

Practice Project: Part 1 - GitHub UI

Estimated Time: 30 minutes

Overview

In this lab you will start your journey with the GitHub implementation for your organisation by creating a repository in your GitHub account and then initialising the repository with a README.md file and a License. Following this, you'll update the README file to include a Code of Conduct and Contribution Guidelines markdown files. After making these changes, you'll commit the files to your repository.

Next, you'll create a new branch and add code for Shipping logistics calculation. To wrap up, you'll merge this branch into the main branch using a Pull Request.

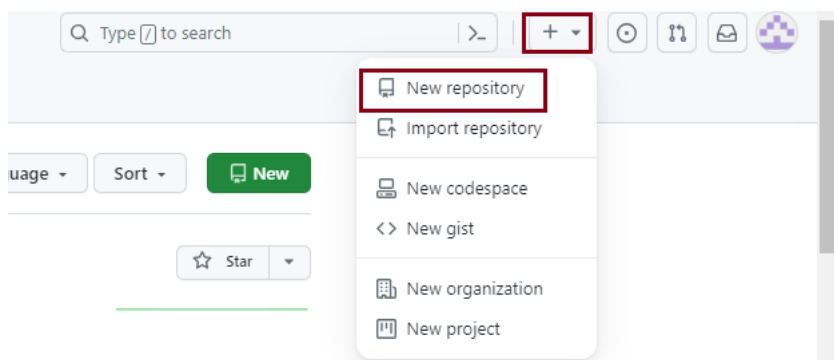
Objectives

After completing this lab, you will have demonstrated that you can:

1. Create a repository with a README.md file and a license.
2. Update the existing files.
3. Commit the files to your repository.
4. Create a new branch and add files to it.
5. Merge this branch to the main branch using a Pull Request.

Task 1: Create a repository with a README file and a license.

1. At the top right of the GitHub home page, click on the + icon and select `New repository`.



2. Create a new GitHub repository called `LogisticsShippingRates` and make sure that it is **Public**.
3. Select the **Add a README file** field. Click on the **Choose a license** field and select `Apache License 2.0` from the drop down. Finally, click on **Create repository**.

Owner * / Repository name *
LogisticsShippingRates
✔ LogisticsShippingRates is available.

Great repository names are short and memorable. Need inspiration? How about [didactic-meme](#) ?

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.

Initialize this repository with:

☒ Add a README file
This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore
.gitignore template: None
Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license
License: Apache License 2.0
A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

This will set `master` as the default branch. Change the default name in your [settings](#).

① You are creating a public repository in your personal account.

Create repository

4. After successfully creating a new repo, you will see the following screenshot.

The screenshot shows the GitHub interface for a newly created repository named "LogisticsShippingRates". The repository is public and has a default branch named "master". It contains two files: "LICENSE" and "README.md", both marked as "Initial commit". The README file is open, showing the repository name "LogisticsShippingRates" with a link icon.

LogisticsShippingRates Public

master 1 branch 0 tags

Go to file Add file

initial commit 67d4c5e 5 minutes ago

| | |
|-----------|----------------|
| LICENSE | Initial commit |
| README.md | Initial commit |

README.md

LogisticsShippingRates

Your repository is created and includes the README and LICENSE files. Now, you are ready to update your repository files to include useful information for your community.

Task 2: Update the README file.

1. Click on `README.md` file to open it and click the pencil icon to edit it.

LogisticsShippingRates / README.md

commit

Blame1 lines (1 loc) · 24 BytesCode 55% faster with GitHub Copilot

LogisticsShippingRates

2. Add the following information to the file:

Please consider the below factors while contributing

Code Style:

Maintain a consistent code style for readability.

Documentation:

Ensure well-documented code for effective collaboration.

Testing:

Thoroughly test your changes before submitting a pull request.

Issue Tracker:

Check the Issue Tracker for tasks.

Code Review:

All contributions undergo a code review process.

Licensing:

Contributions are licensed.

3. Now click on Commit changes

<> CodeIssuesPull requestsZenhubActionsProjectsWikiSecurityInsightsSettings

LogisticsShippingRates / README.md in master

EditPreviewCode 55% faster with GitHub Copilot

1Please consider the below factors while contributing

2

3Code Style:

4Maintain a consistent code style for readability.

5

6Documentation:

7Ensure well-documented code for effective collaboration.

8

9Testing:

10Thoroughly test your changes before submitting a pull request.

11

12Issue Tracker:

13Check the Issue Tracker for tasks.

14

15Code Review:

16All contributions undergo a code review process.

17

18Licensing:

19Contributions are licensed.

4. Ensure that the radio button to **commit directly to the main/master branch** is selected. Add a commit message and click on Commit Changes

about:blank

3/15

Commit changes

Commit message

Update README.md

Extended description

Add an optional extended description..

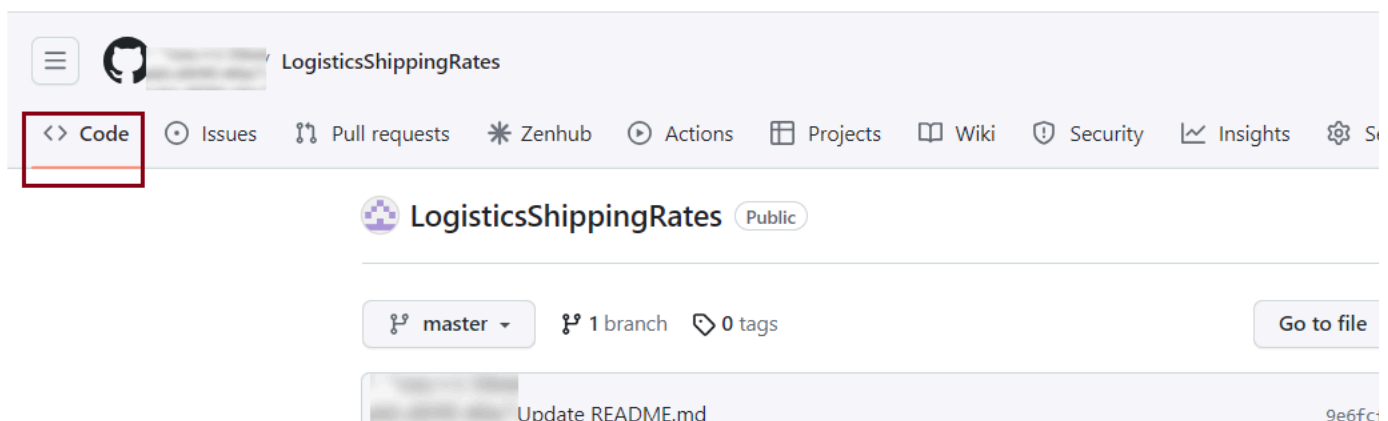
☒ Commit directly to the master branch

☐ Create a new branch for this commit and start a pull request
[Learn more about pull requests](#)

Cancel

Commit changes

NOTE: After completing the steps in each of the tasks, if you are unable to see the options depicted in the provided screenshots, click on the `Code` option as highlighted in below screenshot:

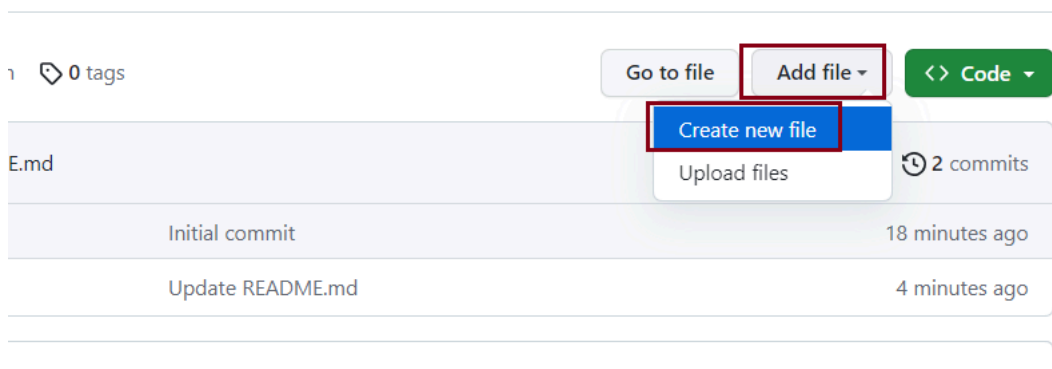


Task 3: Add a code of conduct.

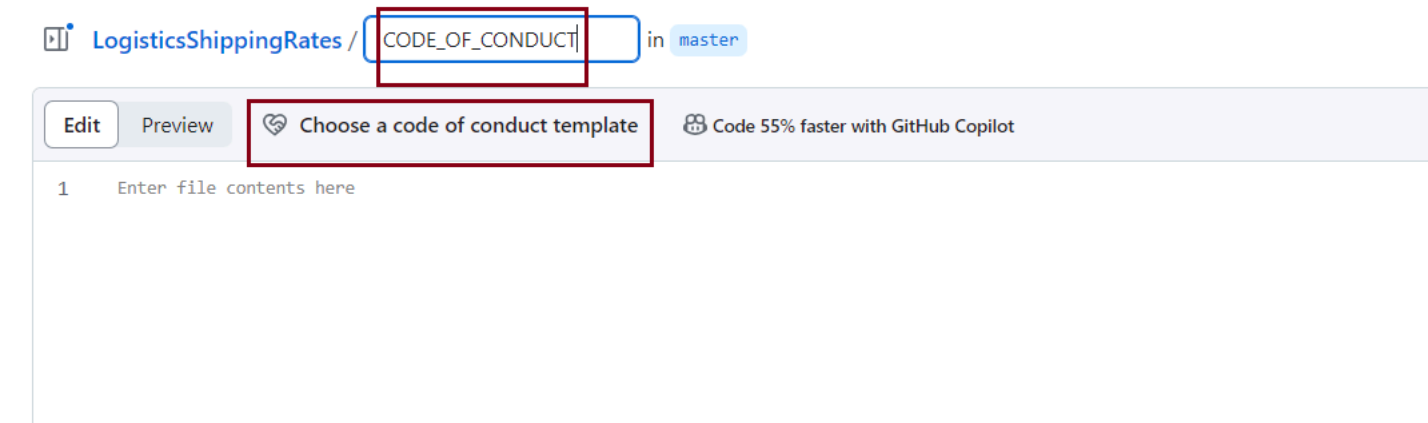
A code of conduct helps set ground rules for the behavior of your project's participants. It defines standards for how to engage in a community.

GitHub provides templates for common codes of conduct to help you quickly add one to your project.

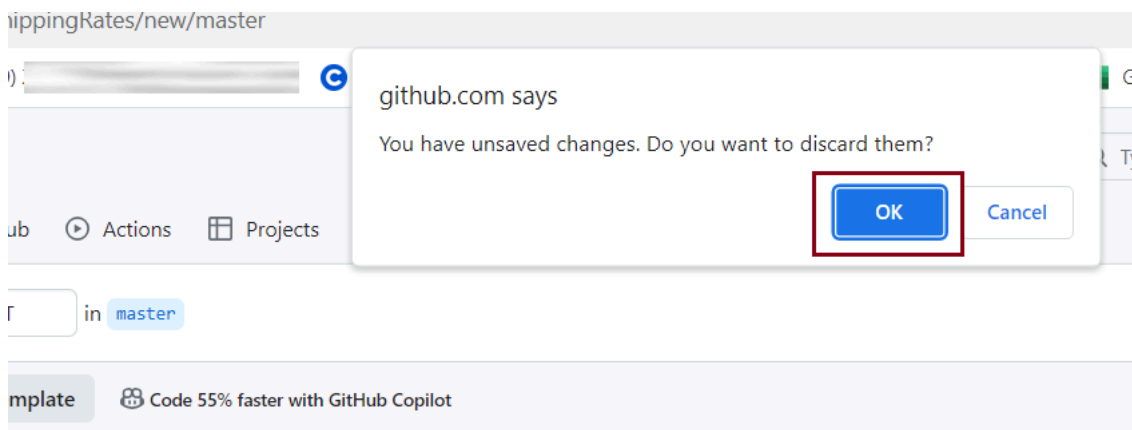
1. To create a new file click on **Add file** and then `Create New File`.



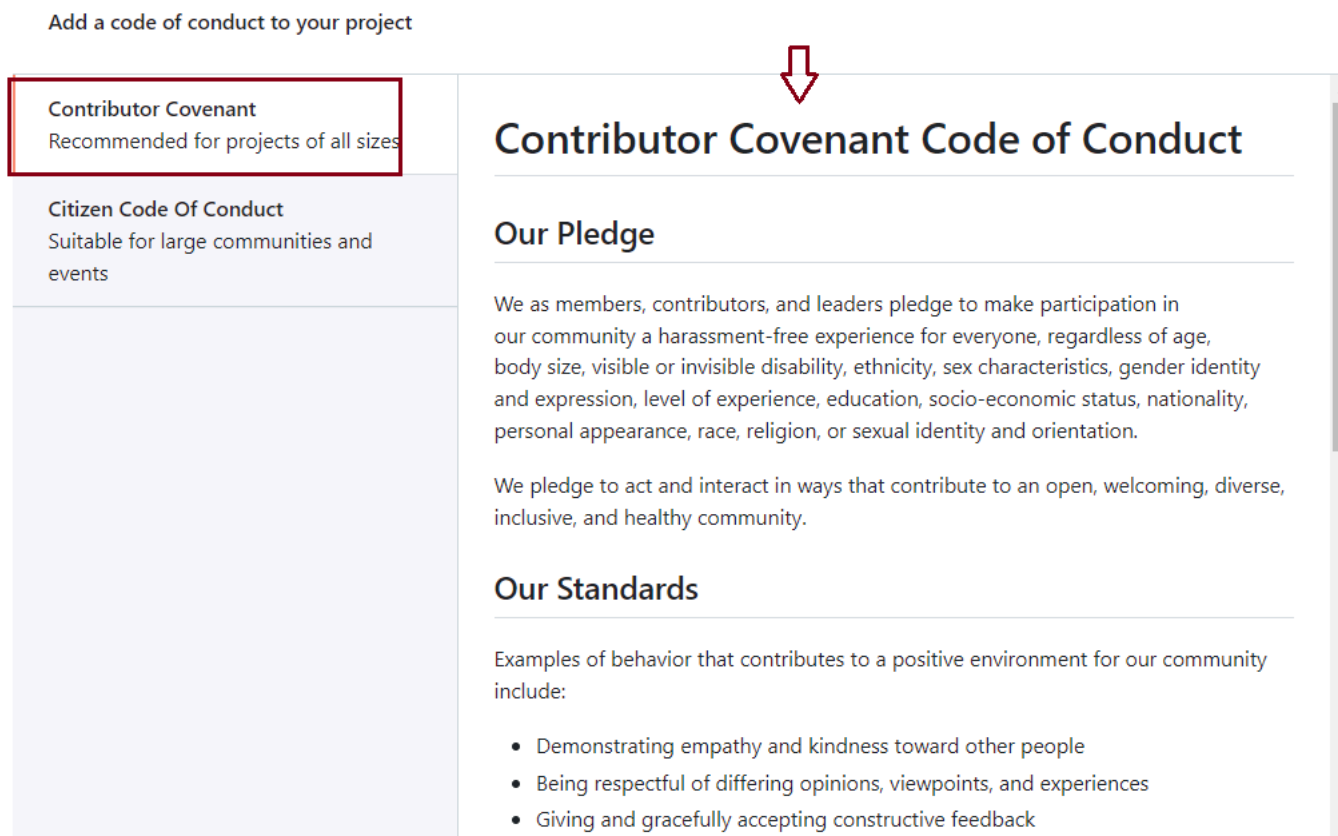
2. Add a new file named `CODE_OF_CONDUCT.md` to the root folder of the repository. The **Choose a code of conduct template** button is displayed.



3. Click the **Choose a code of conduct template** button. You will see a popup mentioning you may lose unsaved changes. Click on **OK**.



4. Click on **Contributor Covenant** to load this template. Then click **Review** and **submit** to add the file to your project.



5. Scroll down the page to read the content. Click on **Commit changes**.

Your code of conduct template is ready. Please review it below and either commit it to the master branch or to a new branch.

LogisticsShippingRates / CODE_OF_CONDUCT.md in master

Edit

Preview



Choose a code of conduct template



Code 55% faster with GitHub Copilot

```
1  # Contributor Covenant Code of Conduct
2
3  ## Our Pledge
4
5  We as members, contributors, and leaders pledge to make participation in our
6  community a harassment-free experience for everyone, regardless of age, body
7  size, visible or invisible disability, ethnicity, sex characteristics, gender
8  identity and expression, level of experience, education, socio-economic status,
9  nationality, personal appearance, race, religion, or sexual identity
10  and orientation.
11
12  We pledge to act and interact in ways that contribute to an open, welcoming,
13  diverse, inclusive, and healthy community.
14
15  ## Our Standards
16
```

6. Ensure that the radio button to **Commit directly to the main/master branch** is selected and click **Commit changes**.

NOTE: In the past the default branch in your GitHub repo used the name `master`. Effective Oct 1, 2020, all new GitHub repositories use the more inclusive term `main` as the name of the default branch instead of `master`.

t to the master branch or to a new branch.

Commit changes

Commit message

Create CODE_OF_CONDUCT.md

Extended description

Add an optional extended description..

☒ Commit directly to the master branch

☐ Create a new branch for this commit and start a pull request

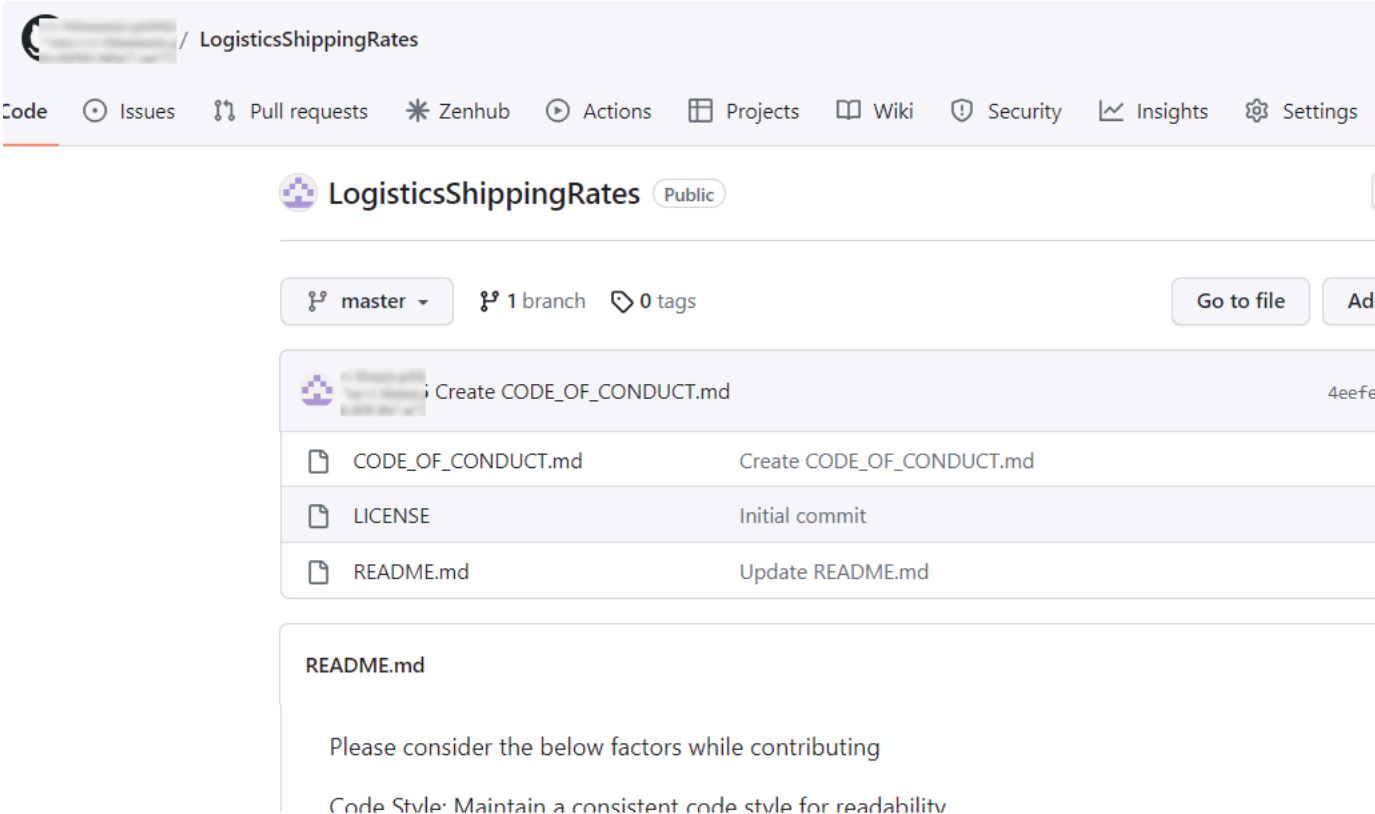
[Learn more about pull requests](#)

Cancel

Commit changes

If the page is zoomed in, you may see only the **Commit changes** button and not the radio button. Zoom out or scroll down to see the radio button.

7. Your project now contains a code of conduct.



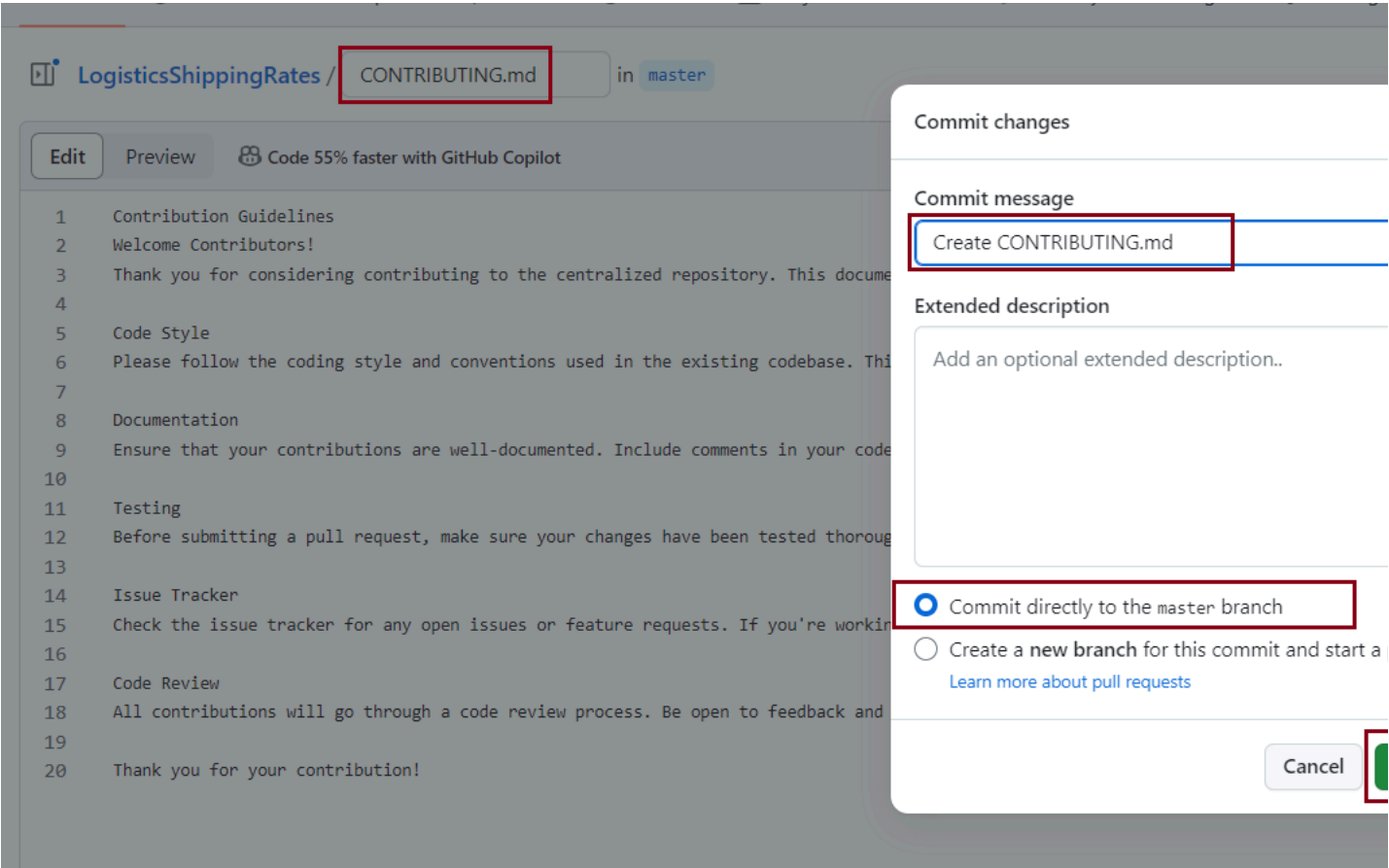
Task 4: Establish contribution guidelines.

Contribution guidelines provide clear instructions for individuals looking to contribute to the project. To implement these guidelines, please follow these steps:

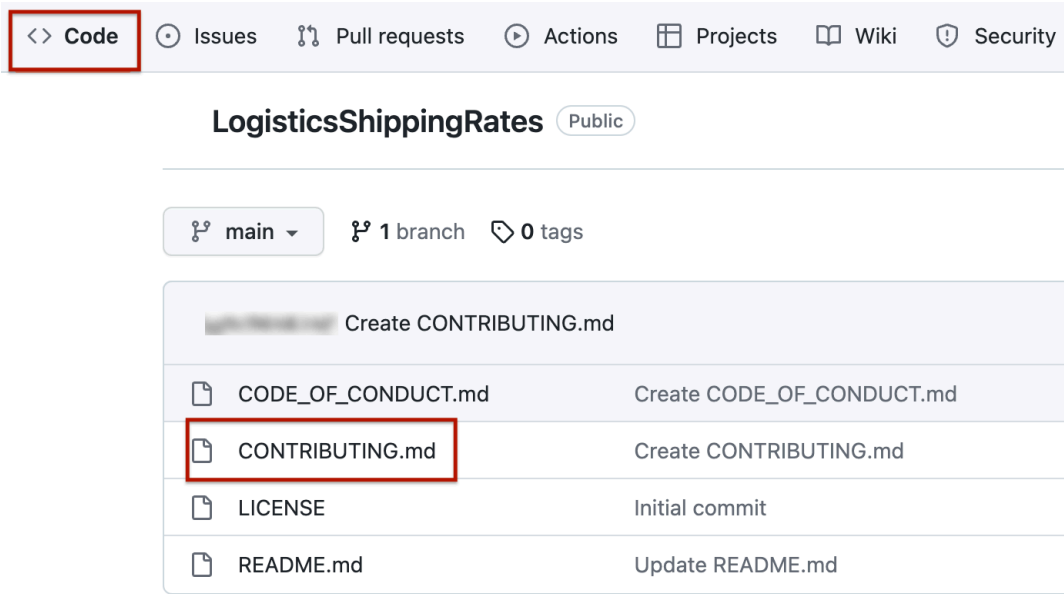
- 1. Create a new file in the repository's root directory and name it CONTRIBUTING.md.
- 2. Inside the file, include the following information:

```
Contribution guidelines
Welcome Contributors!
Thank you for considering contributing to the centralized repository. This document outlines the guidelines for contributing to the development of
Code style
Please follow the coding style and conventions used in the existing codebase. This helps maintain consistency across the project.
Documentation
Ensure that your contributions are well-documented. Include comments in your code where necessary and provide a clear and concise description of yo
Testing
Before submitting a pull request, make sure your changes have been tested thoroughly. Include relevant test cases and ensure that existing tests pa
Issue tracker
Check the issue tracker for any open issues or feature requests. If you're working on something, please comment on the issue to let others know.
Code review
All contributions will go through a code review process. Be open to feedback and be willing to make changes if necessary. Code reviews help maintai
Thank you for your contribution!
```

- 3. Commit this file to your repository.



4. Click on Code to go to the repository home page.



Your project now contains Contribution Guidelines as well.

Task 5: Create a new branch.


1. Click on branch in your repository.

[es](#) [Pull requests](#) [Zenhub](#) [Actions](#) [Projects](#) [Wiki](#) **LogisticsShippingRates** Public master ▾  **1 branch**  0 tags


2. Now, click on **New Branch** and enter the branch name as `Shipping_Calculation`, then click **Create New Branch**

Create a branch ×

New branch name

Shipping_Calculation 

Source

 main ▾

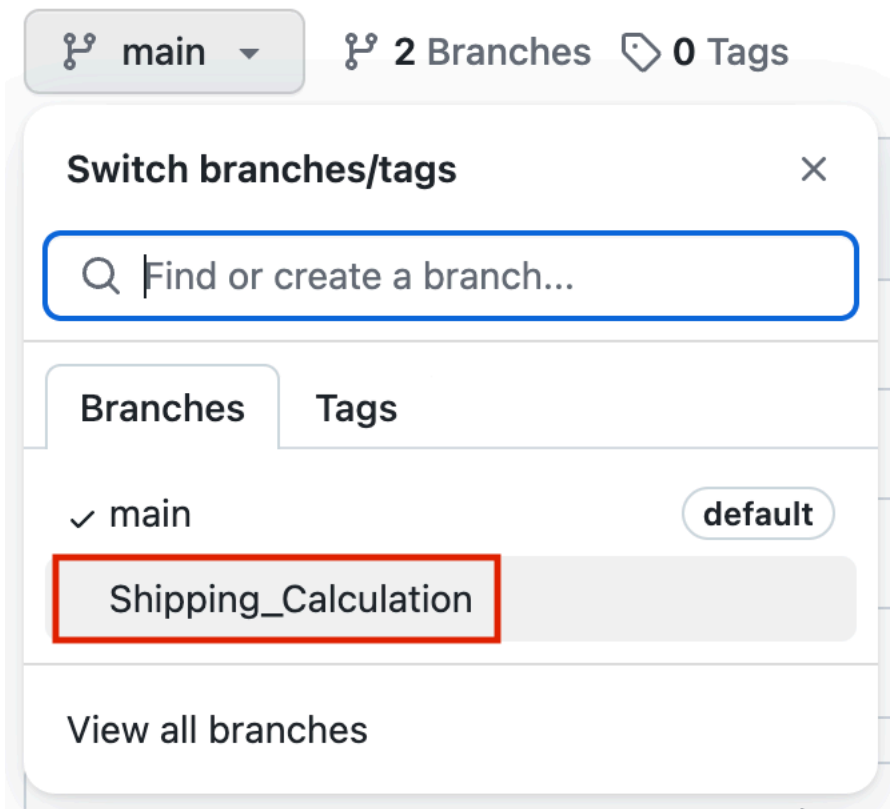
Cancel

Create new branch

This will be used for adding your Shipping Calculation code.

Task 6: Add the Shipping Calculation code in this branch.

1. Change to the `Shipping_Calculation` branch by selecting it from the dropdown.

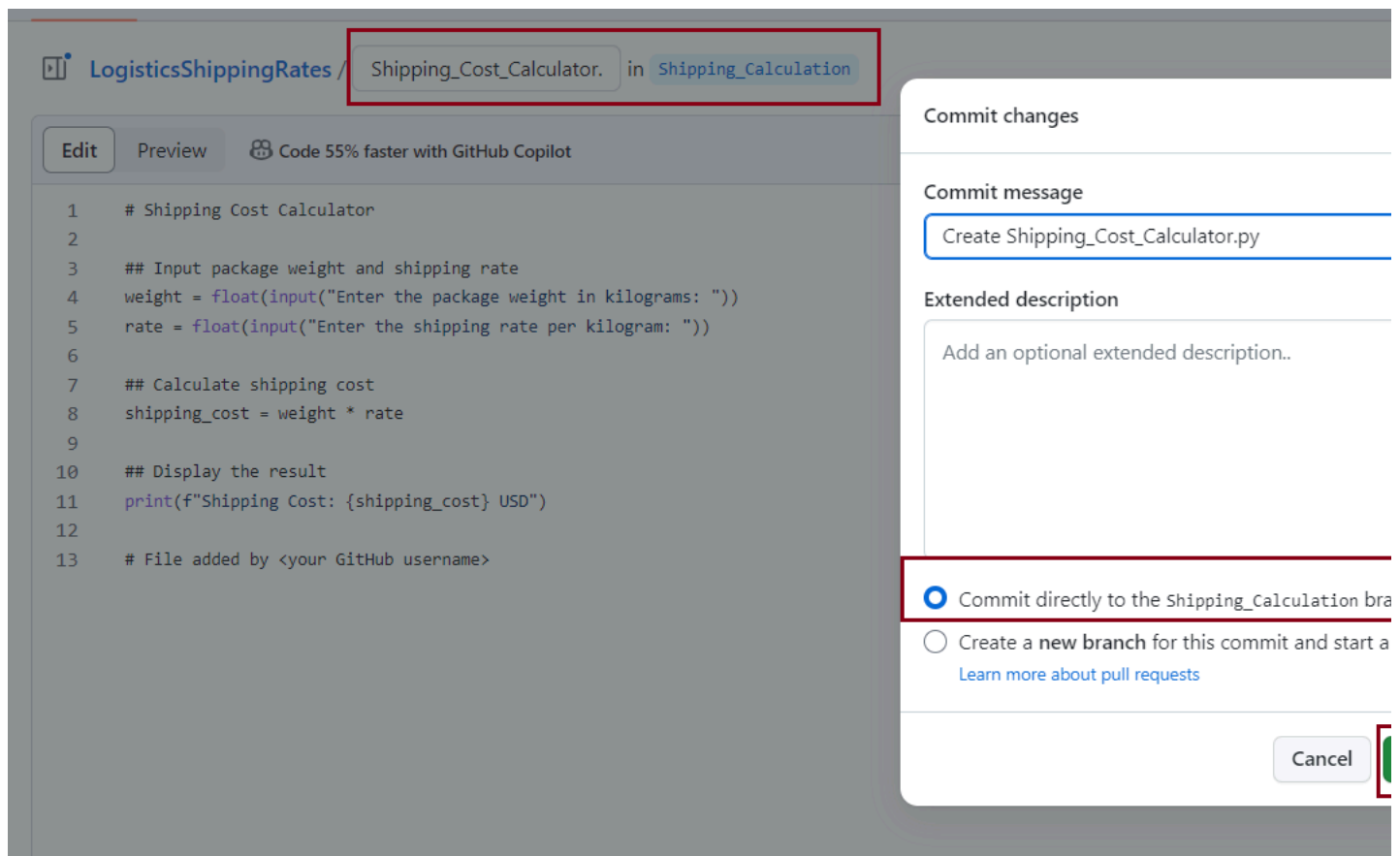


2. Create a new file named `Shipping_Cost_Calculator.py`.

3. Add the following code in the new file:

```
# Shipping Cost Calculator
## Input package weight and shipping rate
weight = float(input("Enter the package weight in kilograms: "))
rate = float(input("Enter the shipping rate per kilogram: "))
## Calculate shipping cost
shipping_cost = weight * rate
## Display the result
print(f"Shipping Cost: {shipping_cost} USD")
```

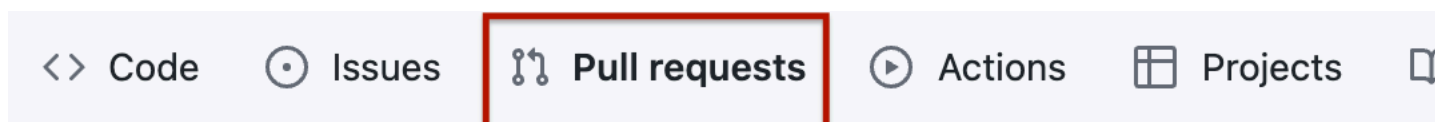
4. Ensure that the radio button to **Commit directly to the Shipping_Calculation branch** is selected and click `Commit changes`.



The Shipping_Calculation branch now contains the Shipping_Cost_Calculator.py file.

Task 7: Create a pull request to the main branch.


1. Go to the Pull request tab and click on Compare & pull request.



Label issues and pull requests for new contributors

Now, GitHub will help potential first-time contributors [discover](#)


good first issue

 Shipping_Calculation had recent pushes 1 minute ago

2. Add an appropriate commit message and click on Create pull request.

Open a pull request

Create a new pull request by comparing changes across two branches. If you ne



base: main ▾

← ...

compare: Shipping_Calculation ▾

✓ Able to merge.



Add a title

Merge Shipping_Cost_Calculator.py to the main branch


Add a description


Write

Preview

H B I

Add your description here...


 Markdown is supported


 Paste, drop, or click to add files

Task 8: Merge the branch to the main branch.

1. Click on Merge pull request.


Add more commits by pushing to the Shipping_Calculation branch of LogisticsShippingRates.




**Require approval from specific reviewers before merging**


Add rule

×

[Branch protection rules](#) ensure specific people approve pull requests before they're merged.

**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

▼

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

2. Click on Confirm merge.
3. The successfully merged changes will be shown in the Github UI as below:



Merge pull request #1 from Shipping_Calculation

Merging Shipping_Cost_Calculator.py to the master branch

This commit will be authored by 85282 @users.noreply.github.com

Confirm merge


Cancel


4. You will see the below message once the branch is merged.


Merge Shipping_Cost_Calculator.py to


 Mergedlauvshree merged 1 commit into **main** from Shipping_Calculati Conversation 0 Commits 1 Checks 0 Files**lauvshree** commented now*No description provided.*  Create Shipping_Cost_Calculator.py  **lauvshree** merged commit **de4a353** into **main** now


5. Check to see that your project now contains the `Shipping_Cost_Calculator.py` file as well.






 main ▾

 2 Branches

 0 Tags

 Go to

 **lauvshree** Merge pull request [#1](#) from lauvshree/Shipping_Calculation

| | |
|---|------------------------------------|
|  CODE_OF_CONDUCT.md | Create CODE_OF_CONDUCT.md |
|  CONTRIBUTING.md | Create CONTRIBUTING.md |
|  LICENSE | Initial commit |
|  README.md | Update README.md |
|  Shipping_Cost_Calculator.py | Create Shipping_Cost_Calculator.py |

Congratulations

In this lab you have created a repository in your GitHub account with a README.md file and a License. You have then edited the README file and added Code of Conduct, and Contribution Guidelines. Further, you have committed these files to your repository. Finally, you have added the Shipping logistics calculator file to a new branch, and merged it to the main branch using a Pull Request.

Author(s)

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Skills Network