

Index no 23011063

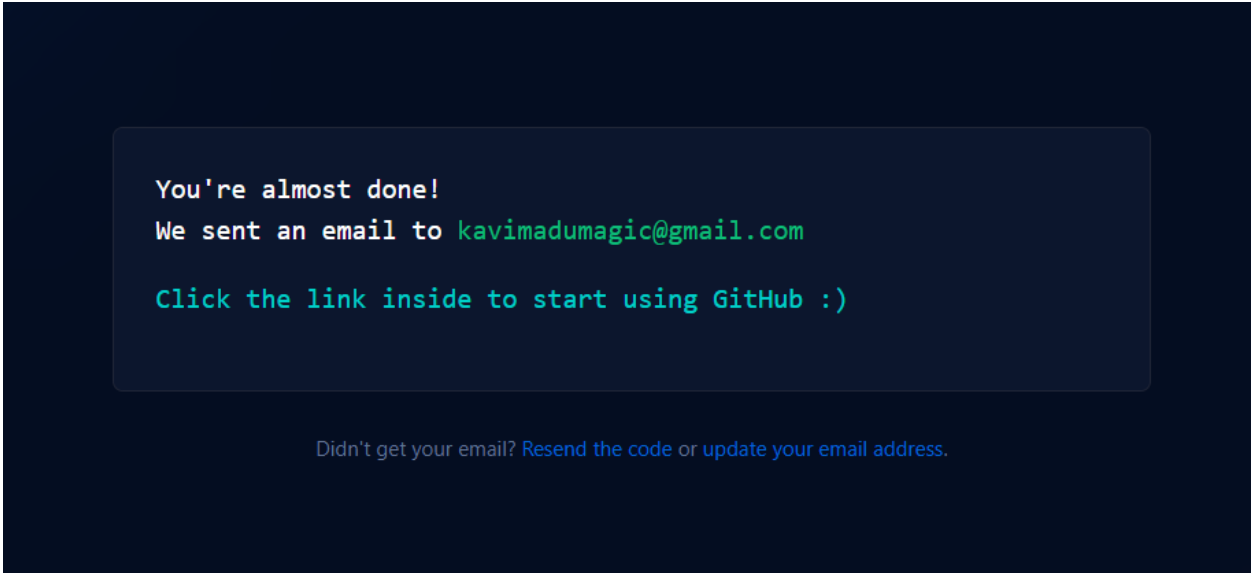
Name M.P.S.K.Madushani

Tutorial 1

TUTORIAL 1: SETTING UP THE REPOSITORY

1.1 FAMILIARIZING WITH GITHUB

- Step 1 : Create your github account

A screenshot of a GitHub email confirmation message. The background is dark blue. A lighter blue rounded rectangle contains the text: "You're almost done!", "We sent an email to kavimadumagic@gmail.com", and "Click the link inside to start using GitHub :)". Below this rectangle, centered, is the text "Didn't get your email? Resend the code or update your email address." in a smaller font.

You're almost done!
We sent an email to kavimadumagic@gmail.com
Click the link inside to start using GitHub :)

Didn't get your email? [Resend the code](#) or [update your email address](#).

Almost done, @supuniprojects!

To complete your GitHub sign up, we just need to verify your email address:
kavimadumagic@gmail.com.

[Verify email address](#)

Once verified, you can start using all of GitHub's features to explore, build, and share projects.

Button not working? Paste the following link into your browser:

https://github.com/users/supuniprojects/emails/165120523/confirm_verification/b094e89b67a87fd03fa3a857d23e97dc4343bc68

[Email preferences](#) · [Terms](#) · [Privacy](#) · [Sign in to GitHub](#)

- **Step 2 : Create a repository**

The screenshot shows the GitHub interface for a newly created repository named 'Supuni_HelloWorldLabs' under the user 'supuniprojects'. The repository is currently empty, with only an initial commit visible. The commit message is 'Initial commit' and it was made 3 minutes ago. The repository has a README.md file, which is displayed in the main content area. The README content reads: 'Supuni_HelloWorldLabs' followed by 'This is a project to familiar with GIT hub.' The right sidebar contains sections for 'About', 'Releases', and 'Packages', all indicating that no releases or packages have been published yet. The bottom of the page shows the GitHub footer with copyright information and various links.

supuniprojects / Supuni_HelloWorldLabs

Unwatch 1 Star 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file Code

supuniprojects Initial commit 7d26c76 3 minutes ago 1 commit

README.md Initial commit 3 minutes ago

README.md

Supuni_HelloWorldLabs

This is a project to familiar with GIT hub.

About

This is a project to familiar with GIT hub.

Releases

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

Packages

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

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- Step 3: Branching

supuniprojects / Supuni_HelloWorldLabs

Unwatch 1 Star 0

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

Overview Yours Active Stale All branches Search branches...

Default branch

master Updated 9 minutes ago by supuniprojects Default

Your branches

HelloWorld-Initial Updated 9 minutes ago by supuniprojects 0 | 0 New pull request

Active branches

HelloWorld-Initial Updated 9 minutes ago by supuniprojects 0 | 0 New pull request

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- Step 4: Commit changes

Commits on Jun 23, 2021

Create HelloWorld.txt 429bfa9 Verified

Showing 1 changed file with 1 addition and 0 deletions. Unified Split

▼ 1 ■■■■■ HelloWorld.txt ...

... -0,0 +1 @@

1 + This file about documents of project.

HelloWorld-Ini... Supuni_HelloWorldLabs / HelloWorld.txt Go to file ...

supuniprojects Create HelloWorld.txt Latest commit 429bfa9 4 minutes ago History

1 contributor

1 lines (1 sloc) 39 Bytes Raw Blame

1 This file about documents of project.

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- Step 5: Open a pull request

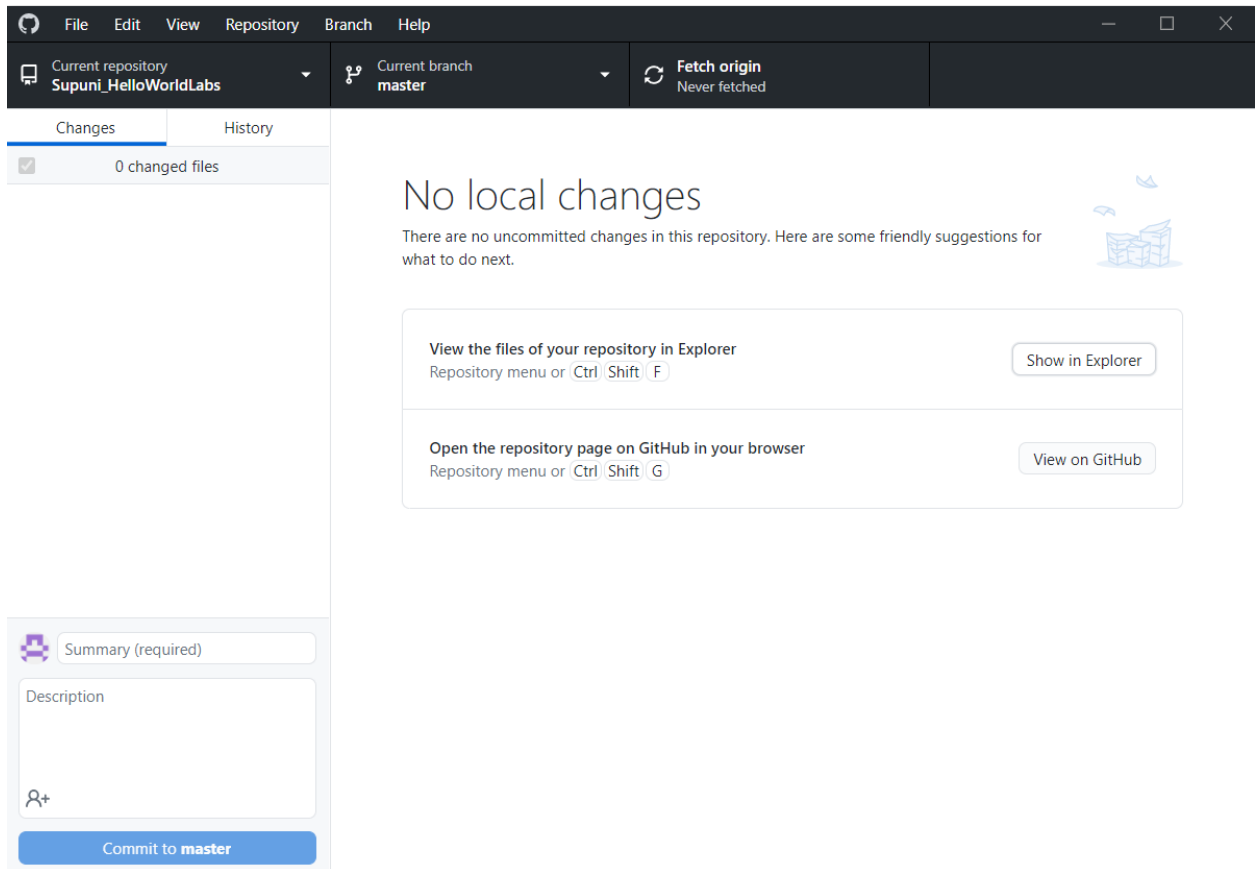
The screenshot shows a GitHub pull request titled "HelloWorld.asm created #1" for the repository "supuniprjects / Supuni_HelloWorldLabs". The pull request is open, showing a diff of one file changed: "Create HelloWorld.txt". The status bar indicates "+1 -0" changes. The right sidebar shows "Reviews" (No reviews), "Assignees" (No one—assign yourself), and "Labels". The bottom of the pull request shows the commit hash "429bfa9" and a "Verified" status.

- Step 6: Merge the pull request

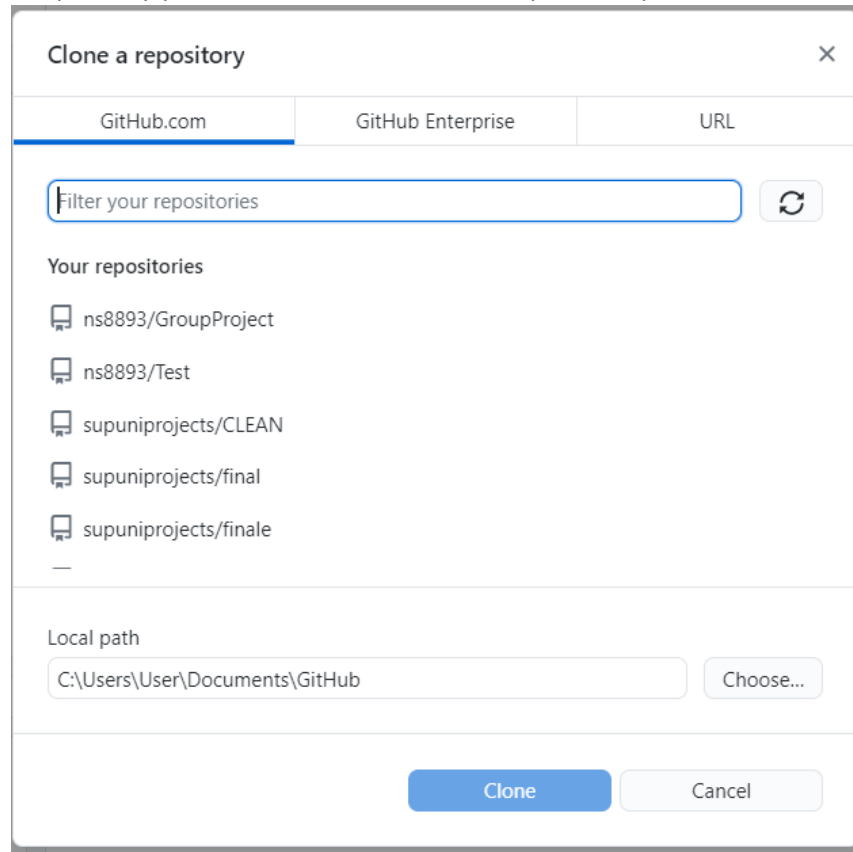
The screenshot shows the same GitHub pull request after it has been merged. The status bar now indicates "Merged". The pull request is closed, and the "HelloWorld-Initial" branch has been deleted. The right sidebar shows "Reviews" (No reviews), "Assignees" (No one—assign yourself), "Labels" (None yet), "Projects" (None yet), "Milestone" (No milestone), "Linked issues" (Successfully merging this pull request may close these issues), and "Notifications" (Unsubscribe). The bottom of the pull request shows the commit hash "9cdddf6" and a "Revert" button.

1.2 GITHUB GUI

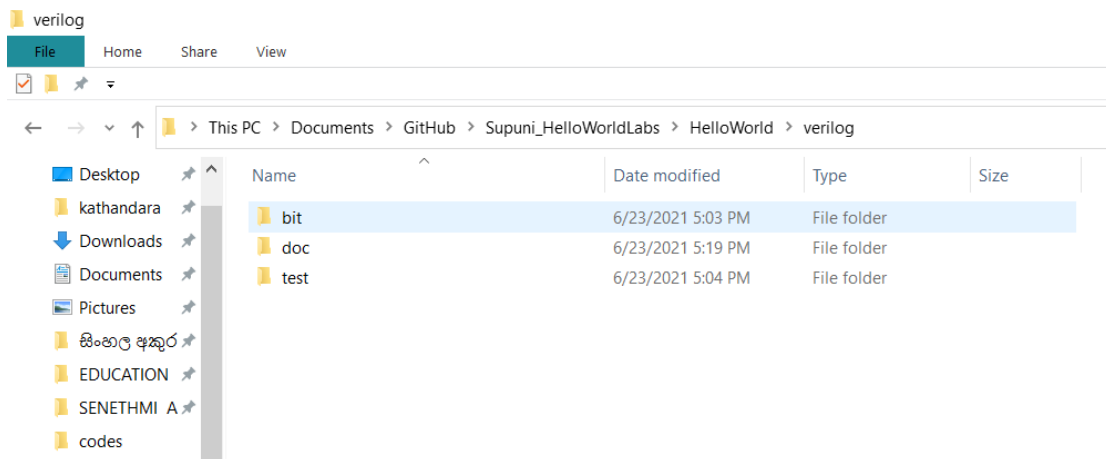
- Step 1 : Installing Github desktop



- Step 2 : Managing the repository
 - Clone the repository your created at Github.com to your computer



- Now view the repository in file explorer
- Create the following folder structure in your github folder
 - HelloWorld
 - verilog
 - doc
 - test
 - bit



supuniprjects / Supuni_HelloWorldLabs

Unwatch 1

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master 2 branches 0 tags

Go to file Add file Code

supuniprjects Merge pull request #2 from supuniprjects/HelloWorld-Initial 938ef4a 4 hours ago 8 commits

HelloWorld	summery	4 hours ago
HelloWorld.txt	Create HelloWorld.txt	5 hours ago
README.md	Initial commit	6 hours ago

README.md

Supuni_HelloWorldLabs

This is a project to familiar with GIT hub.

About

This is a project to familiar with hub.

Readme

Releases

No releases published
Create a new release

Packages

No packages published
Publish your first package

- Now drop the HelloWorld.txt file inside the c folder.

File Edit View Repository Branch Help

Current repository: Supuni_HelloWorldLabs

Current branch: HelloWorld-Initial

Fetch origin Last fetched just now

Changes 2 History

2 changed files

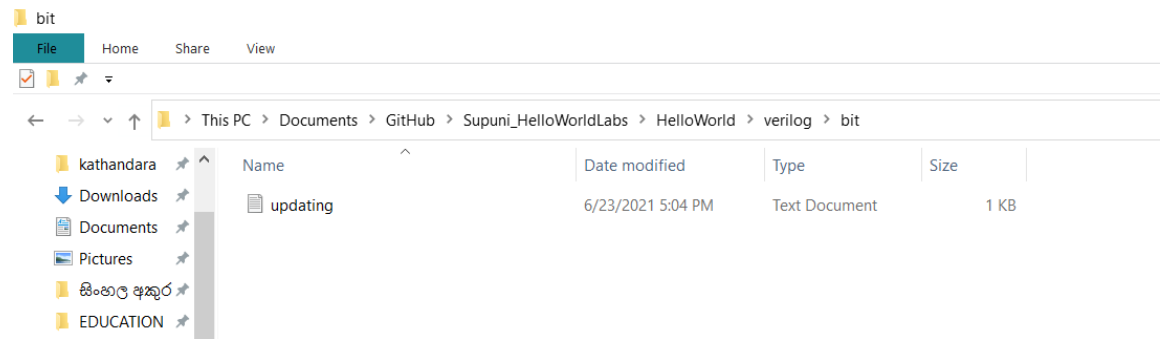
File	Changes	Diff
HelloWorld.txt	1	-This file about documents of project.
HelloWorld\c\HelloWorld.txt	2	-github

Summary (required)

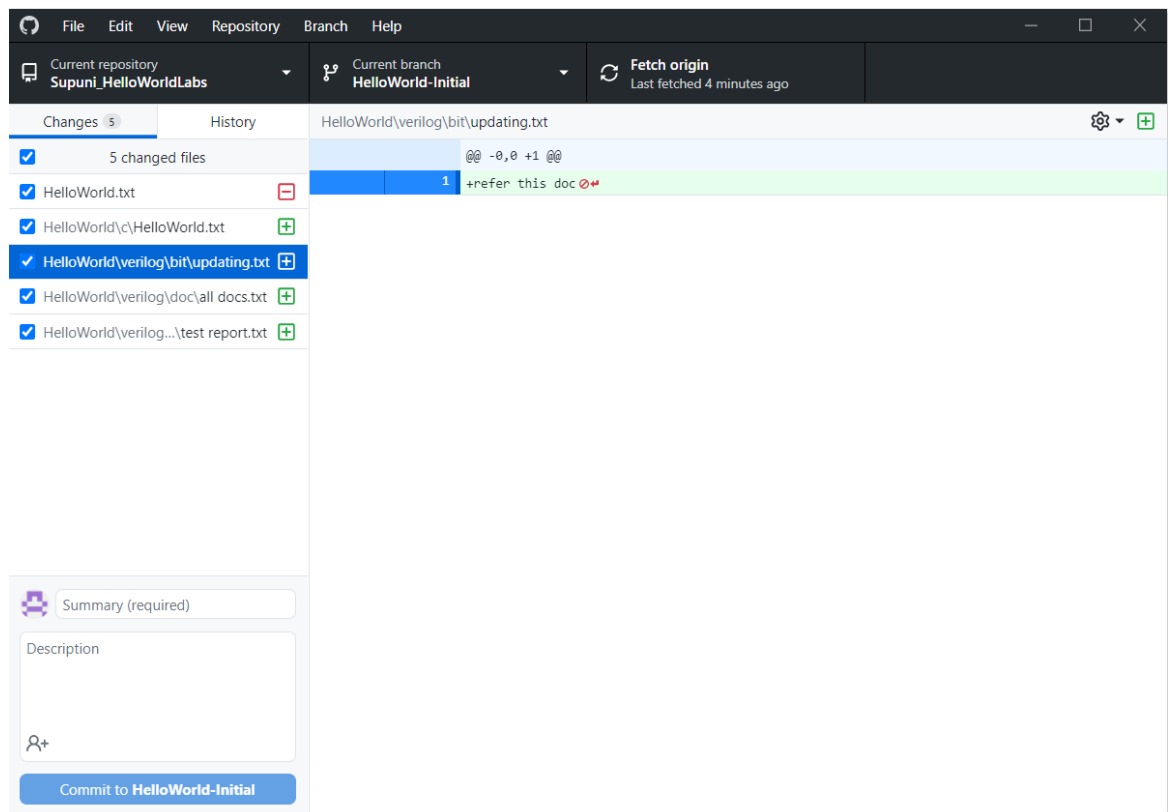
Description

Commit to HelloWorld-Initial


- Create some text files inside other folders as well




- Now on the GUI you can see these added files



- It shows that we have moved the HelloWorld.txt file
- Add a “Summary” – Moved HelloWorld.txt file to the C folder

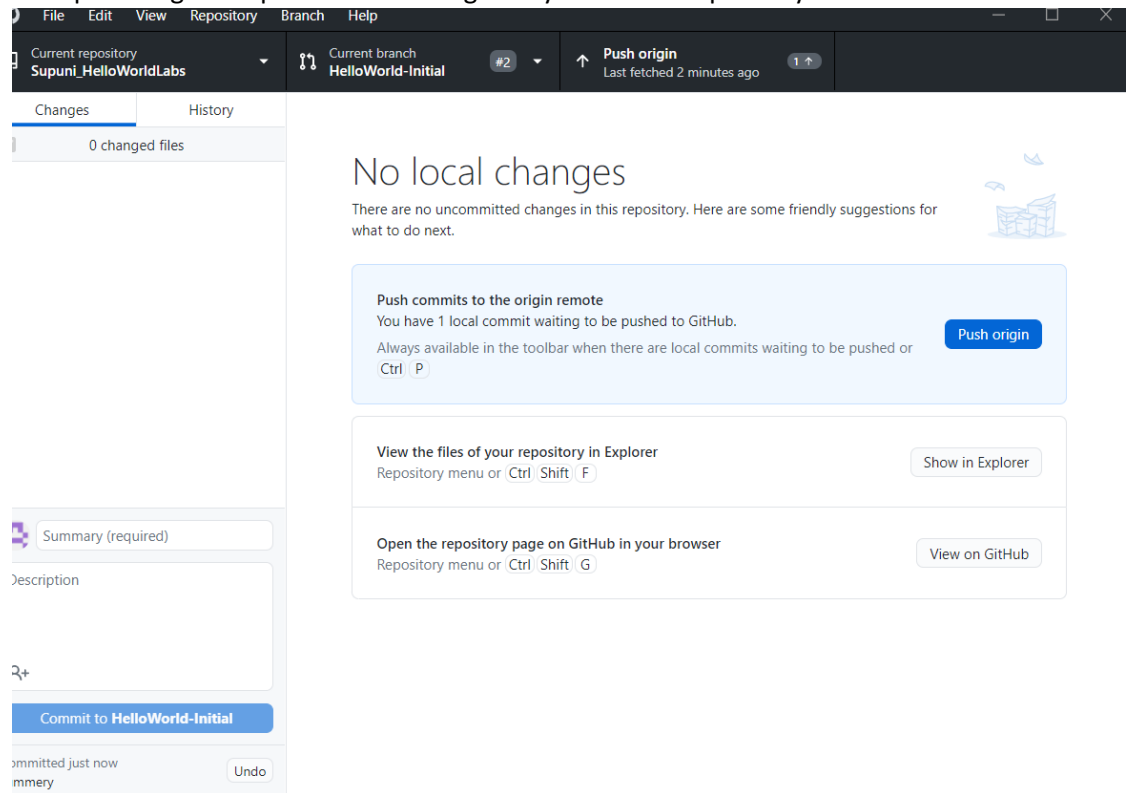


Moved HelloWorld.txt file to the C folder

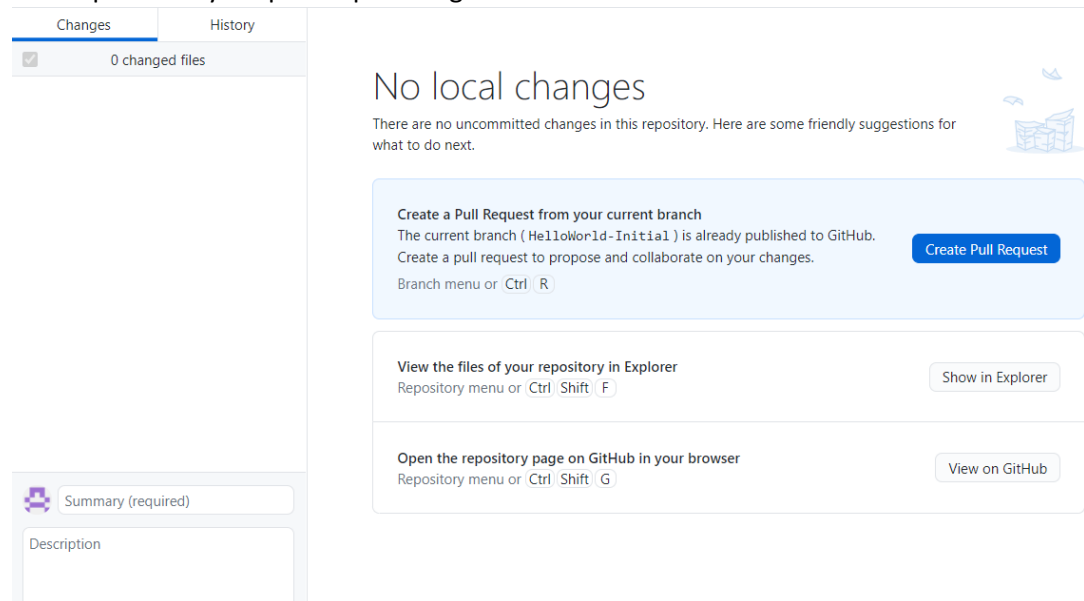


[Commit to HelloWorld-Initial](#)

- Now Commit to the Current branch
- Click push origin to upload these changes to your online repository.



- You can make a Pull request which will take you to the online repo from the Github desktop. Create your pull request as given in the first section.



HelloWorld2.asm created #2

supuniprjects wants to merge 3 commits into master from HelloWorld-Initial

Conversation 0 Commits 3 Checks 0 Files changed 5 +4 -0

supuniprjects commented 2 minutes ago pull request

supuniprjects added 3 commits 26 minutes ago

- Create HelloWorld1.txt Verified bfe60ca
- Update HelloWorld1.txt Verified 003a648
- summary f40e53d

Add more commits by pushing to the HelloWorld-Initial branch on supuniprjects/Supuni_HelloWorldLabs.

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.

Reviewers: No reviews, Still in progress? Convert to draft

Assignees: No one—assign yourself

Labels: None yet

Projects: None yet

Milestone: No milestone

Linked issues: None yet

Update HelloWorld1.txt Verified 003a648 None yet

summary f40e53d Projects: None yet

summary 9b2ea45 Milestone: No milestone

supuniprjects merged commit 9380f4a into master now

Pull request successfully merged and closed
You're all set—the HelloWorld-Initial branch can be safely deleted.

Write Preview H B I `< > @`

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Comment

Remember, contributions to this repository should follow our GitHub Community Guidelines.

ProTip! Add comments to specific lines under Files changed.

Notifications: Unsubscribe, You're receiving notifications because you're watching this repository.

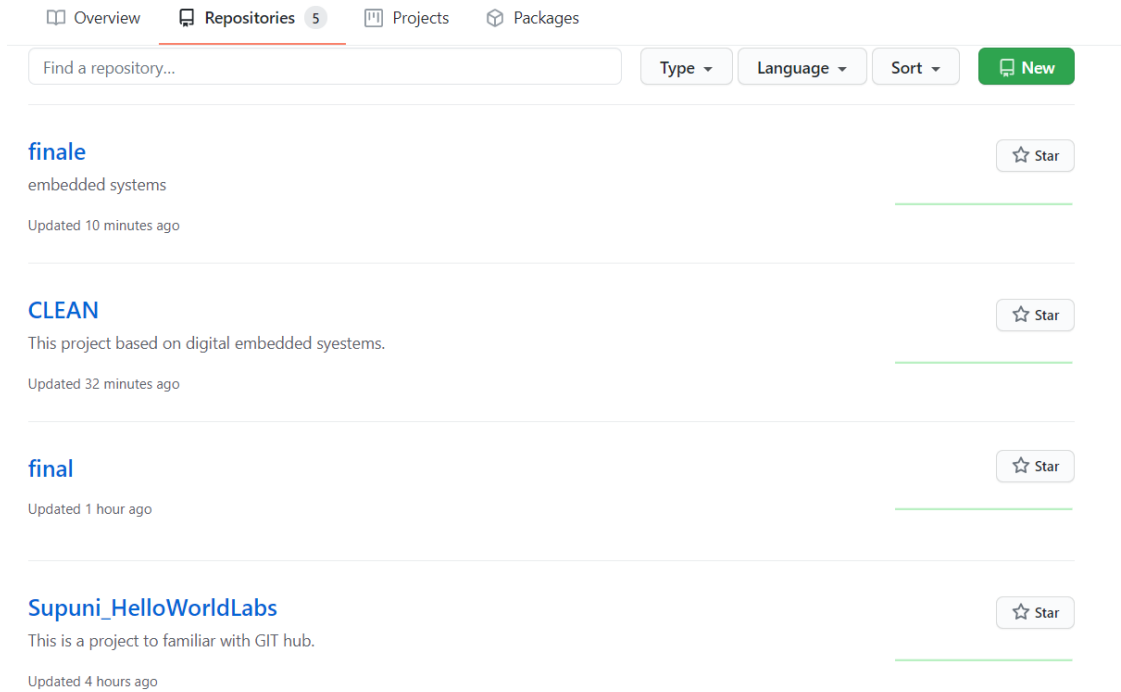
1 participant

Lock conversation

- Step 3 : Familiar yourself with Github desktop
 - <https://help.github.com/en/desktop> Please refer to the help located in the given link to overcome any issue you face.
 - Also try to use the other features available in the GUI. Get familiarize with them.

1.3 COLLABORATION

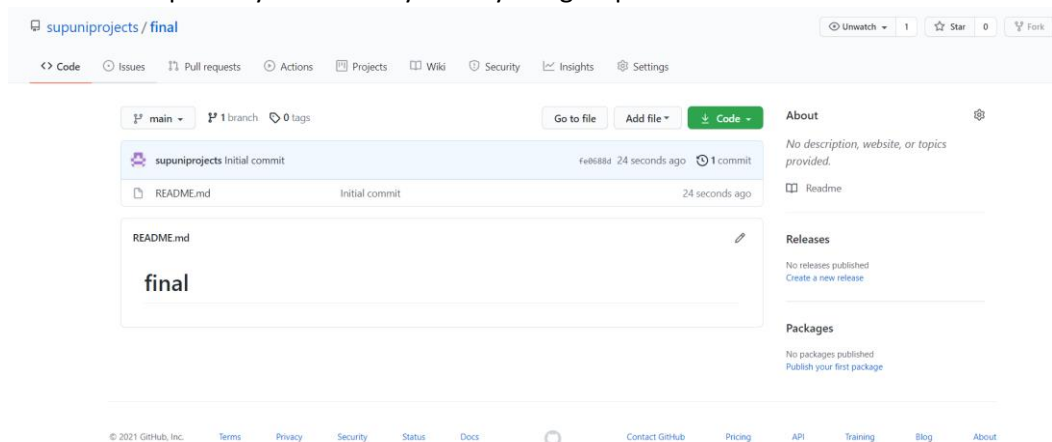
- Step 1: Creation of new repository
 - Create a public repo for your group project
 - Use a shortened name as the repository name



The screenshot shows the GitHub Repositories page for a user. At the top, there are tabs for Overview, Repositories (5), Projects, and Packages. Below the tabs is a search bar labeled "Find a repository..." and filters for Type, Language, and Sort. A green "New" button is on the right. The list of repositories includes:

- finale**: embedded systems, Updated 10 minutes ago, Star button.
- CLEAN**: This project based on digital embedded systems., Updated 32 minutes ago, Star button.
- final**: Updated 1 hour ago, Star button.
- Supuni_HelloWorldLabs**: This is a project to familiar with GIT hub., Updated 4 hours ago, Star button.

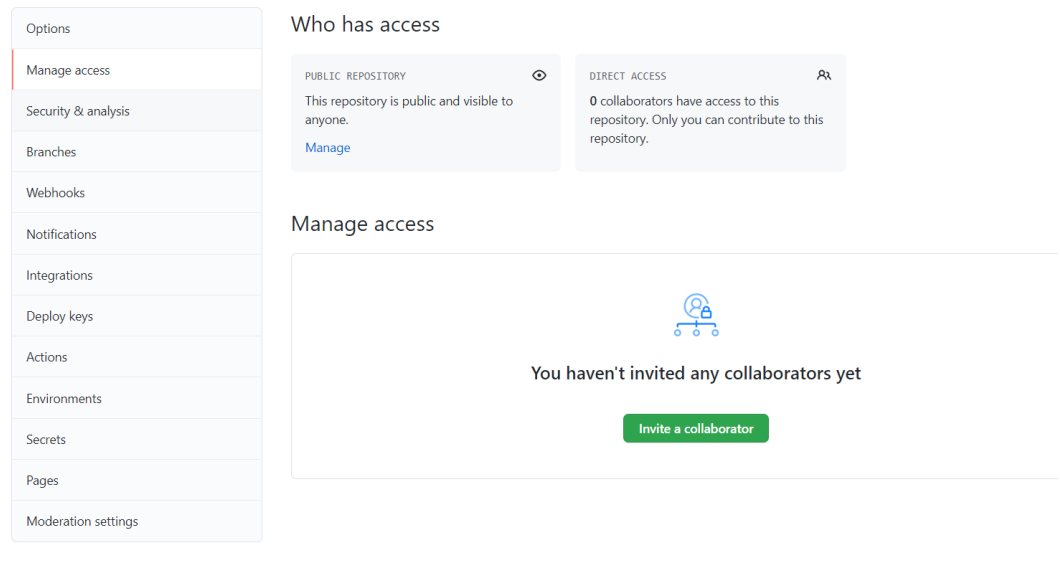
- Create this repository without any files by the group leader



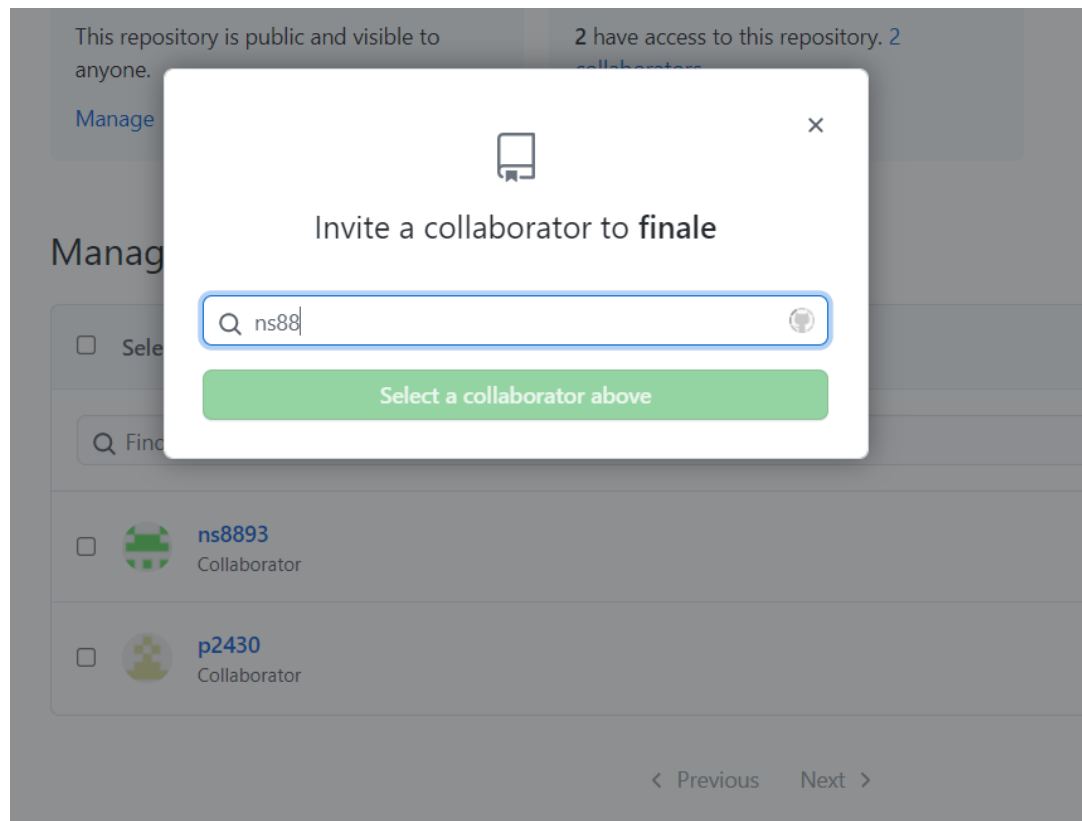
The screenshot shows the GitHub repository page for "supuniprojects / final". The repository is empty, with a message "No description, website, or topics provided." and "No releases published". The repository has 1 branch (main) and 0 tags. The README.md file is visible, containing the text "final". The repository was created 24 seconds ago by "supuniprojects".

- Step 2: Collaboration

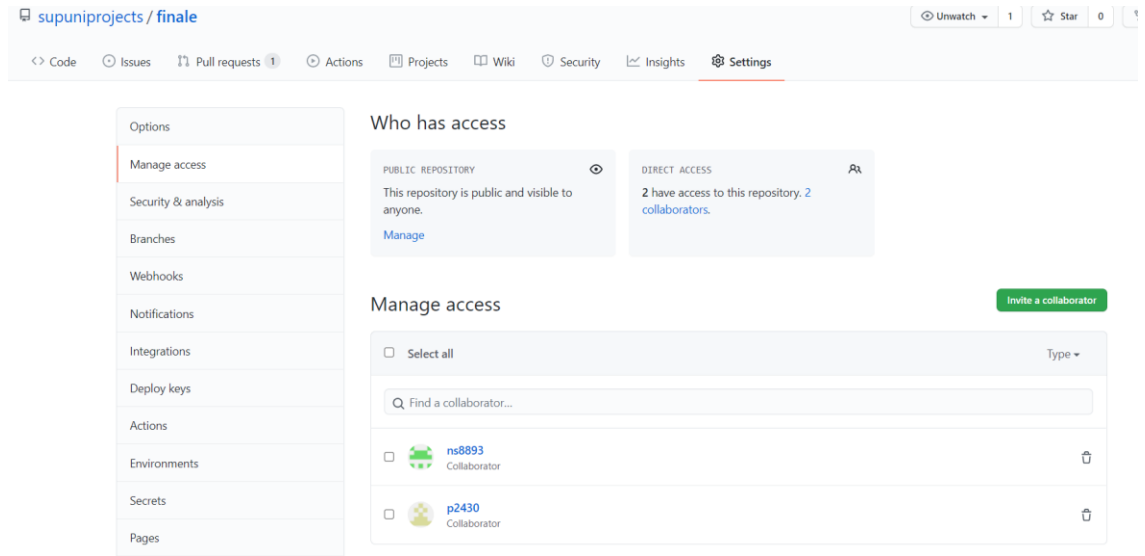
- Now under the created repo goto Settings and select Manage access from the left sidebar
- Now under Invite a collaborator, add your team members.



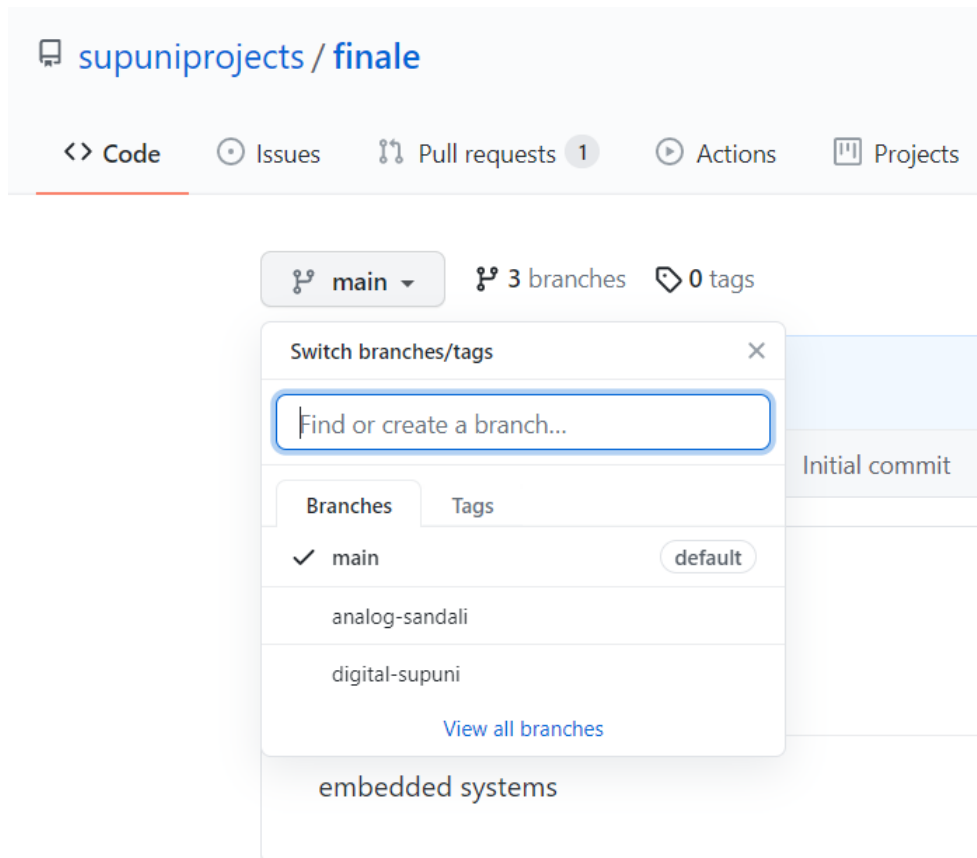
- Send the copied invitation link from the icon next to pending invite to your team members.



- Team members can now accept the invitation to collaborate for the project



- Step 3: Project setup
 - Please make sure to create a branch from the master. NEVR MAKE CHANGES TO THE MASTER.



- Distribute different possible modules among team members. Eg: 4:1 mux, 4-bit adder...etc.
- Create a branch with a title like “SubProjectName-‘yourfirstname’”, like that create different branch among team members
- Now create the folder structure for your chosen module. Module name is preferred to be short yet descriptive.

The screenshot shows a GitHub repository page for 'supuniprjects / finale'. At the top, it indicates the repository is 1 commit ahead of main. Below this, a commit history table shows two commits: 'Initial commit' for README.md and 'Create embedded systems' for embedded systems. The README.md file is displayed with the title 'finale' and the subtitle 'embedded systems'. The repository navigation bar at the bottom includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. On the right side, there are sections for 'About' (embedded systems, Readme), 'Releases' (No releases published), and 'Packages' (No packages published).

- Create some text files inside the folders.

The screenshot shows a Visual Studio Code editor window. The file explorer on the left shows the 'analogcode\codes\tronic.txt' file. The main editor area displays a diff view for this file, showing changes between two versions. The changes include adding a line with the text '//digital to analog' and removing a line with the text '//digital to analog'. The diff view uses color coding to highlight additions and deletions.

- Step 4:
 - Commit your changes and create pull requests. Make sure to give a short description of the change you have done in the commit message.

File

Edit

View

Repository

Branch

Help

Current repository

finale

Current branch

analog-sandali

#2

Fetch origin

Last fetched a minute ago

Changes 1

History

analogcode\codes\tronic.txt

1 changed file

analogcode\codes\tronic.txt

+

@@ -0,0 +1 @@

1 +//digital to analog

created

refer these codes before start

+

Commit to analog-sandali

Label issues and pull requests for new contributors

Dismiss

Now, GitHub will help potential first-time contributors discover issues labeled with good first issue

Filters

is:pr is:open

Labels 9

Milestones 0

New pull request

1 Open

0 Closed

Author

Label

Projects

Milestones

Reviews

Assignee

Sort

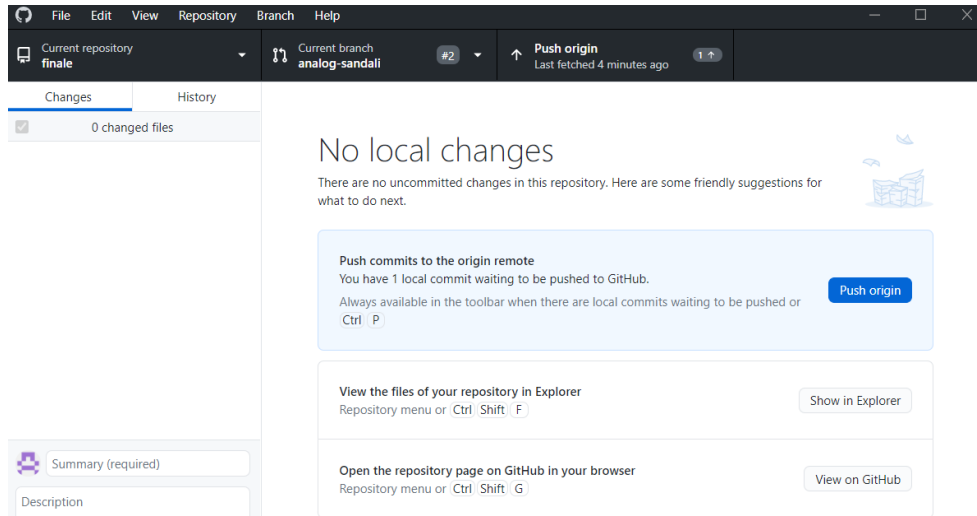
create 4:Imux

#1 opened 35 minutes ago by supuniprjects

ProTip!

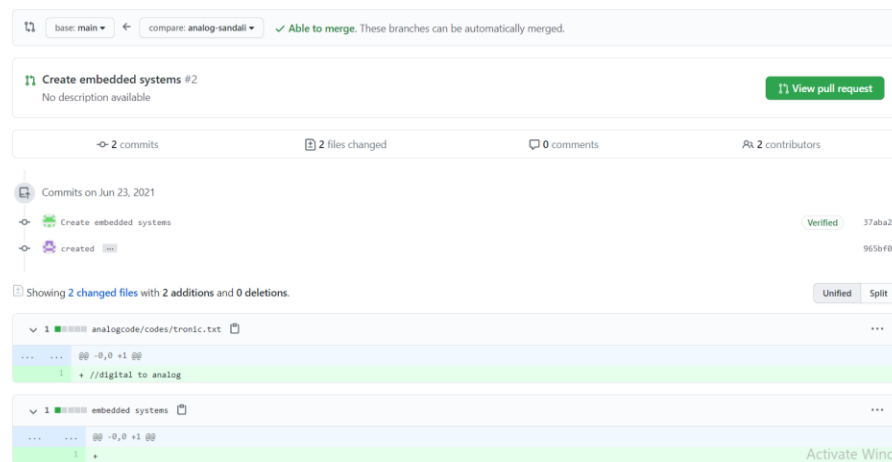
Find all pull requests that aren't related to any open issues with -linked:issue.

- Now the team leader can accept the pull requests if these changes are ok.
- Once accepted check the master branch and observe the differences.



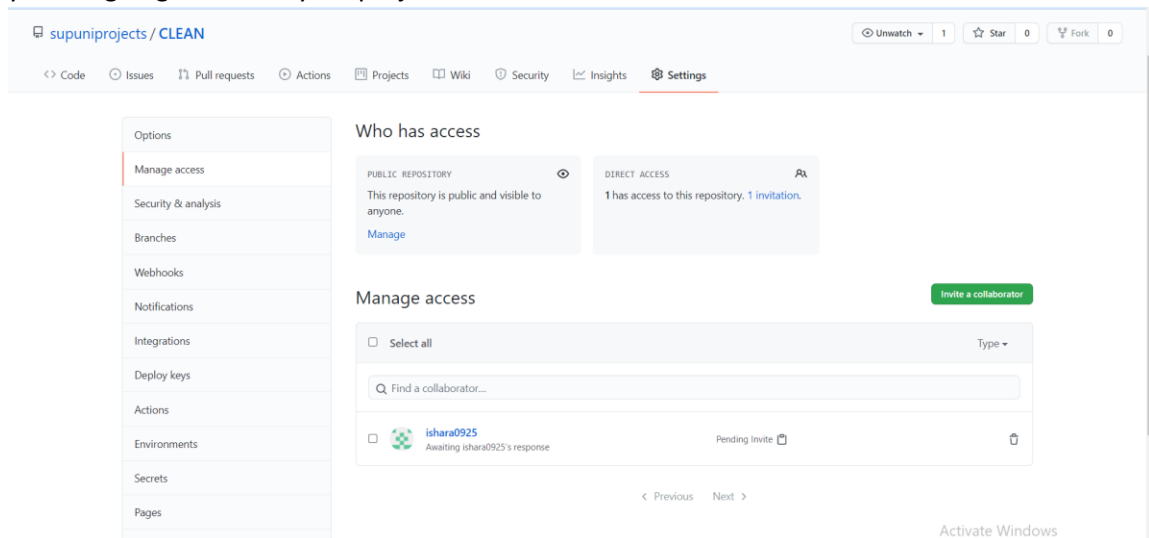
Comparing changes

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](#).

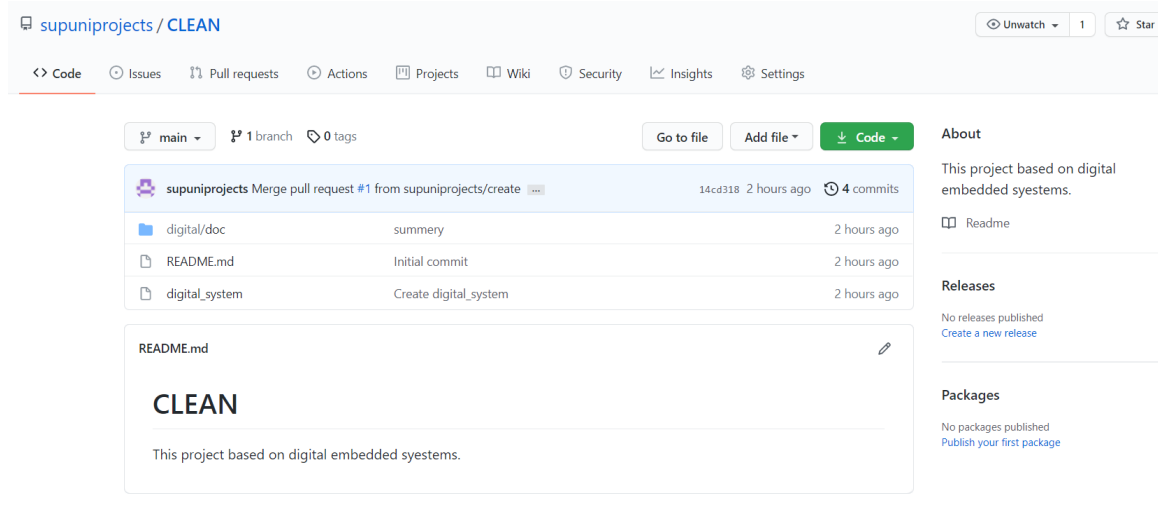


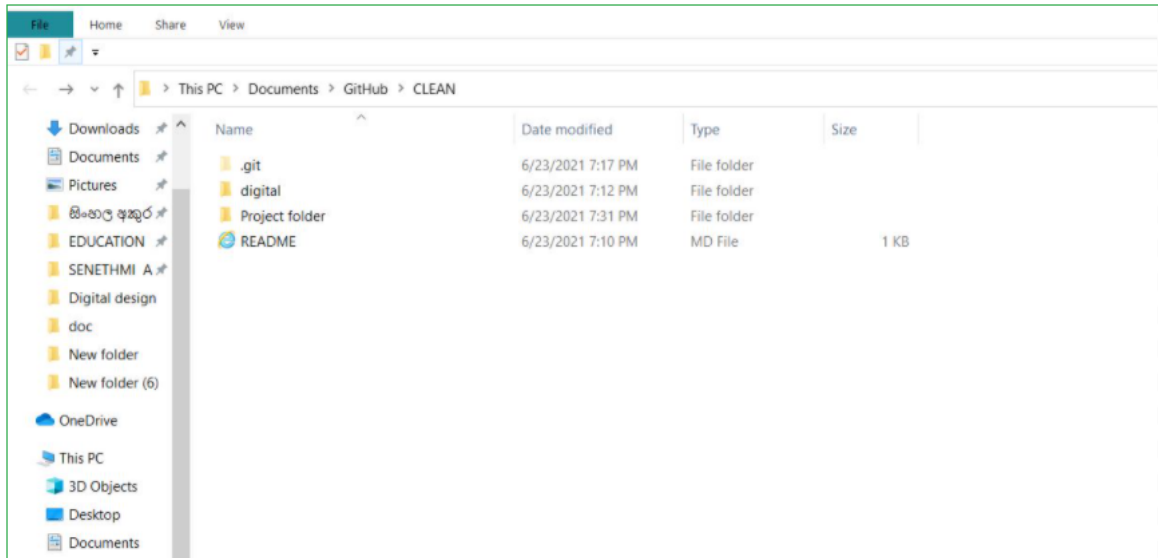
1.4 TASKS

1. Add “ishara0925” as a collaborator to your CLEAN project repository. This repository is the one you are going to use for your project.

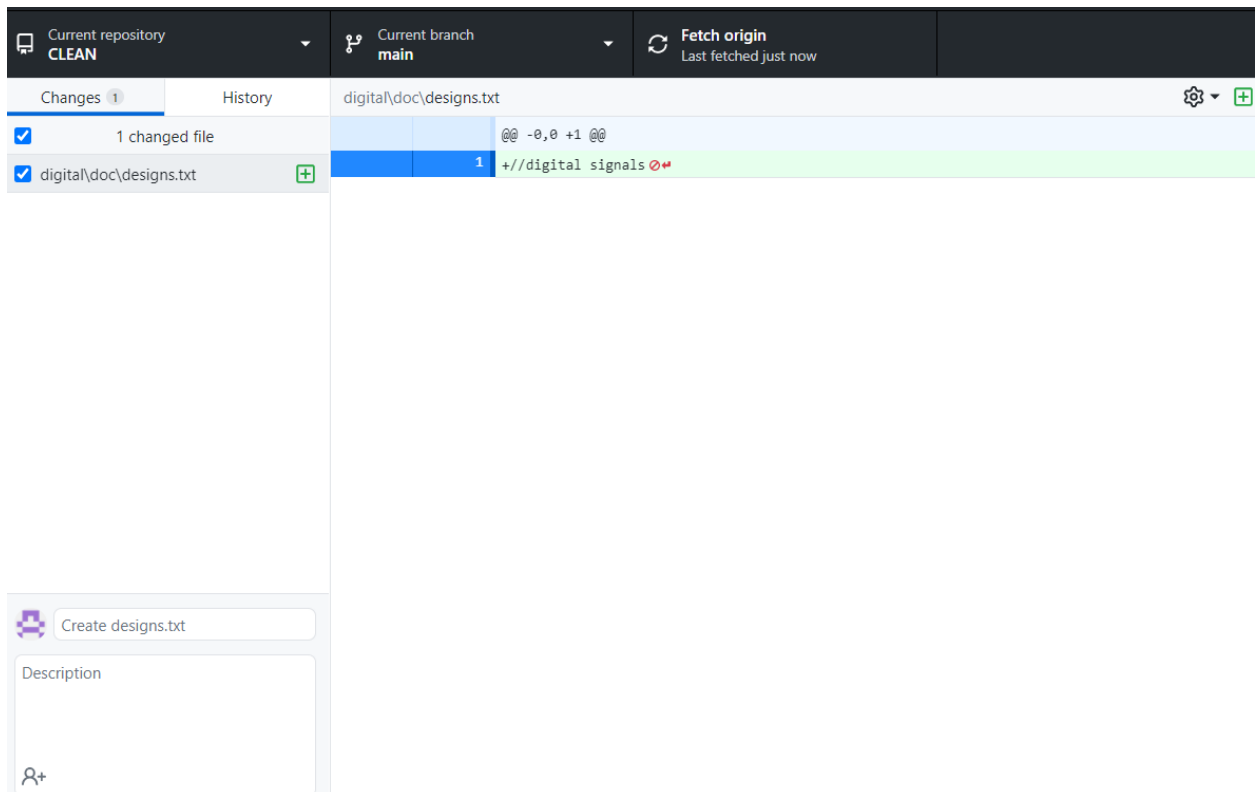


2. Add screen shots of the repository folder structure to your project presentation. Project presentation should be present inside the presentation folder in your project folder.





3. Add a short description of your project under the repository description.



File

Edit

View

Repository

Branch

Help

Current repository

CLEAN

Current branch

main

Changes 1

History

1 changed file

Project folder\prese...\Capture.JPG

summery

this project is base on embedded systems

Commit to main

File

Home

Share

View

This PC > Documents > GitH

Downloads

Documents

Pictures

සිංහල අකුර

EDUCATION

SENETHMI A

Digital design

doc

New folder

New folder (6)

OneDrive

This PC

3D Objects

Desktop

Documents

Name

.git

digital

Project folder

README

supuniprojects / CLEAN

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

create had recent pushes 8 minutes ago

Compare & pull request

main 2 branches 0 tags

Go to file

Add file

Code

supuniprojects summery

a891424 43 seconds ago 2 commits

digital/doc	summery	43 seconds ago
README.md	Initial commit	13 minutes ago

README.md



supuniprojects / CLEAN

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

main 1 branch 0 tags

Go to file

Add file

Code

supuniprojects summery

5b7861e 36 seconds ago 5 commits

Project folder/presentation	summery	36 seconds ago
digital/doc	summery	2 hours ago
README.md	Initial commit	2 hours ago
digital_system	Create digital_system	2 hours ago

README.md



CLEAN

This project based on digital embedded sytems.

GitHub Link

<https://github.com/supuniprojects/CLEAN>