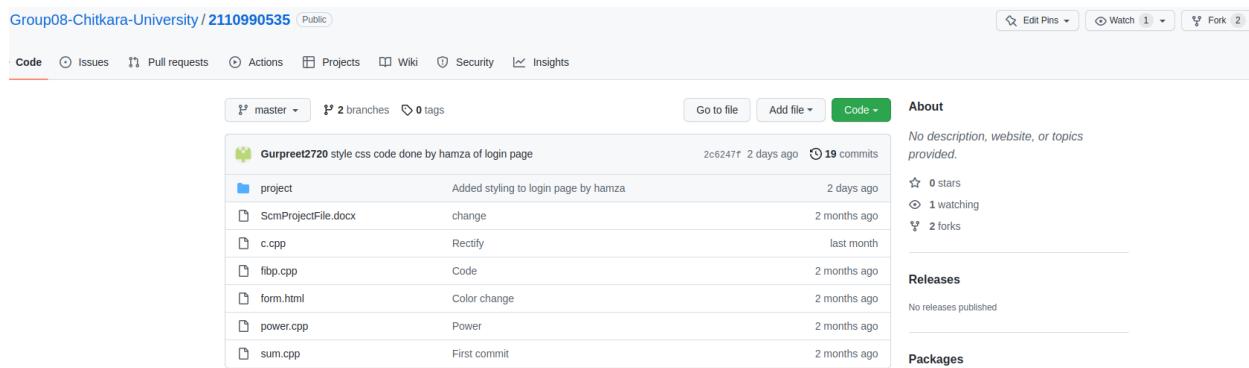


The screenshot shows the 'General' settings page for a GitHub repository. On the left, there's a sidebar with various options like 'Access', 'Code and automation', 'Security', 'Integrations', etc. The 'Access' section is expanded, showing 'Collaborators and teams' is selected. The main area is divided into two sections: 'Who has access' and 'Manage access'. The 'Who has access' section shows that the repository is public and 78 members have access. The 'Manage access' section shows a list of users with their roles: Gurpreet Singh (Triage), hamza0540 (Triage), Haraksh-CU (Admin), haraksh-singh (Outside Collaborator), and Harish Dhpure (Triage). There are buttons to 'Create team', 'Add people', and 'Add teams'.

2. Fork and Commit.

Create fork:

step1- go to the repository you want to fork:



The screenshot shows a GitHub repository page for 'Group08-Chitkara-University / 2110990535'. The repository has 2 branches and 0 forks. The code tab is selected, showing a list of files: project (Added styling to login page by hamza), ScmProjectFile.docx (change), c.cpp (Rectify), fibp.cpp (Code), form.html (Color change), power.cpp (Power), and sum.cpp (First commit). To the right, there's an 'About' section with a note about no description, website, or topics provided, and stats for 0 stars, 1 watching, and 2 forks. There are also sections for 'Releases' (No releases published) and 'Packages'.

Step2-Click on fork button present on the top-right corner of page, then a pop-up appears like below:

Create a new fork

A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)

Owner * Repository name *

Haraksh-CU / 2110990535 !

By default, forks are named 2110990535 The repository 2110990535 already exists on this account. Please use the name to distinguish it further.

Description (optional)

(i) You are creating a fork in your personal account.

Create fork

Select the owner account where you want your forked repository to land. Then enter the repository name that you want to fork. Click on the create fork button. After completing the above steps a forked repository of the same is created on your account.

Haraksh-CU / 2110990535 Public
forked from Group08-Chitkara-University/2110990535

Code Pull requests Actions Projects Wiki Security Insights Settings

master 2 branches 0 tags Go to file Add file Code

This branch is up to date with Group08-Chitkara-University/2110990535:master. Contribute Fetch upstream

Gurpreet2720 style css code done by hamza of login page		2c6247f 2 days ago 19 commits
project	Added styling to login page by hamza	2 days ago
ScmProjectFile.docx	change	2 months ago
c.cpp	Rectify	last month
fibp.cpp	Code	2 months ago
form.html	Color change	2 months ago
power.cpp	Power	2 months ago
sum.cpp	First commit	2 months ago

Help people interested in this repository understand your project by adding a README. Add a README

Cloning the forked repository in my system and making commits:

```
i2m-aksh@mind2minds-aksh:~/gurpreet-project$ git clone https://github.com/Haraksh-CU/2110990535.git
Cloning into '2110990535'...
remote: Enumerating objects: 80, done.
remote: Counting objects: 100% (80/80), done.
remote: Compressing objects: 100% (68/68), done.
remote: Total 80 (delta 17), reused 72 (delta 9), pack-reused 0
Receiving objects: 100% (80/80), 19.89 MiB | 10.84 MiB/s, done.
Resolving deltas: 100% (17/17), done.
i2m-aksh@mind2minds-aksh:~/gurpreet-project$ ls
2110990535
i2m-aksh@mind2minds-aksh:~/gurpreet-project$ cd 2110990535
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535$ ls
t.cpp fibp.cpp form.html power.cpp project ScmProjectFile.docx sum.cpp
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535$ cd project
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project$ ls
ko.jpg login.html main
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project$ cd main
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project/main$ ls
blooParathanew.jpg Delhinew.jpg mangonew.jpg
mrnitsarnew.jpg food.jpg margheritanew.jpg
og1.jpg gobhiparathanew.jpg onionnew.jpg
og.jpg Haryananew.jpg Punjabnew.png
chandigarhnew.jpg Hinachalnew.jpg smiley.gif
cheeseburgernew.jpg img Strawberryshakenew.jpg
chocolateshakenew.jpg index_1.html style.css
contact.jpg index.html veggieburgernew.jpg
css ko.jpg
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project/main$ gedit index_1.html
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project/main$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   index_1.html

no changes added to commit (use "git add" and/or "git commit -a")
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project/main$ git commit -a -m "index_1.html file in main folder which is a sub-folder of project folder is modified by Haraksh Singh"
[master 98bfaa9] index_1.html file in main folder which is a sub-folder of project folder is modified by Haraksh Singh
 1 file changed, 60 insertions(+), 2 deletions(-)
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project/main$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project/main$ git push
Username for 'https://github.com': Haraksh-CU
Password for 'https://Haraksh-CU@github.com':
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
```

For making commits in the above forked repository, first we clone the repository in our local system by typing the command “**git clone <https://github.com/Haraksh-CU/2110990535.git>**”.

Then we look at the contents of the repository and edit one file named **index_1.html**. After that we type the command “**git status**”, and it shows that the index_1.html file is modified and it is unstaged.

So we write the following command to stage and commit the file in the master branch. There are two branches, the other is the activity branch but the file is committed in the master branch of the repository and the command is “**Git commit -a -m ‘message’**”. After typing this command the file gets committed in the master branch. Now to publish these local commits to the remote forked repository we type the command “**git push**”.

The image of forked repository after pushing local commits is :

The screenshot shows a GitHub repository page for 'Haraksh-CU / 2110990535'. The repository is public and forked from 'Group08-Chitkara-University/2110990535'. The 'Code' tab is selected, showing the 'master' branch. A tooltip on the right side of the commit list indicates that the local branch is '1 commit ahead' of the upstream 'Group08-Chitkara-University:master'. The commit list includes several files like 'index.html', 'project', 'ScmProjectFile.docx', etc., with their respective commit details. A prominent green button labeled 'Open pull request' is visible. The right sidebar contains sections for 'About', 'Releases', 'Packages', and 'Languages'.

It says that “**This branch is one commit ahead of Group08-chitkara-University:master**”. We can see that our local commits are successfully published to the remote forked repository.

3. Merge and Resolve conflicts created due to own Activity and Collaborators activity:

There are a few steps that could reduce the steps needed to resolve merge conflicts in Git.

1. The easiest way to resolve a conflicted file is to open it and make any necessary changes.
2. After editing the file, we can use the git add command to stage the new merged content.
3. The final step is to create a new commit with the help of the git commit command.
4. Git will create a new merge commit to finalize the merge

Let us now look into the Git commands that may play a significant role in resolving conflicts.

```
Microsoft@DESKTOP-S0SP3P1 MINGW64 ~
$ cd D:
Microsoft@DESKTOP-S0SP3P1 MINGW64 /d
$ mkdir hello
Microsoft@DESKTOP-S0SP3P1 MINGW64 /d
$ cd hello
Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello
$ git init
Initialized empty Git repository in D:/hello/.git/
Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ touch text1.txt

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git add origin https://github.com/Japleen0667/conflicts-repo.git
fatal: pathspec 'origin' did not match any files

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git remote add origin https://github.com/Japleen0667/conflicts-repo.git

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git push origin master
error: src refspec master does not match any
error: failed to push some refs to 'https://github.com/Japleen0667/conflicts-repo.git'

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git push -u origin master
error: src refspec master does not match any
error: failed to push some refs to 'https://github.com/Japleen0667/conflicts-repo.git'

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ vi text1.txt

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git add .
warning: LF will be replaced by CRLF in text1.txt.
The file will have its original line endings in your working directory

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git add .

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
```

```
Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git commit -m "first commit"
[master (root-commit) a918d0b] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 text1.txt

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 243 bytes | 60.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/Japleen0667/conflicts-repo/pull/new/master
remote:
To https://github.com/Japleen0667/conflicts-repo.git
 * [new branch]      master    -> master
branch 'master' set up to track 'origin/master'.

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git branch newhello

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git checkout newhello
Switched to branch 'newhello'

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (newhello)
$ vi text1.txt

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (newhello)
$ git add .
warning: LF will be replaced by CRLF in text1.txt.
The file will have its original line endings in your working directory

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (newhello)
$ git add .

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (newhello)
$ git commit -m "second commit"
[newhello dae142e] second commit
 1 file changed, 1 insertion(+), 1 deletion(-)

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (newhello)
$ git push -u origin newhello
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (5/5), 282 bytes | 282.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'newhello' on GitHub by visiting:
remote:   https://github.com/Japleen0667/conflicts-repo/pull/new/newhello
remote:
To https://github.com/Japleen0667/conflicts-repo.git
 * [new branch]      newhello -> newhello
branch 'newhello' set up to track 'origin/newhello'.
```

```
Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (newhello)
$ git push -u origin newhello
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (5/5), 282 bytes | 282.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'newhello' on GitHub by visiting:
remote:   https://github.com/Japleen0667/conflicts-repo/pull/new/newhello
remote:
To https://github.com/Japleen0667/conflicts-repo.git
 * [new branch]      newhello -> newhello
branch 'newhello' set up to track 'origin/newhello'.

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (newhello)
$ git checkout master
Switched to branch 'master'.
Your branch is up to date with 'origin/master'.

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ vi text1.txt

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git add .

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git commit -m "third commit"
[Master b4ab875] third commit
 1 file changed, 1 insertion(+), 1 deletion(-)

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git push -u origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), 278 bytes | 278.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Japleen0667/conflicts-repo.git
 * [new branch]      master    -> master
branch 'master' set up to track 'origin/master'.

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (master)
$ git checkout newhello
Switched to branch 'newhello'.
Your branch is up to date with 'origin/newhello'.

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/hello (newhello)
$ git pull origin master
From https://github.com/Japleen0667/conflicts-repo
 * branch            master      -> FETCH_HEAD
Auto-merging text1.txt
```

```

Microsoft®Windows® [Version 10.0.19041.1013]
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\japlear> git merge origin/main
Auto-merging text1.txt
CONFLICT (content): Merge conflict in text1.txt.
Automatic merge failed; fix conflicts and then commit the result.
PS C:\Users\japlear> git status
On branch main
Your branch is up-to-date with 'origin/main'.
nothing to commit, working tree clean
PS C:\Users\japlear> git merge origin/main
Auto-merging text1.txt
CONFLICT (content): Merge conflict in text1.txt.
Automatic merge failed; fix conflicts and then commit the result.
PS C:\Users\japlear> git status
On branch main
Your branch is up-to-date with 'origin/main'.
nothing to commit, working tree clean
PS C:\Users\japlear> git merge origin/main
Auto-merging text1.txt
CONFLICT (content): Merge conflict in text1.txt.
Automatic merge failed; fix conflicts and then commit the result.
PS C:\Users\japlear> git status
On branch main
Your branch is up-to-date with 'origin/main'.
nothing to commit, working tree clean
PS C:\Users\japlear> git add .
PS C:\Users\japlear> git commit -m "Merge branch 'main' of https://github.com/japlear0607/conflicts-repo into main"
[master e4ab090] Merge branch 'main' of https://github.com/japlear0607/conflicts-repo into main
 1 file changed, 1 insertion(+)
PS C:\Users\japlear> git push -u origin/main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 460 bytes | 460.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/japlear0607/conflicts-repo.git
   d8e142e..e4ab090  main...main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\japlear>

```

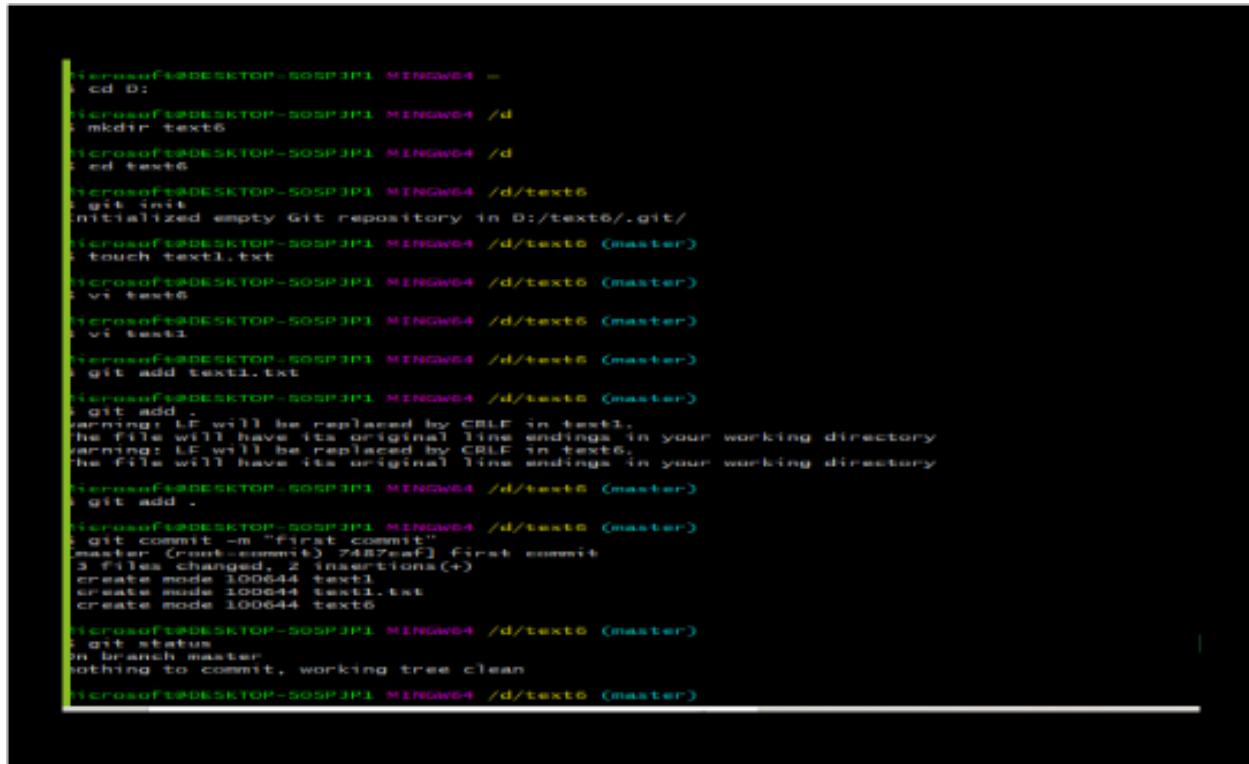


4. Git Reset and revert:-

Git reset is a powerful command that is used to undo local changes to the state of a Git repo. Git reset operates on "The Three Trees of Git". These trees are the Commit History (HEAD), the Staging Index, and the Working Directory.

The easiest way to undo the last Git commit is to execute the "git reset" command with the "-soft" option that will preserve changes done to your files.

Git reset –hard , which will completely destroy any changes and remove them from the local directory.



```
Microsoft®Windows®PowerShell®v1.0
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Windows\system32> cd D:
PS D:\> mkdir text6
PS D:\text6> git init
Initialized empty Git repository in D:/text6/.git/
PS D:\text6> touch text1.txt
PS D:\text6> vi text6
PS D:\text6> vi text1
PS D:\text6> git add text1.txt
PS D:\text6> git add .
warning: LF will be replaced by CRLF in text1.
the file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in text6.
the file will have its original line endings in your working directory
PS D:\text6> git commit -m "first commit"
[master (root-commit) 7487eaF] first commit
 3 files changed, 2 insertions(+)
 create mode 100644 text1
 create mode 100644 text1.txt
 create mode 100644 text6
PS D:\text6> git status
On branch master
nothing to commit, working tree clean
PS D:\text6>
```

```
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git reset --soft HEAD~1
fatal: ambiguous argument 'HEAD~1': unknown revision or path not in the working tree.
use '--' to separate paths from revisions, like this:
git <command> [<revision>...] -- [<file>...]
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: vi text1.txt
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: vi text1
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git add .
warning: LF will be replaced by CRLF in text1.
the file will have its original line endings in your working directory
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git add .
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git commit -m "second commit"
[master a6bab34] second commit
 1 file changed, 1 insertion(+)
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git status
On branch master
nothing to commit, working tree clean
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git reset --soft HEAD~1
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   text1

Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: notepad text1
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git add .
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git commit -m "second commit"
```

```
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git commit -m "second commit"
[master fc546b9] second commit
 1 file changed, 1 insertion(+)
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git reset --hard HEAD~1
HEAD is now at 7487caf first commit
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: notepad text1
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: touch text2.bin
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: touch .gitignore
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: vi .gitignore
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: vi text2.bin
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .gitignore

nothing added to commit but untracked files present (use "git add" to track)
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: cat text2.bin
Hello I am writing in text2
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .gitignore

nothing added to commit but untracked files present (use "git add" to track)
Microsoft@DESKTOP-S0SPJPI MINGW64 /d/text6 (master)
: git add .
warning: LF will be replaced by CRLF in .gitignore.
```

```
git status
in branch master
untracked files:
  (use "git add <file>..." to include in what will be committed)
    .gitignore

nothing added to commit but untracked files present (use "git add" to track)

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/text6 (master)
$ cat text2.bin
Hello I am writing in text2

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/text6 (master)
$ git status
in branch master
untracked files:
  (use "git add <file>..." to include in what will be committed)
    .gitignore

nothing added to commit but untracked files present (use "git add" to track)

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/text6 (master)
$ git add .
warning: LF will be replaced by CRLF in .gitignore.
the file will have its original line endings in your working directory

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/text6 (master)
$ git add .

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/text6 (master)
$ git commit -m "third commit"
[master 21bb0dd] third commit
 1 File changed, 1 insertion(+)
 create mode 100644 .gitignore

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/text6 (master)
$ git status
in branch master
nothing to commit, working tree clean

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/text6 (master)
$ vi text2.bin

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/text6 (master)
$ git status
in branch master
nothing to commit, working tree clean

Microsoft@DESKTOP-S0SP3P1 MINGW64 /d/text6 (master)
$
```

TASK 2

Team-members:

1.

S.no	Name	Maintainer of Repository
1	Hamza	2110990540
2	Harish Dharpure	2110990549
3	Gurpreet Singh	2110990535
4	Haraksh Singh	2110990541

2.

S.no	Name	Repository-owned	Collaborators of Repository
1	Hamza	2110990540	HarishDharpure, Gurpreet2720, Haraksh-CU
2	Harish Dharpure	2110990549	Hamza0540, Gurpreet2720, Haraksh-CU
3	Gurpreet Singh	2110990535	HarishDharpure, hamza0540, Haraksh-CU
4	Haraksh Singh	2110990541	HarishDharpure, Gurpreet2720, hamza0540

Project By:

Name: Haraksh Singh

Roll-no: 2110990541

Group: 8-B

My Tasks as a Maintainer:-

1. As a Maintainer adding collaborators for the repository named as Group08-Chitkara-University/2110990541 owned by Haraksh-CU (ME).

The screenshot shows a GitHub repository page for 'Group08-Chitkara-University/2110990541'. The repository has 2 branches and 0 tags. The commit history lists several commits from 'Haraksh-CU' and others, mostly related to fixing code in style.css and committing project files. The repository has no description, website, or topics provided. It has 0 stars, 1 watching, and 4 forks. There are no releases or packages published. Contributors listed include Haraksh-CU, HarishDharpure, hamza0540, and Gurpreet2720.

A. Adding collaborators to the repository.

The screenshot shows the 'Who has access' section in the GitHub repository settings. Under 'DIRECT ACCESS', it shows that 6 people have access: Haraksh-CU, haraksh-singh, Gurpreet Singh, and hamza0540. A modal window titled 'Add people to 2110990541' is open, showing search results for 'haraksh-' which include 'Haraksh-CU' and 'haraksh-singh', both of whom are already listed under 'DIRECT ACCESS'.

Step1: Select the repository that you own in which you want collaborators to contribute.
For adding collaborators , go to the settings of that repository, and under the Access

section click on **Collaborators and teams** option.Then click on **Add people button** Then a pop-up box will appear as shown in the image above. Write the user-name of the person in the search box whom you want to add as a collaborator for your repository.

Step2: Once you have added the collaborators you can define the roles of each collaborator.

Manage access

Create team Add people Add teams

Select all Type ▾ Role ▾

Find a team, organization member or outside collaborator...

<input type="checkbox"/> Gurpreet Singh Gurpreet2720	Role: Triage ▾ Remove
<input type="checkbox"/> hamza0540	Remove
<input type="checkbox"/> Haraksh-CU	Remove
<input type="checkbox"/> haraksh-singh Outside Collaborator	Remove
<input type="checkbox"/> Harish Dharpure HarishDharpure	Remove
<input type="checkbox"/> Team 14 @team-14 • 4 members	Remove

Choose role

Read
Can read and clone this repository. Can also open and comment on issues and pull requests.

Triage
Can read and clone this repository. Can also manage issues and pull requests.

Write
Can read, clone, and push to this repository. Can also manage issues and pull requests.

Maintain
Can read, clone, and push to this repository. They can also manage issues, pull requests, and some repository settings.

Admin
Can read, clone, and push to this repository. Can also manage issues, pull requests, and repository settings, including adding collaborators.

When you click on the **role drop-down button**. Then a list of roles appears as in the above image. And each role has an explanation written explaining what the role is about. So accordingly, you can assign roles. Also there is a **remove button next to the role drop-down button**, in case you **want to remove a collaborator** click on the **remove button**.

Once the above mentioned steps are complete,now the collaborators can contribute to the repository.

Collaborators added by me for my repository-2110990541 : 1. Gurpreet2720 2. HarishDharpure 3. hamza0540, role selected for each collaborator-Triage.

B. Open and close pull request:

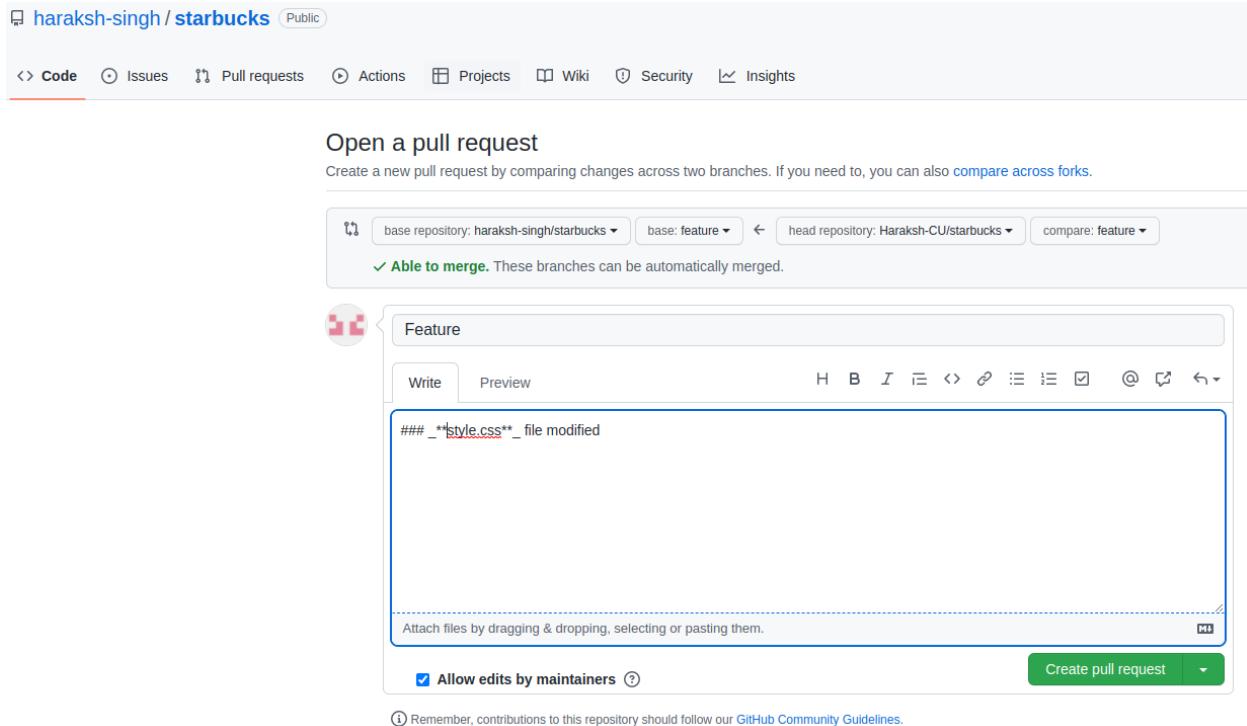
The screenshot shows a GitHub repository page for 'Haraksh-CU / starbucks'. The repository is public and has been forked from 'haraksh-singh/starbucks'. The 'Code' tab is selected. A yellow banner at the top right says 'feature had recent pushes less than a minute ago' and has a 'Compare & pull request' button. Below it, there's a summary bar with 'feature', '2 branches', '0 tags', and buttons for 'Go to file', 'Add file', and 'Code'. It also shows that the branch is '2 commits ahead' of the upstream. A list of commits by 'Haraksh-CU' is shown, including updates to 'style.css' and 'volumeandarea-cylinder.cpp'. At the bottom, there's a note to 'Add a README'.

Step1: After forking the repository in which you want to contribute as a collaborator.

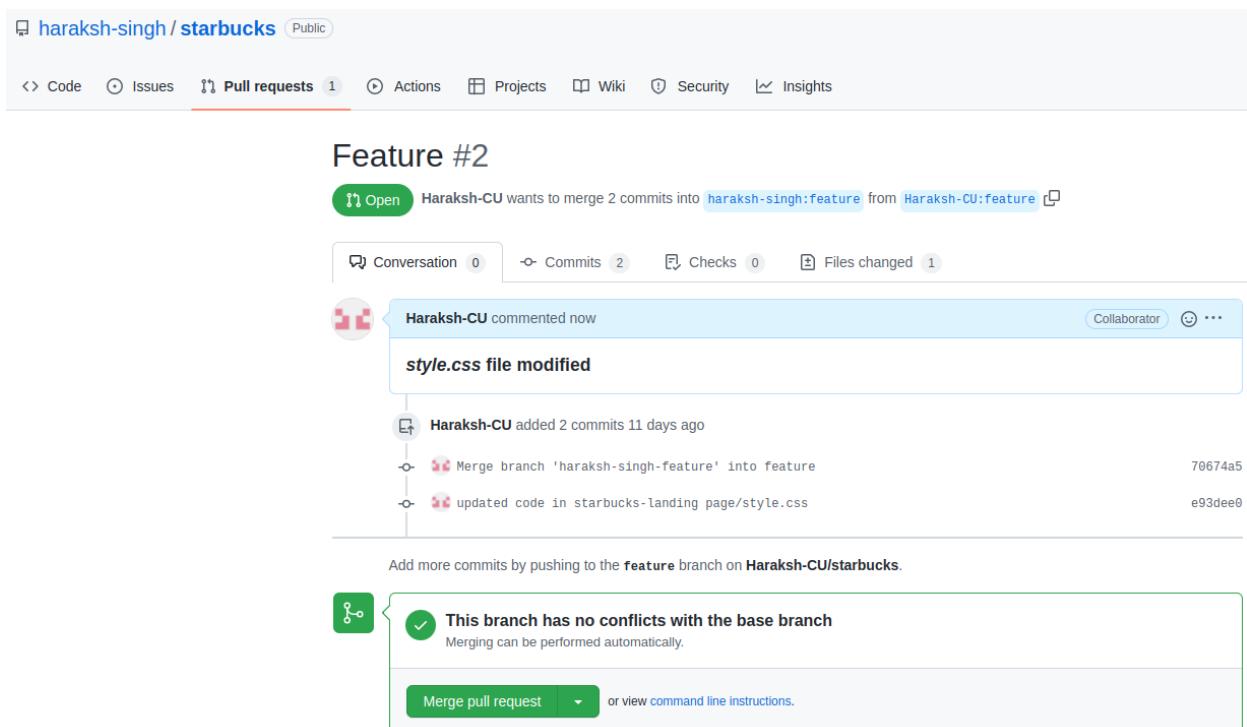
Clone it on your computer and add or make changes in file, commit it then publish the local commits to the remote forked repository- in the above case the remote forked repository is “[Haraksh-CU/starbucks](#)” and the original repository is “[haraksh-singh/starbucks](#)”.

The above image is of forked repository where it says -This branch is 2 commits ahead of “haraksh-singh:feature” where haraksh-singh is the account owner’s name where the original repository lies and feature is the branch of starbucks repository of the haraksh-singh account.

Step2: Now to make the branch feature of “[Haraksh-CU/starbucks](#)” which is 2 commits ahead of “[haraksh-singh/starbucks](#)” feature branch up to date, We Open pull request, pull request is a request to owner of original repository to merge the commits done in forked repository into his own repository. Through pull requests we can collaborate on many people's repositories.

A screenshot of the GitHub pull request creation interface. The repository is 'haraksh-singh / starbucks' (Public). The 'Code' tab is selected. A banner at the top says 'Open a pull request' and 'Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks.' Below this, a dropdown shows 'base repository: haraksh-singh/starbucks' and 'base: feature'. The 'head repository' dropdown shows 'Haraksh-CU/starbucks' and the 'compare' dropdown shows 'feature'. A green checkmark indicates 'Able to merge. These branches can be automatically merged.' The main area shows a code diff with the commit message 'style.css file modified'. A note says 'Attach files by dragging & dropping, selecting or pasting them.' A checkbox 'Allow edits by maintainers' is checked. A green 'Create pull request' button is at the bottom right. A note at the bottom left says 'Remember, contributions to this repository should follow our GitHub Community Guidelines.'

Click on create pull request. After that pull request is opened:

A screenshot of the GitHub pull request details page for 'Feature #2'. The 'Pull requests' tab is selected, showing 1 open pull request. The pull request from 'Haraksh-CU' wants to merge 2 commits into 'haraksh-singh:feature' from 'Haraksh-CU:feature'. A green 'Open' button is visible. The pull request details show a comment from 'Haraksh-CU' stating 'style.css file modified'. Below it, a commit history shows 'Haraksh-CU added 2 commits 11 days ago' with a merge commit 'Merge branch 'haraksh-singh-feature' into feature' and a commit 'updated code in starbucks-landing page/style.css'. A note says 'Add more commits by pushing to the feature branch on Haraksh-CU/starbucks.' A green box at the bottom says 'This branch has no conflicts with the base branch' and 'Merging can be performed automatically.' A green 'Merge pull request' button is at the bottom right.

Once the pull request is opened a (pull request-notification) would be sent to the haraksh-singh/starbucks account repository that Haraksh-CU wants to merge 2 commits into haraksh-singh:feature from Haraksh-CU:feature .

Merging and closing Pull request :

The screenshot shows a GitHub pull request interface for a pull request titled "Feature #2". The pull request details state: "Haraksh-CU wants to merge 2 commits into haraksh-singh:feature from Haraksh-CU:feature". Below this, a commit history shows two commits from "Haraksh-CU":

- Haraksh-CU added 2 commits 11 days ago
 - Merge branch 'haraksh-singh-feature' into feature (70674a5)
 - updated code in starbucks-landing page/style.css (e93dee0)

Below the commit history, a note says "Add more commits by pushing to the **feature** branch on Haraksh-CU/starbucks." A green button labeled "Merge pull request" is visible.

Continuous integration has not been set up
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch
Merging can be performed automatically.

Merging via command line
If you do not want to use the merge button or an automatic merge cannot be performed, you can perform a manual merge on the command line. However, the following steps are not applicable if the base branch is protected.

HTTPS SSH Patch <https://github.com/Haraksh-CU/starbucks.git>

Step 1: From your project repository, check out a new branch and test the changes.
`git checkout -b Haraksh-CU-feature feature
git pull https://github.com/Haraksh-CU/starbucks.git feature`

Step 2: Merge the changes and update on GitHub.
`git checkout feature
git merge --no-ff Haraksh-CU-feature
git push origin feature`

Then after reviewing changes of the code and if the changes are okay then haraksh-singh account can merge pull requests by two ways either by clicking on Merge pull request button or through command shell of their systems by writing commands. One can also view command line instructions on github the link of which is present just next to the merge pull request button on github as shown in the image-above.

In this case I merge the pull request by Merge pull request button, however in the later section of this 'Task-2' i have demonstrated merging pull requests by command-line in My task as a Maintainer section of this project.

Pull Request Merged:

The screenshot shows a GitHub pull request merge interface. At the top, it says "Merged haraksh-singh merged 2 commits into haraksh-singh:feature from Haraksh-CU:feature now". Below this, there are tabs for Conversation (0), Commits (2), Checks (0), and Files changed (1). The commit history shows two commits from Haraksh-CU: one adding two commits 11 days ago, and another merging branch 'haraksh-singh-feature' into 'feature'. The merge commit is signed off by haraksh-singh. A comment from Haraksh-CU is visible, stating "style.css file modified". At the bottom, there is a comment input field with "Leave a comment" placeholder and a rich text editor toolbar.

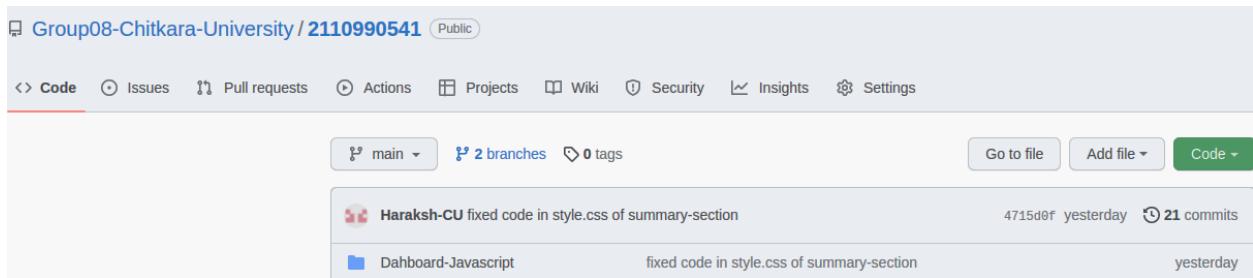
Note: As soon as the pull request is merged the pull request automatically gets closed.

Pull request closed:

The screenshot shows a GitHub pull request list. The search bar includes filters for "is:pr is:closed". There are two closed pull requests listed: one from "Feature" that was merged 29 seconds ago, and another unopened pull request. The interface includes standard GitHub filtering and sorting options at the top.

2. As a Maintainer merging and closing pull request of the collaborator for my repository named as-2110990541.

Project : Dashboard-Javascript



Group08-Chitkara-University / 2110990541 Public

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

main 2 branches 0 tags Go to file Add file Code

Haraksh-CU fixed code in style.css of summary-section 4715d0f yesterday 21 commits

Dahboard-Javascript fixed code in style.css of summary-section yesterday

Step-1 I have uploaded a project named Dashboard-Javascript to my remote repository, which contains a html file, a css file, and an img folder. There are 2 branches: main and master branch. Project is uploaded on the main branch.



main 2110990541 / Dahboard-Javascript Go to file Add file ...

Haraksh-CU fixed code in style.css of summary-section 4715d0f 2 days ago History

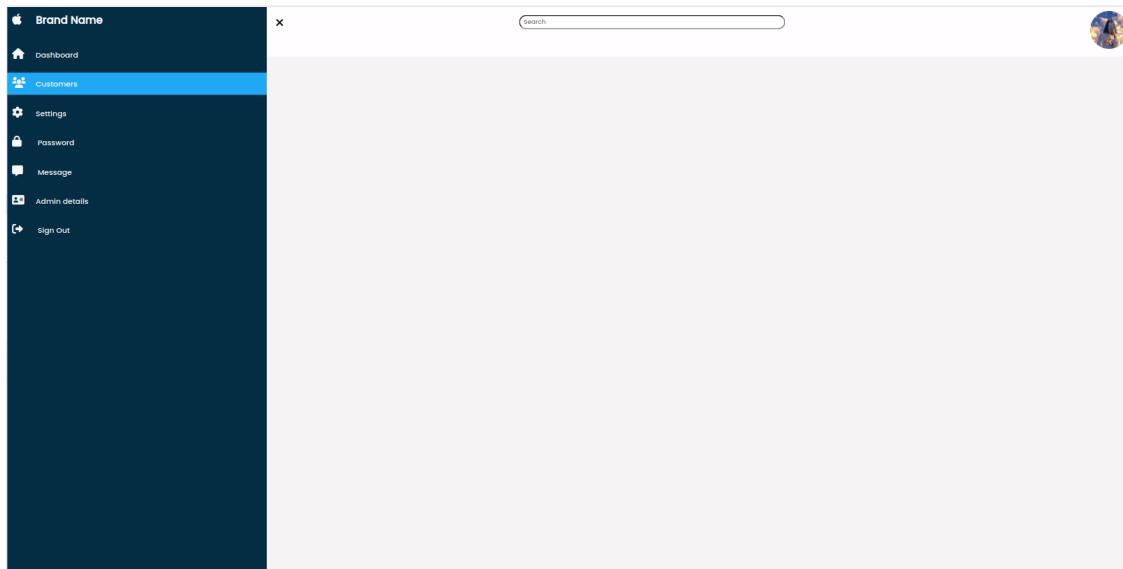
..

img Dashboard project committed components made-side-nav of left-container... 5 days ago

index.html Edited Summary Section by Gurpreet 3 days ago

style.css fixed code in style.css of summary-section 2 days ago

The initial Folder uploaded to my remote repository, the output of the code uploaded is as follows :-:



All the Collaborators will collaborate on the Dashboard-Javascript project.

- The First pull request opened by Gurpreet2720 :

Edited Summary Section by Gurpreet #6

Gurpreet2720 wants to merge 1 commit into Group08-Chittkara-University:main from Gurpreet2720:main

Conversation 1 Commits 1 Checks 0 Files changed 2

Gurpreet2720 commented 12 hours ago

Code by gurpreet for project.

Gurpreet2720 Edited Summary Section by Gurpreet ed53def

Haraksh-CU approved these changes 2 hours ago

Haraksh-CU left a comment

Changes are ok. will merge the pull request

Reviewers Haraksh-CU Still in progress? Convert to draft

Assignees No one—assign yourself

Labels None yet

Projects None yet

Milestone None yet

Development Successfully merging this pull request may close these issues.

Notifications Customize Unsubscribe You're receiving notifications because you commented.

Add more commits by pushing to the main branch on Gurpreet2720/2110990541.

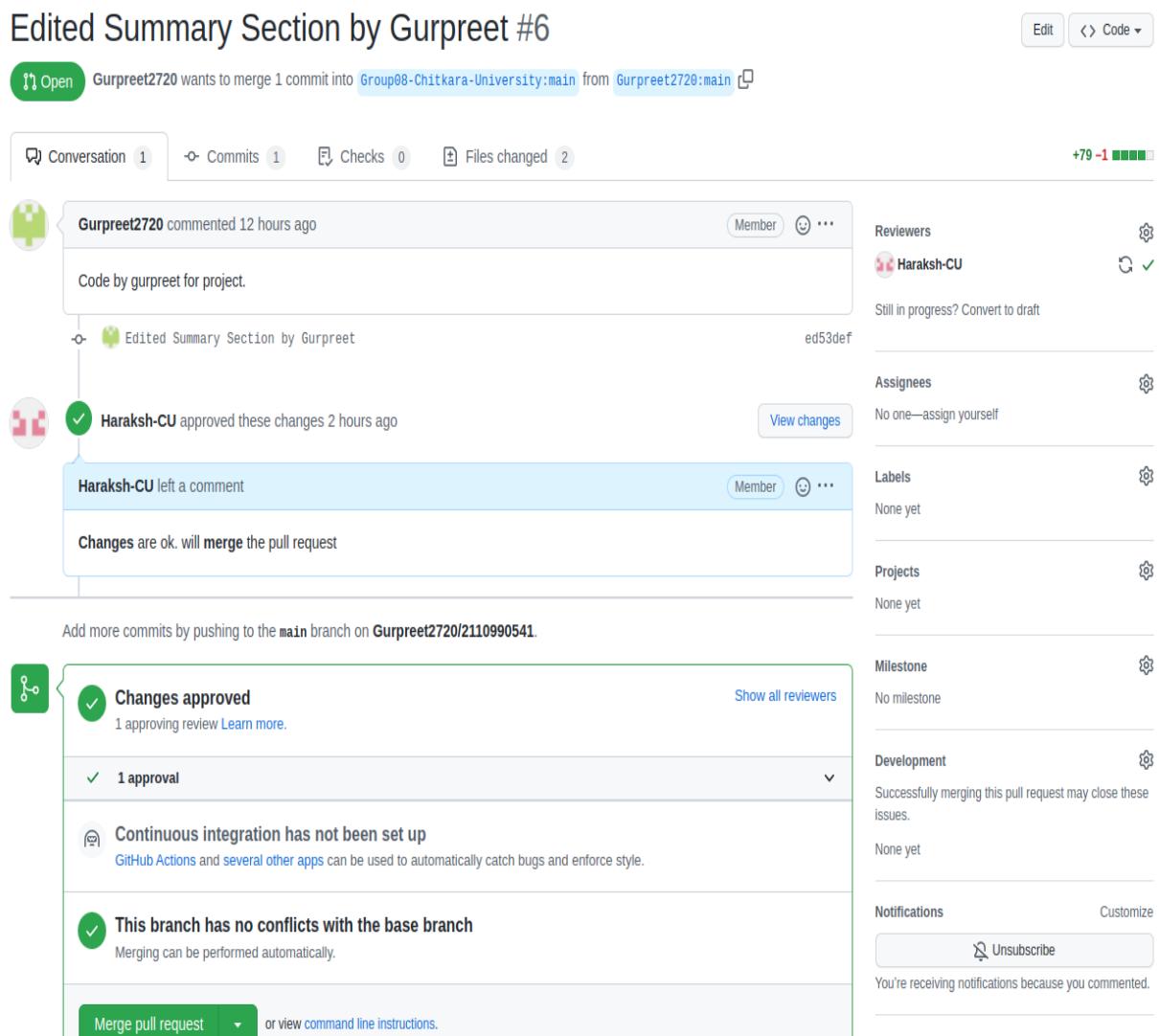
Changes approved 1 approving review Learn more.

1 approval

Continuous integration has not been set up GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch Merging can be performed automatically.

Merge pull request or view command line instructions.



- Merging and closing the pull request of Gurpreet2720:

```
m2m-aksh@mind2minds-aksh:~/SCM-project$ git branch
* Gurpreet2720-main
  HarishDharpure-main
  hamza0540-main
  haraksh-singh-master
  main
  master
m2m-aksh@mind2minds-aksh:~/SCM-project$ git pull https://github.com/Gurpreet2720/2110990541.git main
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 5 (delta 3), reused 5 (delta 3), pack-reused 0
Unpacking objects: 100% (5/5), 1.40 KiB | 477.00 KiB/s, done.
From https://github.com/Gurpreet2720/2110990541
 * branch      main      -> FETCH_HEAD
Updating 82d451e..ed53def
Fast-forward
 Dahboard-Javascript/index.html | 53 ++++++-----+
 Dahboard-Javascript/style.css  | 27 +-----+
 2 files changed, 79 insertions(+), 1 deletion(-)
m2m-aksh@mind2minds-aksh:~/SCM-project$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
m2m-aksh@mind2minds-aksh:~/SCM-project$ git merge --no-ff Gurpreet2720-main
Merge made by the 'ort' strategy.
 Dahboard-Javascript/index.html | 53 ++++++-----+
 Dahboard-Javascript/style.css  | 27 +-----+
 2 files changed, 79 insertions(+), 1 deletion(-)
m2m-aksh@mind2minds-aksh:~/SCM-project$ git push origin main
Username for 'https://github.com': Haraksh-CU
Password for 'https://Haraksh-CU@github.com':
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 6 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 1.65 KiB | 1.65 MiB/s, done.
Total 6 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To https://github.com/Group08-Chitkara-University/2110990541
  82d451e..edaf388 main -> main
m2m-aksh@mind2minds-aksh:~/SCM-project$ git log --oneline
edaf388 (HEAD -> main, origin/main) Merge branch 'Gurpreet2720-main'changes merge in the base repository main
ed53def (Gurpreet2720-main) Edited Summary Section by Gurpreet
82d451e Merging changes made by harish in dahboard-javascript project in both html and css file.
d66e7f4 (HarishDharpure-main) harish made change in file
631b115 Merge branch 'hamza0540-main'. Mainclass Left-container modified.
95e357d (hamza0540-main) Added left section and commited by hamza
b8f4d8b Dashboard project committed components made-side-nav of left-container and topnav of right container
3b5810d oops fa3 exam question committed
ba87d36 Merge pull request #3 from HarishDharpure/main
5d7a6be harish maded changes in oops.cpp
e7fe506 oops.cpp file for practice-1 of class
```

Step1- “git checkout -b Gurpreet2720-main main”. By typing this command, we have branched out the ‘Gurpreet2720-main’ branch from ‘main branch’ and switched to ‘Gurpreet2720-main’ branch.

Step2- “git pull <https://github.com/Gurpreet2720/2110990541.git> main”. By typing this command all the changes that had been made in the ‘main branch’ of the “Gurpreet2720/2110990541” repository which is a forked repository of my remote repository [Group08-Chitkara-University/2110990541](https://github.com/Group08-Chitkara-University/2110990541), all those changes will come in the present working branch of my local repository which is ‘Gurpreet2720-main’ branch.

Step3- After we have pulled the changes from the forked repository main branch into my local repository ‘Gurpreet2720-main’ branch, and reviewed and committed those changes. Then the ‘Gurpreet2720-main’ branch of my local repository is ready to be merged into the main branch. In order to merge we first switch to main branch by typing the command “git checkout main” and then we type command “git merge --no-ff Gurpreet2720-main” which will merge the ‘Gurpreet2720-main’ branch into the ‘main’ branch of my local repository. Now all the changes and commits made in the ‘Gurpreet2720-main’ branch will also reflect on the main branch of my local repository.

After completing step3 , “Gurpreet2720/2110990541” repository main branch is up to date with my local repository main branch.

Step4- Now to make those changes also appear on my remote repository main branch, we type the command “git push origin main”. After typing this command, The changes,done by Gurpreet2720, which are currently present in my local repository main branch as a commit will be pushed into the remote repository

‘Group08-Chitkara-University/2110990541’,

main branch.

After completing the step4 the pull request opened by the Gurpreet2720 on Github will be merged and closed.

The screenshot shows a GitHub pull request page for a repository named 'Group08-Chitkara-University/2110990541'. The pull request has been merged by 'Haraksh-CU' into the 'main' branch. The conversation tab is active, showing the following comments:

- Gurpreet2720 commented 12 hours ago: "Code by gurpreet for project."
- Gurpreet2720 edited the summary section 2 hours ago.
- Haraksh-CU approved these changes 2 hours ago: "Changes are ok. will merge the pull request"
- Haraksh-CU merged the commit edaf388 into the main branch 2 minutes ago.

On the right side, there are sections for Reviewers (Haraksh-CU), Assignees (None yet), Labels (None yet), Projects (None yet), Milestone (No milestone), and Development (None).

After merging Gurpreet2720 code changes, the output of the code is:

The screenshot shows a digital dashboard interface with a dark sidebar on the left containing various icons. At the top center is a search bar labeled "Search". In the top right corner is a circular profile picture of a person. Below the search bar, there are four main data cards: "1,042 Daily views" (with a person icon), "80 Sales" (with a shopping cart icon), "208 Comments" (with a speech bubble icon), and "\$6,042 Earning" (with a dollar sign icon). The background of the dashboard is light gray.

- The Second pull request is opened by hamza0540:

Chitkara-University / 2110990541 Public

jes Pull requests 1 Actions Projects Wiki Security Insights Settings

Added left section and committed by hamza #4

[Open](#) hamza0540 wants to merge 1 commit into Group08-Chitkara-University:main from hamza0540:main

Conversation 0 Commits 1 Checks 0 Files changed 2

hamza0540 commented 1 hour ago
Completed the code of the main left section container.

Added left section and committed by hamza 95e357d

Add more commits by pushing to the main branch on [hamza0540/2110990541](#).

Continuous integration has not been set up
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request or view command line instructions.

Write Preview H B I E < > C S E T A F

- Merging and closing the pull request of hamza0540:

```
m2m-aksh@mind2minds-aksh:~/SCM-project$ git branch
  haraksh-singh-master
* main
  master
m2m-aksh@mind2minds-aksh:~/SCM-project$ git checkout -b hamza0540-main main
Switched to a new branch 'hamza0540-main'
m2m-aksh@mind2minds-aksh:~/SCM-project$ git pull https://github.com/hamza0540/2110990541.git main
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 5 (delta 2), reused 5 (delta 2), pack-reused 0
Unpacking objects: 100% (5/5), 2.77 KiB | 1.39 MiB/s, done.
From https://github.com/hamza0540/2110990541
 * branch      main      -> FETCH_HEAD
Updating b8f4d8b..95e357d
Fast-forward
Dahboard-Javascript/index.html | 88 ++++++=====
Dahboard-Javascript/style.css | 91 ++++++=====
2 files changed, 179 insertions(+)
m2m-aksh@mind2minds-aksh:~/SCM-project$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
m2m-aksh@mind2minds-aksh:~/SCM-project$ git merge --no-ff hamza0540-main
Merge made by the 'ort' strategy.
Dahboard-Javascript/index.html | 88 ++++++=====
Dahboard-Javascript/style.css | 91 ++++++=====
2 files changed, 179 insertions(+)
m2m-aksh@mind2minds-aksh:~/SCM-project$ git push origin main
Username for 'https://github.com': Haraksh-CU
Password for 'https://Haraksh-CU@github.com':
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 6 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 3.02 KiB | 1.00 MiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Group08-Chitkara-University/2110990541
  b8f4d8b..631b115  main -> main
```

Step1- “git checkout -b hamza0540-main main”. By typing this command, we have branched out the ‘hamza0540-main’ branch from ‘main branch’ and switched to ‘hamza0540-main’ branch.

Step2- “git pull <https://github.com/hamza0540/2110990541.git> main”. By typing this command all the changes that had been made in the ‘main branch’ of the “hamza0540/2110990541” repository which is a forked repository of my remote repository Group08-Chitkara-University/2110990541, all those changes will come in the present working branch of my local repository which is ‘hamza0540-main’ branch.

Step3- After we have pulled the changes from the forked repository main branch into my local repository ‘hamza0540-main’ branch, and reviewed and committed those changes. Then the ‘hamza0540-main’

branch of my local repository is ready to be merged into the main branch. In order to merge we first switch to main branch by typing the command “git checkout main” and then we type command “git merge --no-ff hamza0540-main” which will merge the ‘hamza0540-main’ branch into the ‘main’ branch of my local repository. Now all the changes and commits made in the ‘hamza0540-main’ branch will also reflect on the main branch of my local repository.

After completing step3 , “hamza0540/2110990541” repository main branch is up to date with my local repository main branch.

Step4- Now to make those changes also appear on my remote repository main branch, we type the command “git push origin main”. After typing this command, The changes,done by hamza0540, which are currently present in my local repository main branch as a commit will be pushed into the remote repository ‘Group08-Chitkara-University/2110990541’, main branch.

After completing the step4 the pull request opened by the hamza0540 on Github will be merged and closed.

The screenshot shows a GitHub pull request merge history. At the top, there's a navigation bar with 'Pull requests' (1), 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. Below the navigation bar, the title of the pull request is 'Added left section and committed by hamza #4'. A purple button indicates it's 'Merged'. Below the title, there are several comments:

- A comment from 'hamza0540' (Member) stating 'Completed the code of the main left section container.' This comment has a reply from 'hamza0540' (Member) saying 'Added left section and committed by hamza'.
- A comment from 'Haraksh-CU' (Member) saying 'Okay. Great!!'
- A final comment from 'Haraksh-CU' (Member) stating 'merged commit 631b115 into Group08-Chitkara-University:main 4 minutes ago'.

At the bottom, there's a comment input field with 'Write' and 'Preview' buttons, and a rich text editor toolbar above it. A note at the bottom says 'Leave a comment' and 'Attach files by dragging & dropping, selecting or pasting them.'

After merging hamza0540 code changes, the output of the code is:

Brand Name

Dashboard

Customers

Settings

Password

Message

Admin details

Sign out

1,042 Daily Views

80 Sales

208 Comments

\$6,042 Earning

Recent Orders

Name	Price	Payment	Status
Star Refrigerator	\$1200	Paid	Delivered
Window Cooler	\$110	Due	Pending
Speakers	\$620	Paid	Return
Hp Laptop	\$110	Due	In progress
Apple Watch	\$1200	Paid	Delivered
Wall Fan	\$110	Due	Pending
Adidas Shoe	\$620	Paid	Return
Denim Shirt	\$110	Due	In Progress
Apple Mac pro	\$10000	Due	Pending

- The Third pull request is opened by HarishDharpure:

The screenshot shows a GitHub pull request page. At the top, there's a navigation bar with 'Pull requests' (1), 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. The main title of the pull request is 'harish made change in file #5'. A green button labeled 'Open' is visible. Below the title, it says 'HarishDharpure wants to merge 1 commit into Group08-Chitkara-University:main from HarishDharpure:main'. There are tabs for 'Conversation' (0), 'Commits' (1), 'Checks' (0), and 'Files changed' (2). The 'Commits' tab is selected, showing one commit from 'HarishDharpure' with the message 'hello haraksh'. This commit has a link to 'd66e7f4'. Below this, another commit from 'HarishDharpure' is shown with the message 'harish made change in file'. The 'Files changed' tab shows two files. A comment from 'Haraksh-CU' says 'Hello harish, will merge the pull request.' Below the commits, a note says 'Add more commits by pushing to the main branch on HarishDharpure/2110990541.' At the bottom, there's a section for CI status with a green icon and the text 'Continuous integration has not been set up. GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.' Another section says 'This branch has no conflicts with the base branch. Merging can be performed automatically.'

- Merging and closing the pull request of HarishDharpure:

```
m2m-aksh@mind2minds-aksh:~/SCM-project$ git checkout -b HarishDharpure-main main
Switched to a new branch 'HarishDharpure-main'
m2m-aksh@mind2minds-aksh:~/SCM-project$ git branch
* HarishDharpure-main
  hamza0540-main
  haraksh-singh-master
  main
  master

m2m-aksh@mind2minds-aksh:~/SCM-project$ git pull https://github.com/HarishDharpure/2110990541.git main
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 5 (delta 3), reused 5 (delta 3), pack-reused 0
Unpacking objects: 100% (5/5), 1.04 KiB | 1.04 MiB/s, done.
From https://github.com/HarishDharpure/2110990541
 * branch           main      -> FETCH_HEAD
Updating 631b115..d66e7f4
Fast-forward
 Dahboard-Javascript/index.html | 82 ++++++-----+
 Dahboard-Javascript/style.css  | 30 ++++++-----+
 2 files changed, 110 insertions(+), 2 deletions(-)
m2m-aksh@mind2minds-aksh:~/SCM-project$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
m2m-aksh@mind2minds-aksh:~/SCM-project$ git merge --no-ff HarishDharpure-main
Merge made by the 'ort' strategy.
 Dahboard-Javascript/index.html | 82 ++++++-----+
 Dahboard-Javascript/style.css  | 30 ++++++-----+
 2 files changed, 110 insertions(+), 2 deletions(-)
m2m-aksh@mind2minds-aksh:~/SCM-project$ git push origin main
Username for 'https://github.com': Haraksh-CU
Password for 'https://Haraksh-CU@github.com':
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 6 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 1.30 KiB | 1.30 MiB/s, done.
Total 6 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To https://github.com/Group08-Chitkara-University/2110990541
  631b115..82d451e main -> main
m2m-aksh@mind2minds-aksh:~/SCM-project$ git log --oneline
82d451e (HEAD -> main, origin/main) Merging changes made by harish in dahboard-javascript project in both html and css file.
d66e7f4 (HarishDharpure-main) harish made change in file
631b115 Merge branch 'hamza0540-main'. Mainclass Left-container modified.
95e357d (hamza0540-main) Added left section and committed by hamza
b8f4d8b Dashboard project committed components made-side-nav of left-container and topnav of right container
3b5810d oops fa3 exam question committed
ba87d36 Merge pull request #3 from HarishDharpure/main
5d7a6be harish maded changes in oops.cpp
e7fe506 oops.cpp file for practice-1 of class
aa222ce Starbucks-Landing-Page-folder committed
```

Step1- “git checkout -b HarishDharpure-main main”. By typing this command, we have branched out the ‘HarishDharpure-main’ branch from ‘main branch’ and switched to ‘HarishDharpure-main’ branch.

Step2- “git pull <https://github.com/HarishDharpure/2110990541.git> main”. By typing this command all the changes that had been made in the ‘main branch’ of the “HarishDharpure/2110990541” repository which is a forked repository of my remote repository

Group08-Chitkara-University/2110990541

, all those changes will come in the present working branch of my local repository which is ‘HarishDharpure-main’ branch.

Step3- After we have pulled the changes from the forked repository main branch into my local repository ‘HarishDharpure-main’ branch, and reviewed and committed those changes. Then the ‘HarishDharpure-main’ branch of my local repository is ready to be merged into the main branch. In order to merge we first switch to main branch by typing the command “git checkout main” and then we type command “git merge --no-ff HarishDharpure-main” which will merge the ‘HarishDharpure-main’ branch into the ‘main’ branch of my local repository. Now all the changes and commits made in the ‘HarishDharpure-main’ branch will also reflect on the main branch of my local repository.

After completing **step3** , “HarishDharpure/2110990541” repository main branch is up to date with my local repository main branch.

Step4- Now to make those changes also appear on my remote repository main branch, we type the command “git push origin main”. After typing this command, The changes,done by HarishDharpure, which are currently present in my local repository main branch as a commit will be pushed into the remote repository

‘Group08-Chitkara-University/2110990541’

main branch.

After completing the step4 the pull request opened by the HarishDharpure on Github will be merged and closed.

The screenshot shows a GitHub pull request merge history. At the top, there's a header with links for Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below that, the title "harish made change in file #5" is displayed, followed by a "Merged" button and a message from Haraksh-CU about merging the commit. The main area shows a conversation between HarishDharpure and Haraksh-CU. HarishDharpure comments "hello haraksh" and "harish made change in file". Haraksh-CU responds with "Hello harish, will merge the pull request." A merge commit is shown, and a "Revert" button is available. At the bottom, there's a comment input field with "Write" and "Preview" tabs, and a rich text editor toolbar.

- After merging HarishDharpure code changes, the output of the code is:

The screenshot shows a web-based e-commerce dashboard. On the left, a sidebar menu includes Brand Name, Dashboard, Customers, Settings, Password, Message, Admin details, and Sign Out. The main area has a search bar at the top. Below it, key metrics are displayed: 1,042 Daily views, 80 Sales, 208 Comments, and \$6,042 Earnings. Two tables are present: "Recent Orders" and "Recent Customers". The "Recent Orders" table lists items like Star Refrigerator, Window Cooler, Speakers, Hp Laptop, Apple Watch, Wall Fan, Adidas Shoe, Denim Shirt, and Apple Mac pro, along with their prices, payment status (Paid, Due, In progress, Pending, Delivered, Return), and status (Delivered, Pending, Return, In progress). The "Recent Customers" table lists users from various countries: Amelia (Italy), Muhammad (India), Anni (France), Olivia (USA), John (Britain), Ashraf (India), Diana (Malaysia), and Armit (India).

After closing all the pull requests. Project-Dashboard-Javascript is completed and it looks like this:

The screenshot shows a project dashboard with the following sections:

- Recent Orders:** A table listing 10 recent purchases with columns for Name, Price, Payment, and Status. Status includes Delivered, Pending, Return, In progress, and Pending.
- Recent Customers:** A list of 10 recent customers with their names, countries, and profile pictures.
- Metric Summary:** Daily views (1,042), Sales (80), Comments (208), and Earnings (\$6,042).

History for [211990541](#) / Dahboard-Javascript

The commit history shows the following activity:

- Commits on May 27, 2022:
 - fixed code in style.css of summary-section by [Haraksh-CU](#) (commit [4715d0f](#))
- Commits on May 26, 2022:
 - Edited Summary Section by Gurpreet by [Gurpreet2720](#) (commit [ed53def](#))
 - harish made change in file by [HarishDharpure](#) (commit [d66e7f4](#))
- Commits on May 25, 2022:
 - Added left section and committed by hamza by [hamza0540](#) (commit [95e357d](#))
 - Dashboard project committed components made-side-nav of left-container... by [Haraksh-CU](#) (commit [b8f4d8b](#))

History of commits of the Dashboard-Javascript project present in the main branch in the repository-211990541 is shown above.

Network Graph of the repository- 'Group08-Chitkara-University/2110990541':

Network graph

Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.



Network Graphs tells about all activity done in the repository. Straight lines represent branches and dots represent commits made on that branch and pull requests merged can also be seen on the network graph as dots.

My Tasks as a Collaborator:-

Collaborator Account (me)- <https://github.com/Haraksh-CU>

Create fork:

step1- go to the repository you want to fork:

The screenshot shows a GitHub repository page for 'Group08-Chitkara-University / 2110990535'. The repository is public and has 2 branches and 0 tags. The commit history shows several commits from 'Gurpreet2720' and 'hamza'. The repository details section includes an 'About' section with no description, 0 stars, 1 watching, and 2 forks.

File	Description	Time
project	Added styling to login page by hamza	2 days ago
ScmProjectFile.docx	change	2 months ago
c.cpp	Rectify	last month
fbp.cpp	Code	2 months ago
form.html	Color change	2 months ago
power.cpp	Power	2 months ago
sum.cpp	First commit	2 months ago

Step2-Click on fork button present on the top-right corner of page, then a pop-up appears like below:

Create a new fork

A fork is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks](#).

The form has fields for 'Owner *' (set to 'Haraksh-CU') and 'Repository name *' (set to '2110990535'). A warning message says 'The repository 2110990535 already exists on this account. Choose the name to distinguish it further.' Below the form is a note about creating a fork in a personal account, and at the bottom is a green 'Create fork' button.

Owner * Repository name *

Haraksh-CU / 2110990535 !

By default, forks are named The repository 2110990535 already exists on this account. Choose the name to distinguish it further.

Description (optional)

ⓘ You are creating a fork in your personal account.

Create fork

Select the owner account where you want your forked repository to land. Then enter the repository name that you want to fork. Click on the *create fork* button. After completing the above steps a forked repository of the same is created on your account.

I have created 3 forked repositories of my team members repositories, using the above steps mentioned on how to create a fork. My team member repositories are:

1. [Group08-Chitkara-University/2110990535](#) - owned by Gurpreet2720
2. [Group08-Chitkara-University/2110990540](#) -owned by hamza0540
3. [Group08-Chitkara-University/2110990549](#) - owned by HarishDharpure

Forking and Opening Pull request on team members repositories.

1. Repository- [Group08-Chitkara-University/2110990535](#) owned by Gurpreet2720.

Step1- Fork repository , by forking a copy of the above repository appeared on my account.

Forked repository of the above repository is as follows:

The screenshot shows a GitHub repository page for [Haraksh-CU / 2110990535](#). The repository is public and was forked from [Group08-Chitkara-University/2110990535](#). The commit history is as follows:

Commit	Description	Date	Commits
Gurpreet2720 style css code done by hamza of login page	Added styling to login page by hamza	2 days ago	19 commits
project	change	2 months ago	
ScmProjectFile.docx	Rectify	last month	
c.cpp	Code	2 months ago	
fibp.cpp	Color change	2 months ago	
form.html	Power	2 months ago	
power.cpp	First commit	2 months ago	
sum.cpp			

At the bottom, there is a note: "Help people interested in this repository understand your project by adding a README." with a "Add a README" button.

Step2- After i forked the repository, opened the terminal on my system, and typed the following commands in the folder where i want to clone the forked remote repository:

```
i2m-aksh@mind2minds-aksh:~/gurpreet-project$ git clone https://github.com/Haraksh-CU/2110990535.git
Cloning into '2110990535'...
remote: Enumerating objects: 80, done.
remote: Counting objects: 100% (80/80), done.
remote: Compressing objects: 100% (68/68), done.
remote: Total 80 (delta 17), reused 72 (delta 9), pack-reused 0
Receiving objects: 100% (80/80), 19.89 MiB | 10.84 MiB/s, done.
Resolving deltas: 100% (17/17), done.
i2m-aksh@mind2minds-aksh:~/gurpreet-project$ ls
2110990535
i2m-aksh@mind2minds-aksh:~/gurpreet-project$ cd 2110990535
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535$ ls
f.cpp fibp.cpp form.html power.cpp project ScmProjectFile.docx sum.cpp
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535$ cd project
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project$ ls
ko.jpg login.html main
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project$ cd main
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project/main$ ls
Alooparathanew.jpg Delhinew.jpg mangonew.jpg
Amritsanew.jpg food.jpg margheritanew.jpg
Bg1.jpg gobhitparathanew.jpg onionnew.jpg
Bg.jpg Haryananew.jpg Punjabnew.png
Chandigarhnew.jpg Himachalnew.jpg smiley.gif
Cheeseburgernew.jpg img Strawberryshakenew.jpg
ChocolateShakenew.jpg index_1.html style.css
Contact.jpg index.html veggieburgernew.jpg
css ko.jpg
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project/main$ gedit index_1.html
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project/main$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   index_1.html

no changes added to commit (use "git add" and/or "git commit -a")
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project/main$ git commit -a -m "index_1.html file in main folder which is a sub-folder of project folder is modified by Haraksh Singh"
[master 98bfaa9] index_1.html file in main folder which is a sub-folder of project folder is modified by Haraksh Singh
1 file changed, 60 insertions(+), 2 deletions(-)
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project/main$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
i2m-aksh@mind2minds-aksh:~/gurpreet-project/2110990535/project/main$ git push
Username for 'https://github.com': Haraksh-CU
Password for 'https://Haraksh-CU@github.com':
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
```

Commands: 1. “git clone <https://github.com/Haraksh-CU/2110990535.git>”. By typing this command the forked repository present on your github account of which the link you have given will be cloned into your local system in the specified folder, which means a copy of the forked repository would be available in your local environment also.The specified folder will be your local repository

linked to the remote forked repository (the link that you mention of forked repo). Once your cloning is done you are ready to make changes in code files and push to the changes to your remote forked repository.

After cloning i make changes in the file according to the task specified by the owner of the repository-Gurpreet2720

2. “gedit index_1.html”. This command will open the file in the editor, where i make changes to the Html code file and save the changes.

My contribution to the file:

```
<div class="container" style="text-align: center;">
  <h1 class="h-primary center">Offer Ends in:</h1>
  <div id="countdown">
    <ul>
      <li><span id="days"></span>days</li>
      <li><span id="hours"></span>Hours</li>
      <li><span id="minutes"></span>Minutes</li>
      <li><span id="seconds"></span>Seconds</li>
    </ul>
  </div>
  <div id="content" class="emoji">
    </div>
  </div>
  <script>
    (function () {
  const second = 1000,
        minute = second * 60,
        hour = minute * 60,
        day = hour * 24;

let today = new Date(),
  dd = String(today.getDate()).padStart(2, "0"),
  mm = String(today.getMonth() + 1).padStart(2, "0"),
  yyyy = today.getFullYear(),
  nextYear = yyyy + 1,
  dayMonth = "02/24",
  birthday = dayMonth + yyyy;

today = mm + "/" + dd + "/" + yyyy;
if (today > birthday) {
  birthday = dayMonth + nextYear;
}
//end

const countDown = new Date(birthday).getTime(),
  x = setInterval(function() {

    const now = new Date().getTime(),
      distance = countDown - now;

    document.getElementById("days").innerText = Math.floor(distance / (day)),
    document.getElementById("hours").innerText = Math.floor((distance % (day)) / (hour)),
    document.getElementById("minutes").innerText = Math.floor((distance % (hour)) / (minute)),
    document.getElementById("seconds").innerText = Math.floor((distance % (minute)) / second);

    //do something later when date is reached
    if (distance < 0) {
      document.getElementById("headline").innerText = "Offer ends";
      document.getElementById("countdown").style.display = "none";
      document.getElementById("content").style.display = "block";
      clearInterval(x);
    }
    //seconds
  }, 0)
    </script>
</div>
```

3. “git status”. After saving the changes that I made to the file, i runned the git status command and it shows the index_1.html file is modified.

4. “Git commit -a -m ‘message’ ” .By typing this command, I added the modified file to the staging area and committed those changes with a commit message.

5. “Git push”. To publish the local commits to the remote forked repository, I typed the git push command.

After completing the 5 steps, Our remote forked repository has all the local commits and changes that we made to the index_1.html file.

Now for the review and merging of the changes in the original repository-

“[Group08-Chitkara-University/2110990535](#)” from the forked repository-

“[Haraksh-CU/2110990535](#)” on github,

I open the pull request:

The screenshot shows a GitHub repository page for 'Haraksh-CU / 2110990535'. The repository is public and was forked from 'Group08-Chitkara-University/2110990535'. The main interface includes navigation tabs for Code, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below these are buttons for Go to file, Add file, and Code. A 'Contribute' button is highlighted with a tooltip stating 'This branch is 1 commit ahead of Group08-Chitkara-University:master.' It also says 'Open a pull request to contribute your changes upstream.' A green 'Open pull request' button is visible. On the right side, there are sections for About (no description), Statistics (0 stars, 0 watching, 1 fork), Releases (no releases), Packages (no packages), and Languages. At the bottom, there's a note to add a README and a 'Add a README' button.

Click on contribute then click on “Open pull request”.

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

The screenshot shows the GitHub pull request creation interface. At the top, it says "base repository: Group08-Chitkara-University/2110990535" and "base: master". A green checkmark indicates "Able to merge". Below this, a message states "index_1.html file in main folder is modified by Haraksh Singh." and "Index_1.html file modified, and pull request is open." There is a text area for writing a description, which contains "Index_1.html file modified, and pull request is open." A checkbox for "Allow edits by maintainers" is checked. A green "Create pull request" button is at the bottom right. A note at the bottom left says "Remember, contributions to this repository should follow our [GitHub Community Guidelines](#)".

**I added some comments and clicked on the create pull request button.
After clicking a pull request is opened and a notification is sent to the
Original repository, that is to "[Group08-Chitkara-University/2110990535](#)".**

**After that the owner of the original repository, who is my teammate
Gurpreet2720, merges the pull request and the pull request gets closed.**

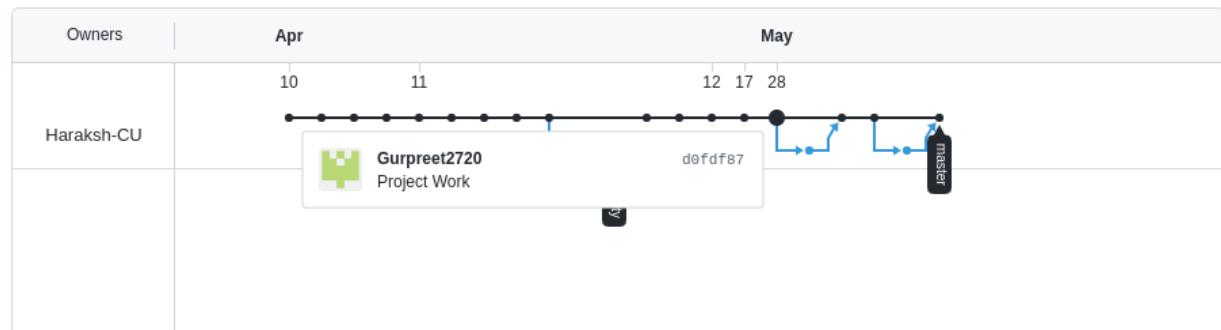
The screenshot shows the GitHub pull request details page for pull request #1. The title is "index_1.html file in main folder is modified by Haraksh Singh. #1". It is labeled as "Merged" by "Gurpreet2720" 4 minutes ago. The conversation shows a comment from "Haraksh-CU" and a merge commit from "Gurpreet2720". The pull request has +60 -2 reviews. On the right, there are sections for Reviewers (No reviews), Assignees (No one assigned), Labels (None yet), Projects (None yet), Milestone (No milestone), and Development (Successfully merging this pull request may close these issues). A note at the bottom says "If you wish, you can delete this fork of [Group08-Chitkara-University/2110990535](#) in the [settings](#)."

**After merging the pull request sent through my repository “[Haraksh-CU/2110990535](#)”. The changes that I made to index_1.html file as a commit in the forked repository present on my account, now that commit also reflects on the owner repository as well
So, through pull requests we can contribute to other people’s repositories.**

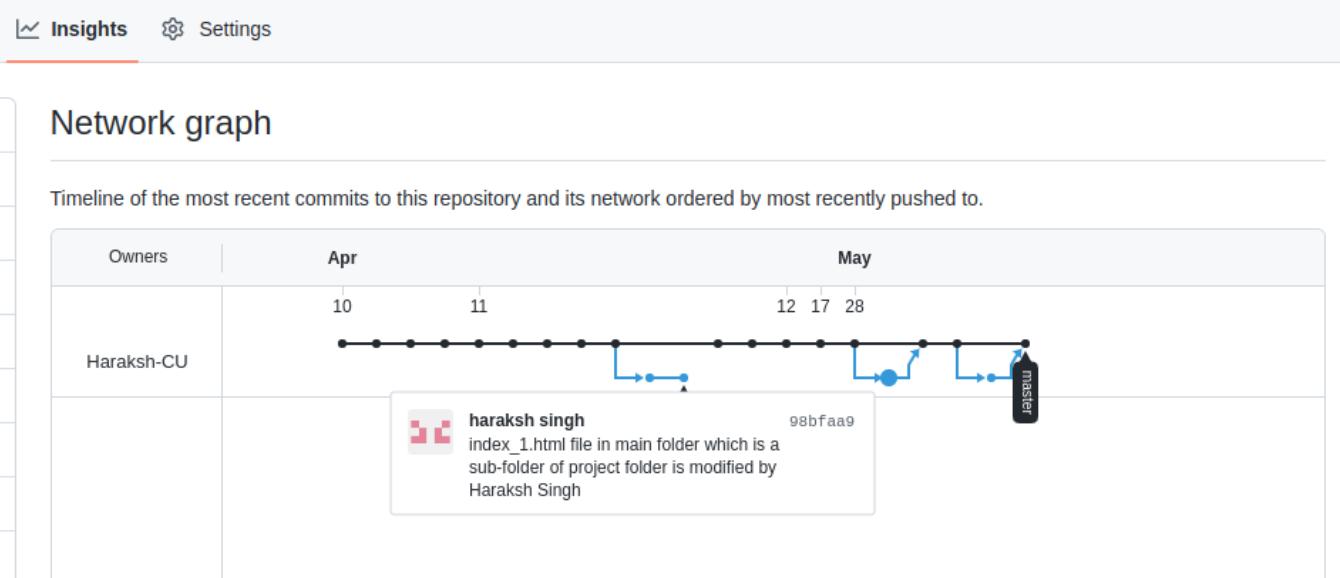
Network graph of the forked repository “[Haraksh-CU/2110990535](#)” is as follows:

Network graph

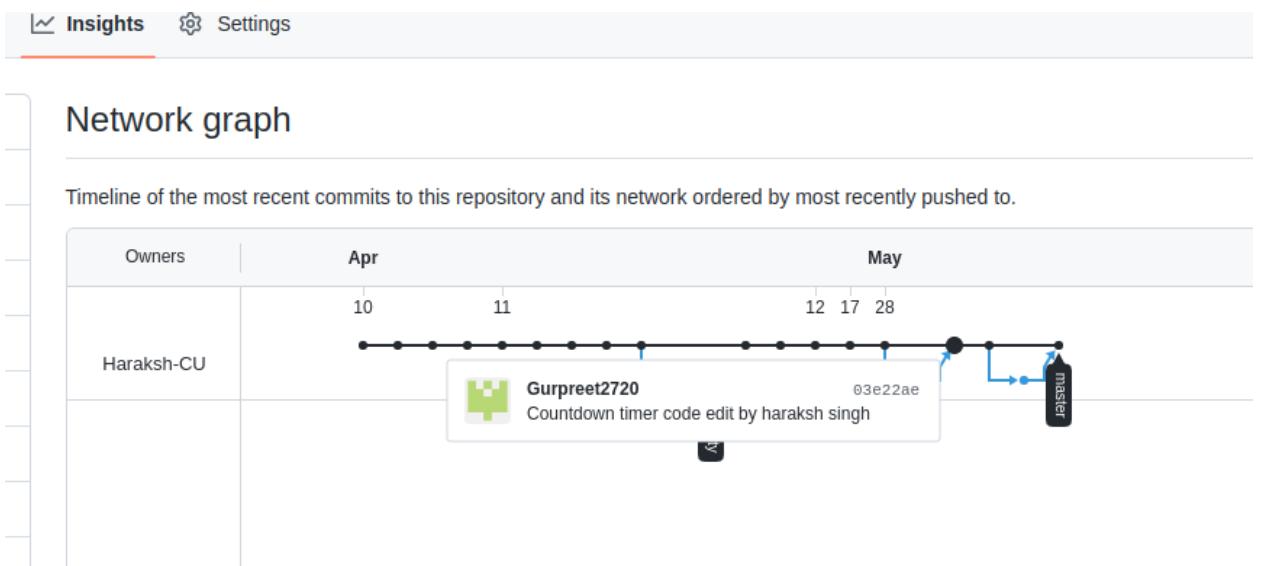
Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.



Index_1.html file modified by me:



Pull request merged by Gurpreet2720. network graph of forked repository:



2. Repository- [Group08-Chitkara-University/2110990540](#) owned by hamza0540.

Step1- Fork repository , by forking a copy of the above repository appeared on my account.

Forked repository of the above repository is as follows:

The screenshot shows the forked repository page for 'Haraksh-CU / 2110990540'. The repository is public and was forked from 'Group08-Chitkara-University/2110990540'. The main branch is 'main'. There is 1 branch and 0 tags. The repository is up to date with the upstream repository. Recent commits by 'hamza0540' include a merge pull request from 'Group08-Chitkara-University#3' and changes to 'TASK 2.html' and 'Task.docx'.

Step2- After i forked the repository, opened the terminal on my system, and typed the following commands in the folder where i want to clone the forked remote repository:

```
m2m-aksh@mind2minds-aksh:~/hamza-task2-project$ git clone https://github.com/Haraksh-CU/2110990540
Cloning into '2110990540'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 6 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), 2.70 MiB | 1.29 MiB/s, done.
m2m-aksh@mind2minds-aksh:~/hamza-task2-project$ ls
2110990540
m2m-aksh@mind2minds-aksh:~/hamza-task2-project$ cd 2110990540
m2m-aksh@mind2minds-aksh:~/hamza-task2-project/2110990540$ ls
'TASK 2.html'  Task.docx
m2m-aksh@mind2minds-aksh:~/hamza-task2-project/2110990540$ gedit 'TASK 2.html'
m2m-aksh@mind2minds-aksh:~/hamza-task2-project/2110990540$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
    (use "git restore <file>..." to discard changes in working directory)
      modified:   TASK 2.html

no changes added to commit (use "git add" and/or "git commit -a")
m2m-aksh@mind2minds-aksh:~/hamza-task2-project/2110990540$ git commit -a -m "task-2.html file modified by Haraksh Singh"
[main 38f9525] task-2.html file modified by Haraksh Singh
 1 file changed, 2 insertions(+), 2 deletions(-)
m2m-aksh@mind2minds-aksh:~/hamza-task2-project/2110990540$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
m2m-aksh@mind2minds-aksh:~/hamza-task2-project/2110990540$ git push
Username for 'https://github.com': Haraksh-CU
Password for 'https://Haraksh-CU@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 6 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 398 bytes | 398.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Haraksh-CU/2110990540
  6bbiba2..38f9525  main -> main
m2m-aksh@mind2minds-aksh:~/hamza-task2-project/2110990540$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
m2m-aksh@mind2minds-aksh:~/hamza-task2-project/2110990540$ git log --oneline
38f9525 (HEAD -> main, origin/main, origin/HEAD) task-2.html file modified by Haraksh Singh
6bbiba2 Task 2 Project File
```

Commands: 1. “git clone https://github.com/Haraksh-CU/2110990540.git”. By typing this command the forked repository present on your github account of which the link you have given will be cloned into your local system in the specified folder, which means a copy of the forked repository would be available in your local environment also. The specified folder will be your local repository linked to the remote forked repository (the link that you mention of forked repo). Once your cloning is done you are ready to make changes in code files and push to the changes to your remote forked repository.

After cloning i make changes in the file according to the task specified by the owner of the repository-hamza0540

2. “gedit Task 2.html”. This command will open the file in the editor, where i make changes to the Html code file and save the changes.

My contribution to the file:
Changed the background color of the body.

3. “git status”. After saving the changes that I made to the file, i runned the git status command and it shows the Task 2.html file is modified.

4. “Git commit -a -m ‘message’ ” .By typing this command, I added the modified file to the staging area and committed those changes with a commit message.

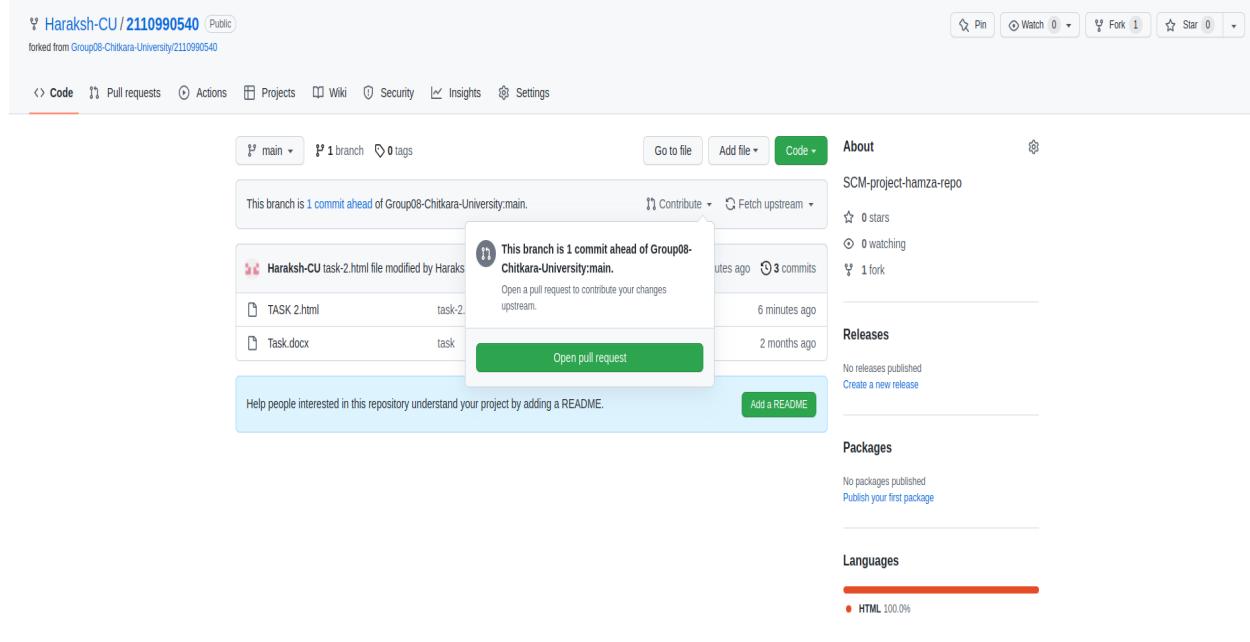
5. “Git push”. To publish the local commits to the remote forked repository, I typed the git push command.

After completing the 5 steps, Our remote forked repository has all the local commits and changes that we made to the Task 2.html file.

Now for the review and merging of the changes in the original repository-“[Group08-Chitkara-University/2110990540](#)” from the forked repository-“[Haraksh-CU/2110990540](#)” on github,

I open the pull request:

Click on contribute then click on “Open pull request”.



The screenshot shows a GitHub repository page for "Haraksh-CU/2110990540". The main navigation bar includes "Code", "Pull requests", "Actions", "Projects", "Wiki", "Security", "Insights", and "Settings". The "Code" tab is selected. The repository is public and was forked from "Group08-Chitkara-University/2110990540". The repository has 1 branch ahead of the main branch. A prominent green "Open pull request" button is visible on the right side of the page, indicating a merge request is available.

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

[Open a pull request](#)

Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks.

I added some comments and clicked on the create pull request button.
After clicking a pull request is opened and a notification is sent to the Original repository, that is to "[Group08-Chitkara-University/2110990540](#)".

The screenshot shows a GitHub pull request page for a repository. At the top, there's a navigation bar with links for Pull requests (1), Actions, Projects, Wiki, Security, and Insights. Below the navigation, the title of the pull request is "task-2.html file modified by Haraksh Singh #1". A green "Open" button is visible next to the title. A message from "Haraksh-CU" is displayed, stating "task2.html file modified." under a commit labeled "task-2.html file modified by Haraksh Singh". The commit hash is 38f9525. Below the commit, there's a note: "Add more commits by pushing to the main branch on [Haraksh-CU/2110990540](#)". A prominent green button with a checkmark icon and the text "This branch has no conflicts with the base branch" is shown, along with the subtext "Only those with write access to this repository can merge pull requests." At the bottom of the interface, there are "Write" and "Preview" tabs, a rich text editor toolbar, a comment input field ("Leave a comment"), and a file attachment section ("Attach files by dragging & dropping, selecting or pasting them."). Two buttons are at the bottom right: "Close pull request" and "Comment".

After that the owner of the original repository, who is my teammate hamza0540, merges the pull request and the pull request gets closed.
After merging the pull request sent through my repository "[Haraksh-CU/2110990540](#)". The changes that I made to Task 2.html file as a

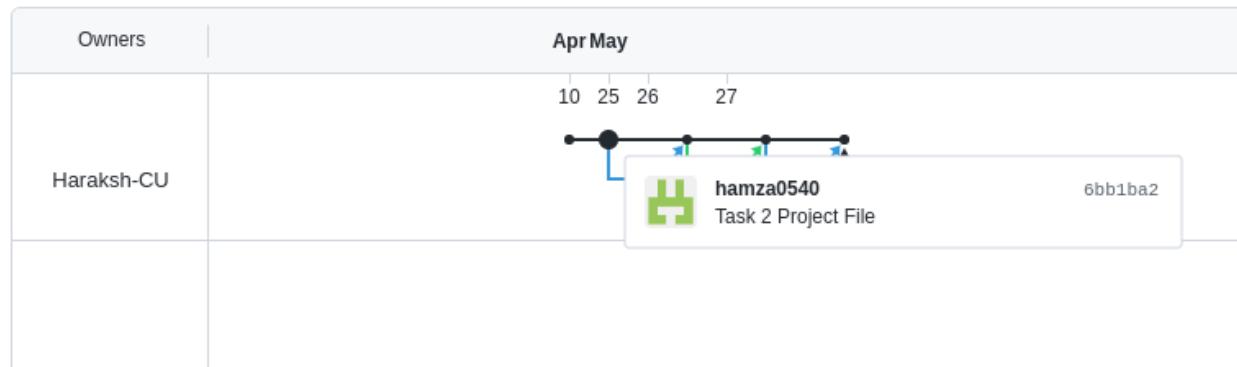
commit in my repository present on my account, now that commit also reflects on the owner repository-

“[Group08-Chitkara-University/2110990540](#)” as well. So, through pull requests we can contribute to other people’s repositories.

Network graph of the forked repository “[Haraksh-CU/2110990540](#)” is as follows:

Network graph

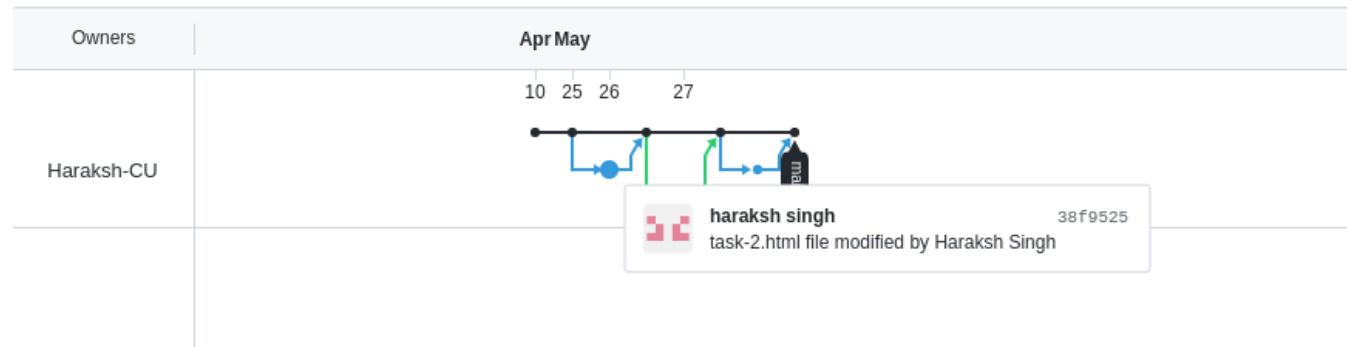
Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.



Task 2.html file modified by me:

Network graph

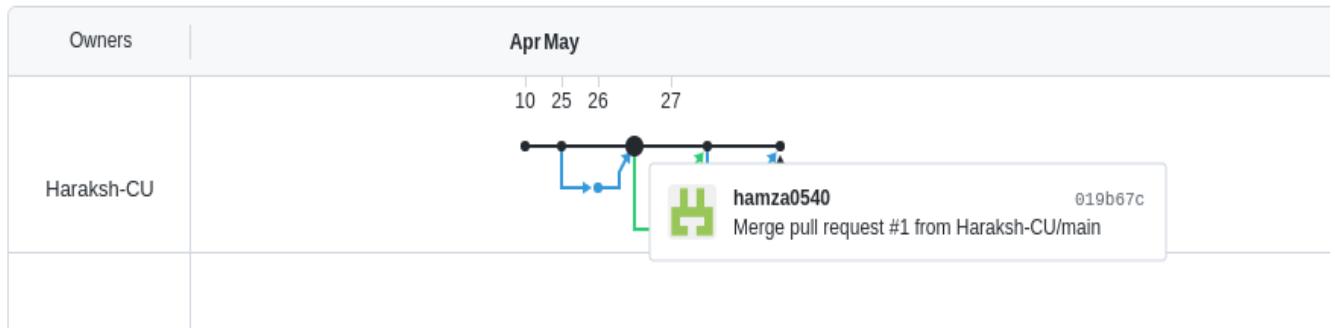
Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.



Pull request merged by hamza0540 network graph:

Network graph

Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.



3. Repository- [Group08-Chitkara-University/2110990549](#) owned by HarishDharpure.

Step1- Fork repository , by forking a copy of the above repository appeared on my account.

Forked repository of the above repository is as follows:

This screenshot shows the forked repository page for Haraksh-CU / 2110990549. The page indicates that the main branch is up to date with Group08-Chitkara-University/2110990549:main. A list of 7 commits by HarishDharpure is displayed, all made 4 days ago. The commits include changes to media, Secondary page responsive.css, Single Playlist Screen Styles.css, Single Playlist Screen.html, Stylesheet_main.css, index.html, and primary page responsive.css. A button at the bottom right says 'Add a README'.

Step2- After i forked the repository, opened the terminal on my system, and typed the following commands in the folder where i want to clone the forked remote repository:

```
m2m-aksh@mind2minds-aksh: $ cd harish-music-online-clone
m2m-aksh@mind2minds-aksh:~/harish-music-online-clone$ git clone https://github.com/Haraksh-CU/2110990549.git
Cloning into '2110990549'...
remote: Enumerating objects: 76, done.
remote: Counting objects: 100% (76/76), done.
remote: Compressing objects: 100% (72/72), done.
remote: Total 76 (delta 3), reused 76 (delta 3), pack-reused 0
Receiving objects: 100% (76/76), 7.40 MiB | 4.49 MiB/s, done.
Resolving deltas: 100% (3/3), done.
m2m-aksh@mind2minds-aksh:~/harish-music-online-clone$ ls
2110990549
m2m-aksh@mind2minds-aksh:~/harish-music-online-clone$ cd 2110990549
m2m-aksh@mind2minds-aksh:~/harish-music-online-clone/2110990549$ ls
index.html           'Single Playlist Screen.html'
.media               'Single Playlist Screen Styles.css'
'primary page responsive.css'   Stylesheet_main.css
'Secondary page responsive.css'
m2m-aksh@mind2minds-aksh:~/harish-music-online-clone/2110990549$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
m2m-aksh@mind2minds-aksh:~/harish-music-online-clone/2110990549$ git log --oneline
c308922 (HEAD -> main, origin/main, origin/HEAD) Online music player
m2m-aksh@mind2minds-aksh:~/harish-music-online-clone/2110990549$ gedit index.html
m2m-aksh@mind2minds-aksh:~/harish-music-online-clone/2110990549$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   index.html

no changes added to commit (use "git add" and/or "git commit -a")
m2m-aksh@mind2minds-aksh:~/harish-music-online-clone/2110990549$ git commit -a -m "Added footer html code in index.html file by Haraksh Singh"
[main b3f3f5b] Added footer html code in index.html file by Haraksh Singh
 1 file changed, 70 insertions(+), 2 deletions(-)
m2m-aksh@mind2minds-aksh:~/harish-music-online-clone/2110990549$ git log --oneline
b3f3f5b (HEAD -> main) Added footer html code in index.html file by Haraksh Singh
c308922 (origin/main, origin/HEAD) Online music player
m2m-aksh@mind2minds-aksh:~/harish-music-online-clone/2110990549$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
m2m-aksh@mind2minds-aksh:~/harish-music-online-clone/2110990549$ git push
Username for 'https://github.com': Haraksh-CU
Password for 'https://Haraksh-CU@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
```

Commands: 1. "<https://github.com/Haraksh-CU/2110990549.git>". By typing this command the forked repository present on your github account of which the link you have given will be cloned into your local system in the specified folder, which means a copy of the forked repository would be available in your local environment also. The specified folder will be your local repository linked to the remote forked repository (the link that you mention of forked repo). Once your cloning is done you are ready to make changes in code files and push the changes to your remote forked repository.
After cloning i make changes in the file according to the task specified by the owner of the repository-HarishDharpure

2. “gedit index.html”. This command will open the file in the editor, where i make changes to the Html code file and save the changes.

My contribution to the file:

```
<!-- this is the footer part. -->
<!-- its position will be fixed to the screen bottom. -->
<footer>
  <div class="active-song-description">
    <!-- song image -->
    <div id="song-image">
      
    </div>
    <!-- song name and author -->
    <div class="song-desc">
      <div>
        Imagine by John
      </div>
      <div>
        John Lennon
      </div>
      <!-- heart icon and ban icon -->
    </div>
    <div class="heart-and-ban-icon">
      <span>
        <i class="fas fa-heart"></i>
      </span>
      <span>
        <i class="fas fa-ban"></i>
      </span>
    </div>
  </div>
  <!-- these are the main player controls -->
  <div class="player">
    <div class="controls">
      <div><i class="fas fa-random"></i></div>
      <div><i class="fas fa-step-backward"></i></div>
      <div><i class="fas fa-pause-circle"></i></div>
      <div><i class="fas fa-step-forward"></i></div>
      <div><i class="fas fa-redo"></i></div>
    </div>
    <!-- this is the slider -->
    <div id="slider">
      <!-- current time -->
      <div class="time">
        0:05
      </div>
      <div class="slidecontainer">
        <input type="range" min="0" max="100" value="0" class="slider" id="myRange">
      </div>
      <!-- total time -->
      <div class="time">
        4:44
      </div>
    </div>
  </div>
  <!-- other icons including the volume slider and all -->
  <div class="extras">
    <div>
      <i class="fas fa-list-ul"></i>
    </div>
    <div>
      <i class="fas fa-laptop"></i>
    </div>
    <div>
      <i class="fas fa-volume-up"></i>
    </div>
    <div class="slidecontainer" style="width:30%;">
      <input type="range" min="0" max="100" value="0" class="slider" id="myRange" style="margin-top:0px;">
    </div>
    <div>
      <i class="fas fa-expand-alt"></i>
    </div>
  </div>
</footer>
```

3. “git status”. After saving the changes that I made to the file, i runned the git status command and it shows the index.html file is modified.

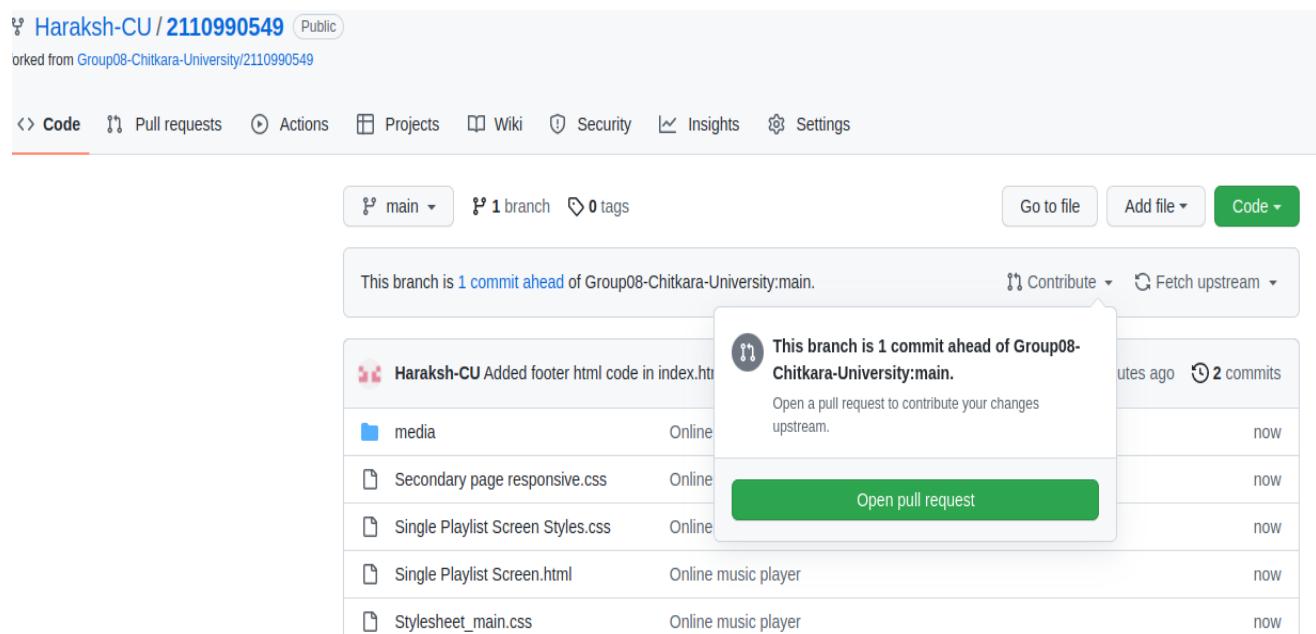
4. “Git commit -a -m ‘message’ ” .By typing this command, I added the modified file to the staging area and committed those changes with a commit message.

5. “Git push”. To publish the local commits to the remote forked repository, I typed the git push command.

After completing the 5 steps, Our remote forked repository has all the local commits and changes that we made to the ‘index.html’ file.

**Now for the review and merging of the changes in the original repository- “[Group08-Chitkara-University/2110990549](#)” from the forked repository- “[Haraksh-CU/2110990549](#)” on github,
I open the pull request:**

Click on contribute then click on “Open pull request”.



Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

Discuss and review the changes in this comparison with others. [Learn about pull requests](#)

[Create pull request](#)

-o 1 commit 1 file changed 1 contributor

Commits on May 26, 2022

Added footer html code in index.html file by Haraksh Singh

Haraksh-CU committed 5 minutes ago

[b3f3f5b](#)

Showing 1 changed file with 70 additions and 2 deletions.

Split Unified

index.html

		72	index.html
905	905	<!-- main part of the page is over. -->	
906	906	<!-- this is the footer part. -->	
907	907	<!--Footer Footer Footer START-->	
908		-	
908		+ <!-- its position will be fixed to the screen bottom. -->	
909		+ <footer>	
910		+ <div class="active-song-description">	

I added some comments and clicked on the create pull request button.
After clicking a pull request is opened and a notification is sent to the Original repository, that is to “[Group08-Chitkara-University/2110990549](#)”.

Group08-Chitkara-University / [2110990549](#) Public

Edit Pins Watch 1 Fork 2 Star 0

Code Issues Pull requests 1 Actions Projects Wiki Security Insights

Added footer html code in index.html file by Haraksh Singh #2

Open Haraksh-CU wants to merge 1 commit into [Group08-Chitkara-University:main](#) from [Haraksh-CU:main](#)

Conversation 0 Commits 1 Checks 0 Files changed 1 +70 -2

Haraksh-CU commented 3 minutes ago Member ...

Wrote the code of footer of online music project in index.html file.

Added footer html code in index.html file by Haraksh Singh b3f3f5b

Add more commits by pushing to the main branch on [Haraksh-CU/2110990549](#).

This branch has no conflicts with the base branch Only those with write access to this repository can merge pull requests.

Write Preview

Leave a comment

Reviewers
No reviews
Still in progress? Convert to draft

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone

Deployment

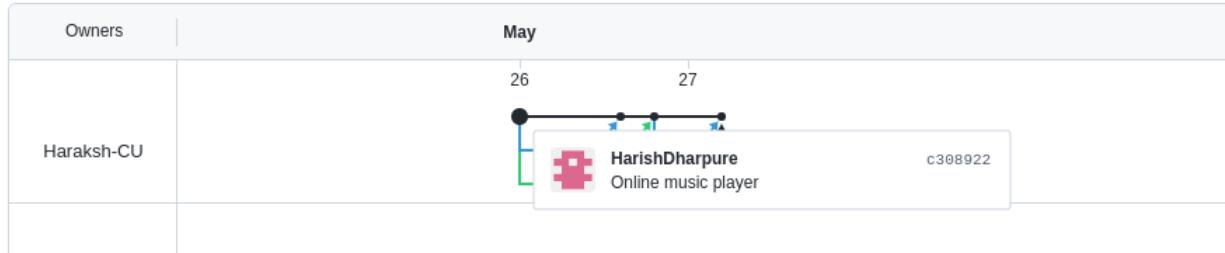
After that the owner of the original repository, who is my teammate HarishDharpure, merged the pull request and the pull request got closed.

After merging the pull request sent through my repository “[Haraksh-CU/2110990549](#)”. The changes that I made to Task 2.html file as a commit in my repository present on my account, now that commit also reflects on the owner repository- “[Group08-Chitkara-University/2110990549](#)” as well So, through pull requests we can contribute to other people’s repositories.

Network graph of the forked repository “[Haraksh-CU/2110990549](#)” is as follows:

Network graph

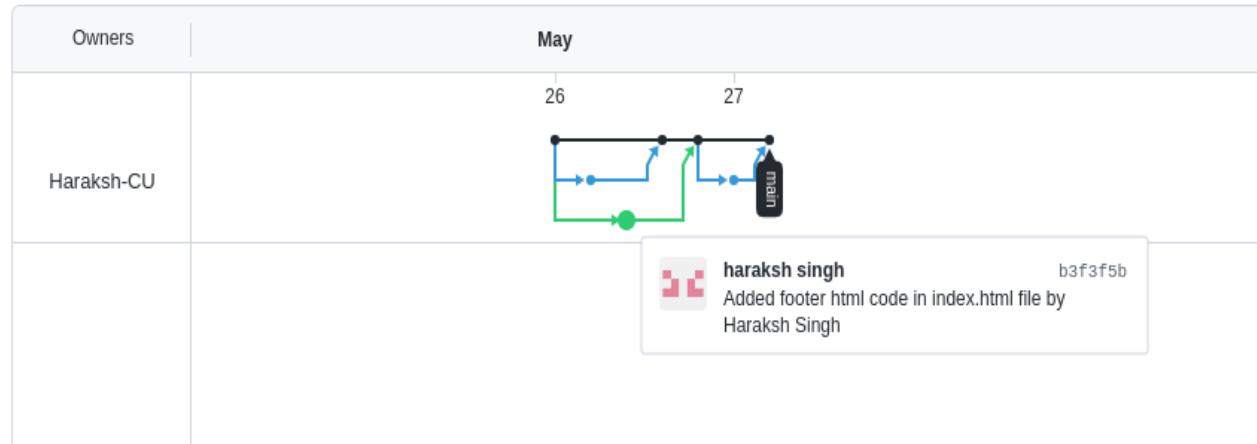
Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.



index.html file modified by me:

Network graph

Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.



Pull request merged by HarishDharpure. network graph of forked repository:

Network graph

Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.

