Hands-on Lab: Getting Started with GitHub

Effort: 20 min

In this lab, you will get started with GitHub by creating a GitHub account and project and adding a file to it using its Web interface.

Objectives

After completing this lab, you will be able to:

0. Describe GitHub
1. Create a GitHub account
2. Add a Project / Repo
3. Edit / Create a file
4. Upload a file & Commit

GitHub Overview

First, let us introduce to GitHub. GitHub in simple words is a collection of folders and files. It is a Git repository hosting service, but it adds many of its own features. While Git is a command-line tool and a server needs to be hosted and maintained via command line as well, GitHub provides this Git server for you and a Web-based graphical interface. It also provides access control and several collaboration features, such as wikis and basic task management tools for every project. GitHub provides cloud storage for source code, supports all popular programming languages, and streamlines the iteration process. GitHub includes a free plan for individual developers and for hosting open source projects.

Exercise 1: Creating a GitHub Account

Please follow the steps given below to create an account in GitHub:

Step 1: Create an account: https://github.com/join

NOTE: If you already have a GitHub account, you can skip this step and simply login to your account.

Step 2: Provide the necessary details to create an account as shown below:

Create your account

Username *

Email address *

Password *

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter.
Learn more.

Email preferences

☑ Send me occasional product updates, announcements, and offers.

Verify your account

Please solve this puzzle so we
know you are a real person

Verify

🔊

Create account

By creating an account, you agree to the Terms of Service. For more information about GitHub's
privacy practices, see the GitHub Privacy Statement. We'll occasionally send you account-related
emails.

and click `Create account`.

Step 3: Click `Verify` to verify the account and click `Done`

Verify your account

Please solve this puzzle so we
know you are a real person

Verify

🔊

Step 4: After verification, click `Join a Free Plan`

Email preferences

☑ Send me occasional product updates, announcements, and offers.

[Join a free plan]

Step 5: Select the details as shown below and click `Complete Setup`

What do you plan to use GitHub for?
(Select up to 3)

Learn to code	Learn Git and GitHub	Host a project (repository)
Create a website with GitHub Pages	Collaborating with my team	Find and contribute to open source
School work and student projects	Use the GitHub API	Other

I am interested in:

`languages, frameworks, industries`

We'll connect you with communities and projects that fit your interests.
For example: `zeplin` `elm` `apm`

[Complete setup]

Step 6: Go to your email, find the verification email from GitHub, and click on the link/button in that email to verify your email.

NOTE: If you do not receive verification email, click `Resend verification email`.

Please verify your email address

Before you can contribute on GitHub, we need you to verify your email address.

An email containing verification instructions was sent to **Your email address**

[Resend verification email]   [Change your email settings]
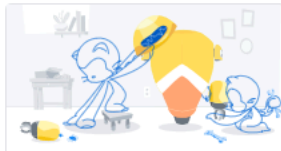
Email is verified

Your email was verified.   ✕

What do you want to do first?

Every developer needs to configure their environment, so let's get your GitHub experience optimized for you.

Start a new project

Start a new repository or bring over an existing repository to keep contributing to it.

Create a repository

Collaborate with your team

Improve the way your team works together and get access to more features with an organization.
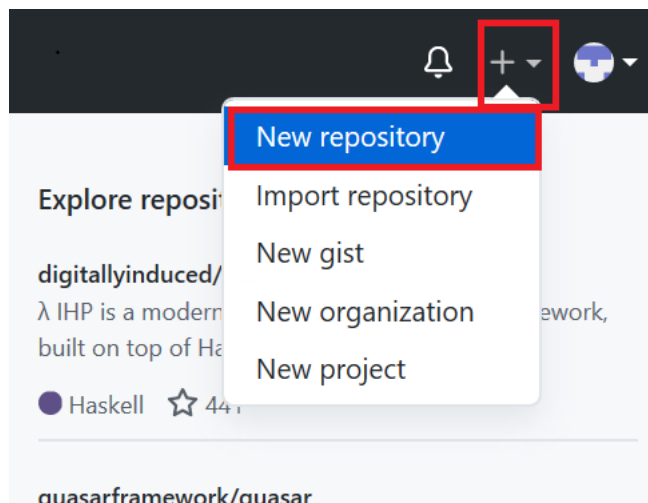
Create an organization

Learn how to use GitHub

Get started with an "Introduction to GitHub" course in our Learning Lab.

Start Learning

Skip this for now >

Exercise 2: Adding a Project / Repo

Step 1: Click on the + symbol and click `New repository`.

New repository

Import repository

New gist

New organization

New project

Explore reposi

digitallyinduced/

λ IHP is a modern   ework,
built on top of Ha

● Haskell   ☆ 44

quasarframework/quasar

Step 2: Provide a repository a name and initialize with the empty `README.md` file.

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?
Import a repository.

Owner *   **Repository name** *

[🐙 Malika-s ▾] / [testrepo   ✓]

Great repository names are short and memorable. Need inspiration? How about **urban-octo-waffle**?

Description (optional)

[   ]

◉ 📖 **Public**
   Anyone on the internet can see this repository. You choose who can commit.

○ 🔒 **Private**
   You choose who can see and commit to this repository.

Skip this step if you're importing an existing repository.

☑ **Initialize this repository with a README**
   This will let you immediately clone the repository to your computer.

[Add .gitignore: None ▾]   [Add a license: None ▾]   ⓘ

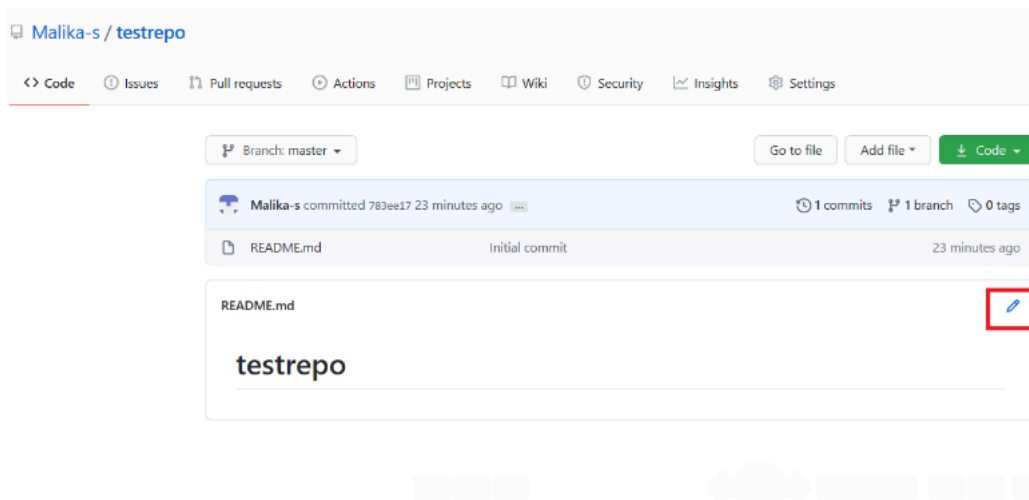[**Create repository**]

and click `Create repository`.

Now, you will be redirected to the repository you have created.

Let's start editing the repository.

Exercise 3: Create / edit a file

Exercise 3a: Edit a file

Step 1: Once the repository is created, the root folder of your repository is listed by default and it has just one file `ReadMe.md`. Click on the pencil icon to edit the file.

🖥 Malika-s / **testrepo**

<> Code   ⓘ Issues   ⑂ Pull requests   ⊙ Actions   🗏 Projects   ▣ Wiki   ⓘ Security   ⬘ Insights   ⚙ Settings

⑂ Branch: master ▾   Go to file   Add file ▾   ⬇ Code ▾

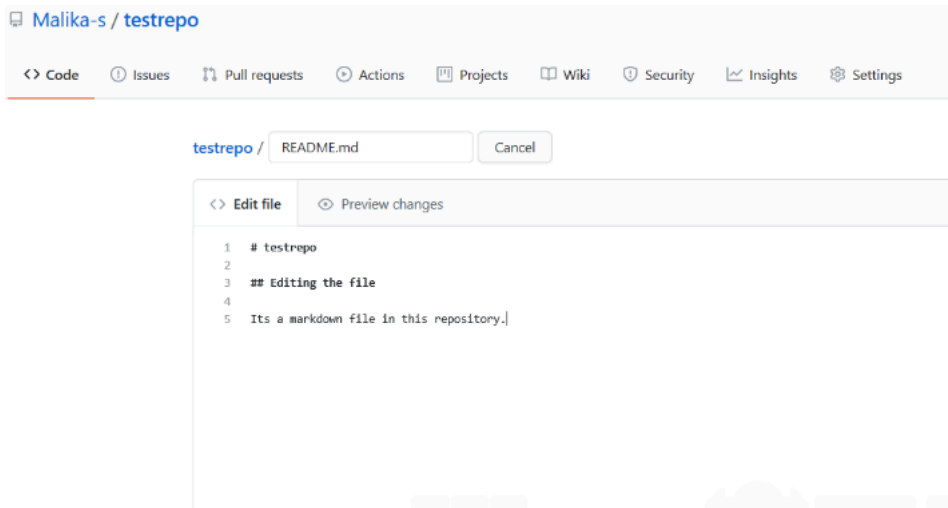🐙 **Malika-s** committed 783ee17 23 minutes ago ⋯   ⏱ 1 commits   ⑂ 1 branch   ⬡ 0 tags
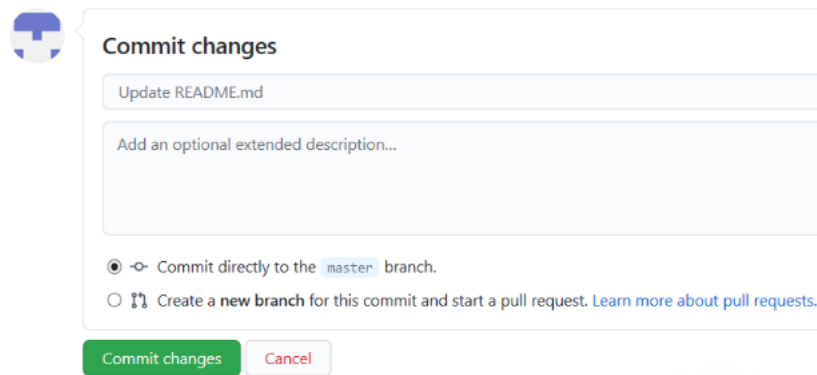
📄 README.md   Initial commit   23 minutes ago
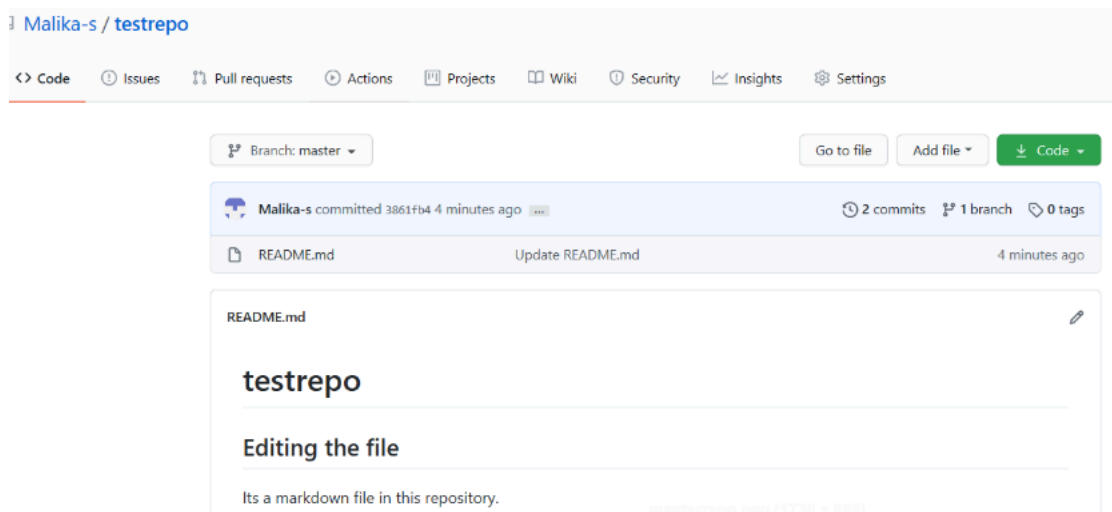
README.md   ✏

testrepo

Step 2: Add text to file.

🖥 Malika-s / **testrepo**

<> Code   ⓘ Issues   ⇂↑ Pull requests   ⊙ Actions   ⊡ Projects   ⬚ Wiki   ⓘ Security   ⤬ Insights   ⚙ Settings

---

testrepo /   README.md   Cancel

<> Edit file   ⊙ Preview changes

```
1    # testrepo
2
3    ## Editing the file
4
5    Its a markdown file in this repository.|
```

Step 3: Scroll down the page after adding the text and click `Commit Changes`.

Commit changes

Update README.md

Add an optional extended description...

⦿ ⟳ Commit directly to the `master` branch.

○ ⇂↑ Create a **new branch** for this commit and start a pull request. Learn more about pull requests.

Commit changes   Cancel

Now, check your file is edited with the new text.

Exercise 3b: Create a new file

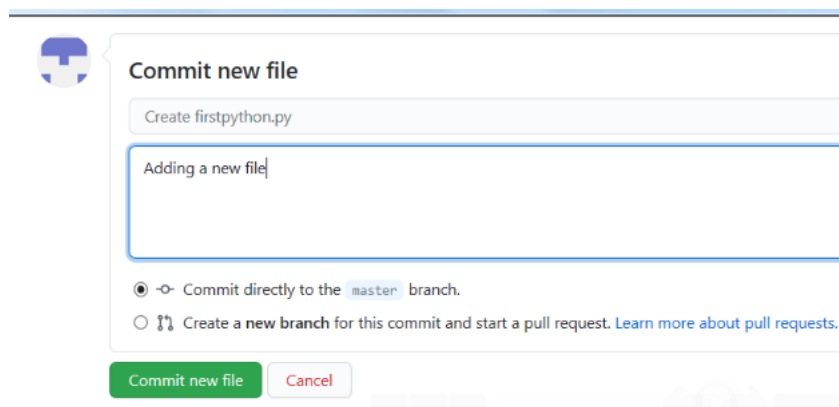Step 1: Click on the repository name to go back to the master branch like in this testrepo.

⌐ Malika-s / **testrepo**

<> Code   ⓘ Issues   ⇂↑ Pull requests   ⊙ Actions   ⊡ Projects   ⬚ Wiki   ⓘ Security   ⤬ Insights   ⚙ Settings

---

⇡ Branch: master ▾   Go to file   Add file ▾   ⬇ Code ▾

🔵 Malika-s committed 3861fb4 4 minutes ago ...   ⟲ 2 commits   ⇡ 1 branch   ⬚ 0 tags

📄 README.md   Update README.md   4 minutes ago

README.md   ✎

testrepo

Editing the file

Its a markdown file in this repository.

Step 2: Click `Add file` and select `Create New file` to create a file in the repository.
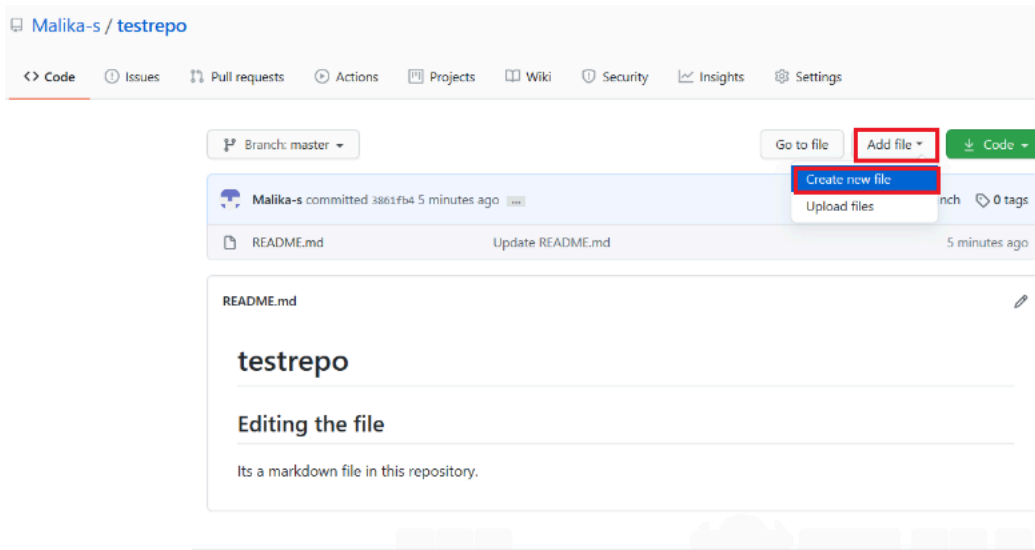
Step 3: Provide the file name and the extension of the file. For example, firstpython.py and add the lines.
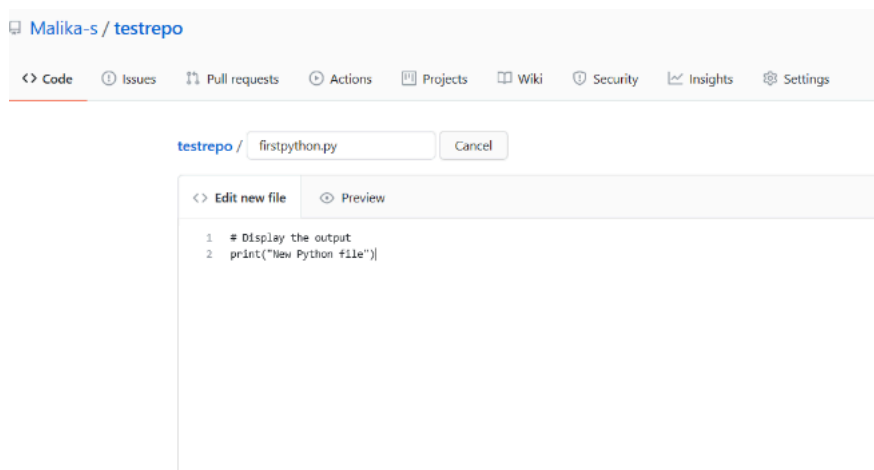
Step 4: Scroll down the page after adding the text. `Add description` of the file (optional) and click `Commit` new file.

Step 5: Your file is now added to your repository and the repository listing shows when the file was added/changed.

Exercise 4: Upload a file & Commit

Step 1: Click `Add file` and select `Upload files` to upload a file (Upload any .txt,.ipynb, .png file) in the repository from the local computer.

Step 2: Click on choose your files and choose any files from your computer.

Step 3: Once the file finishes uploading, click on Commit Changes

Step 4: Now, your file is uploaded in the repository.

Summary

In this document, you have learned how to create a new repository, adding a new file, editing a file, and uploading a file in a repository and commit the changes.

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