

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.

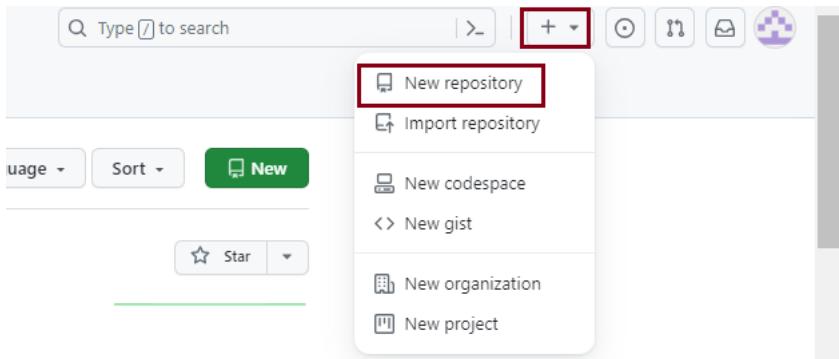
Objectives

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 is available.

Great repository names are short and memorable. How about [potential-octo-potato?](#)

Description

0 / 350 characters

Configuration

Choose visibility *  Public

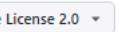
Start with a template  No template

Add README  On 

READMEs can be used as longer descriptions. [About READMEs](#)

Add .gitignore  No .gitignore

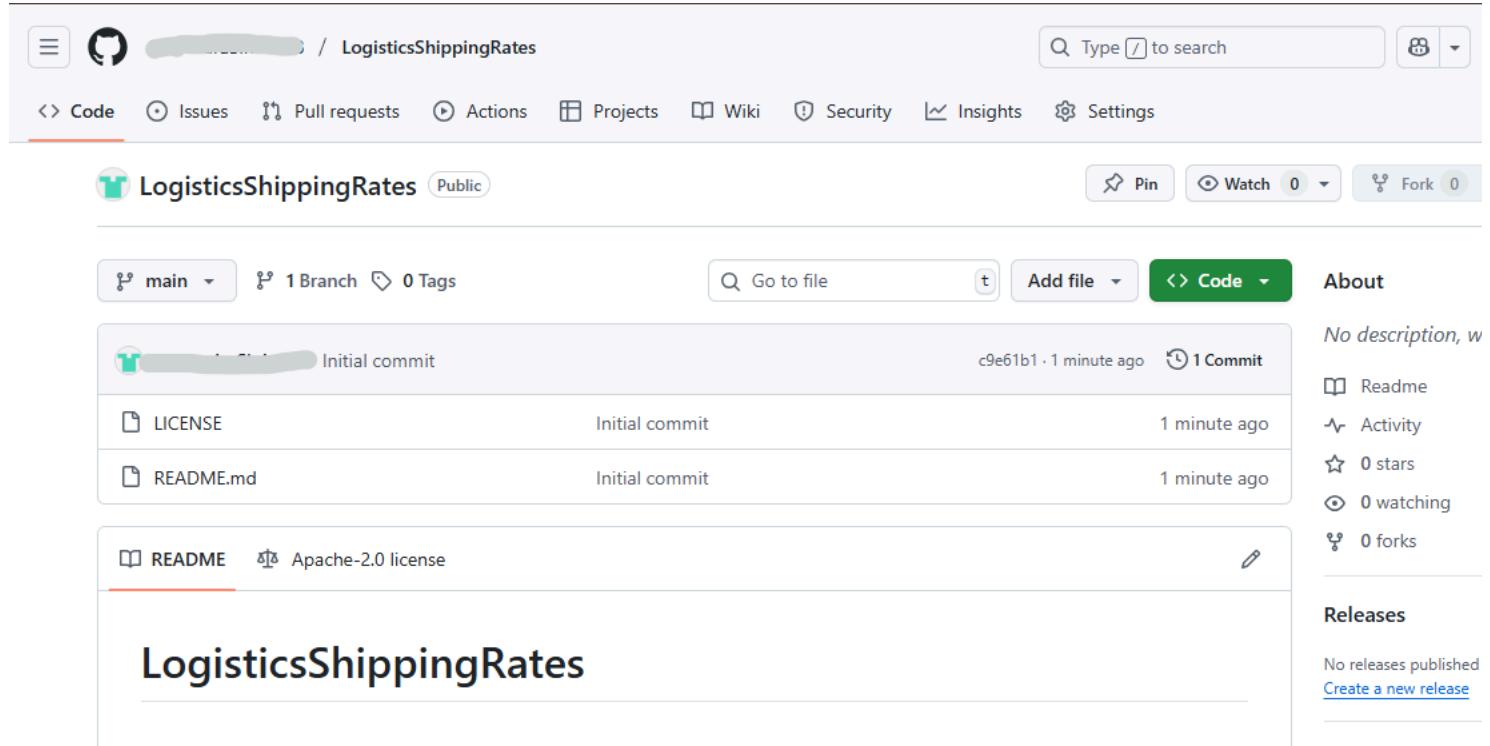
.gitignore tells git which files not to track. [About .gitignore files](#)

Add license  Apache License 2.0

Licenses explain how others can use your code. [About licenses](#)

Create repository

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



The screenshot shows a GitHub repository page for 'LogisticsShippingRates'. The repository is public and contains 1 branch and 0 tags. It has two commits: 'Initial commit' by the owner and 'LICENSE' and 'README.md' files. The 'README' file is currently selected, showing its content: 'LogisticsShippingRates'. The right sidebar provides repository statistics: 0 stars, 0 watching, and 0 forks. There is also a 'Releases' section indicating no releases have been published.

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

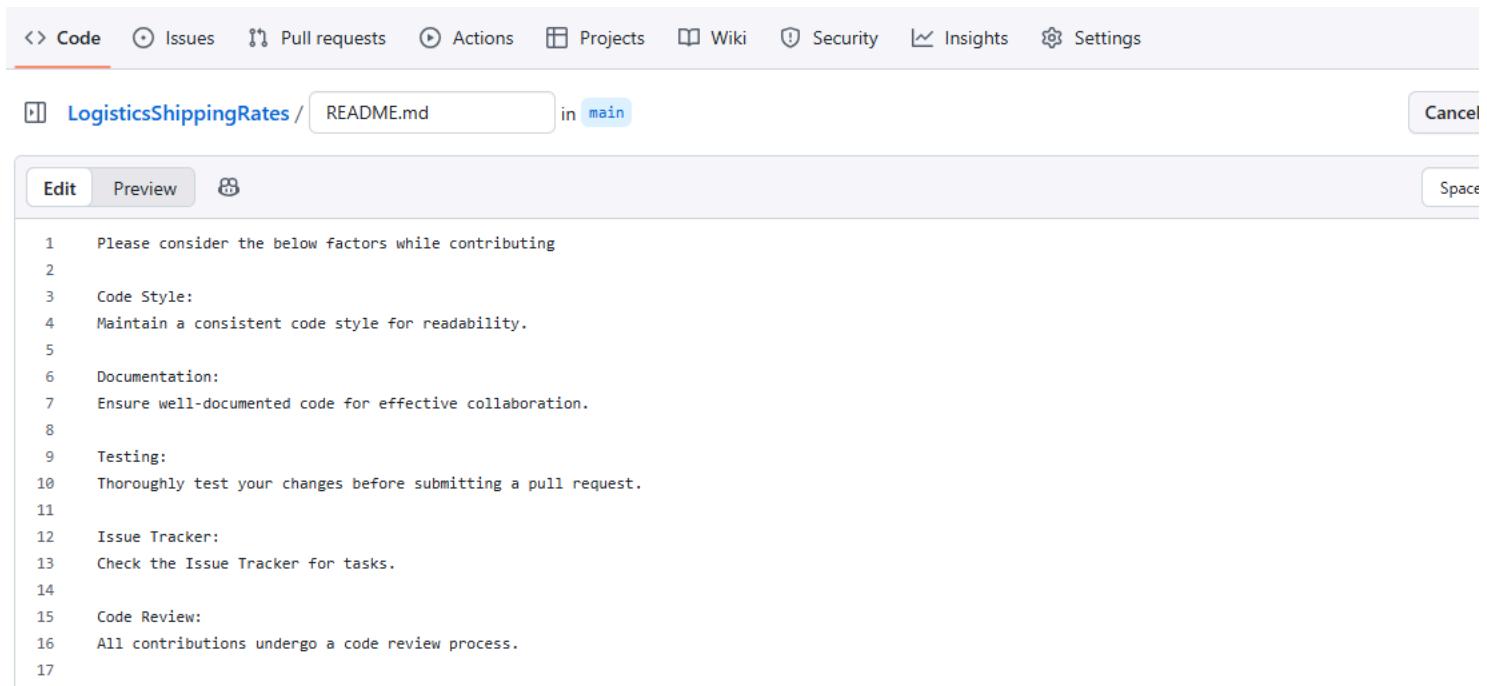
[Blame](#) 1 lines (1 loc) · 24 Bytes  Code 55% faster with GitHub Copilot

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.
```

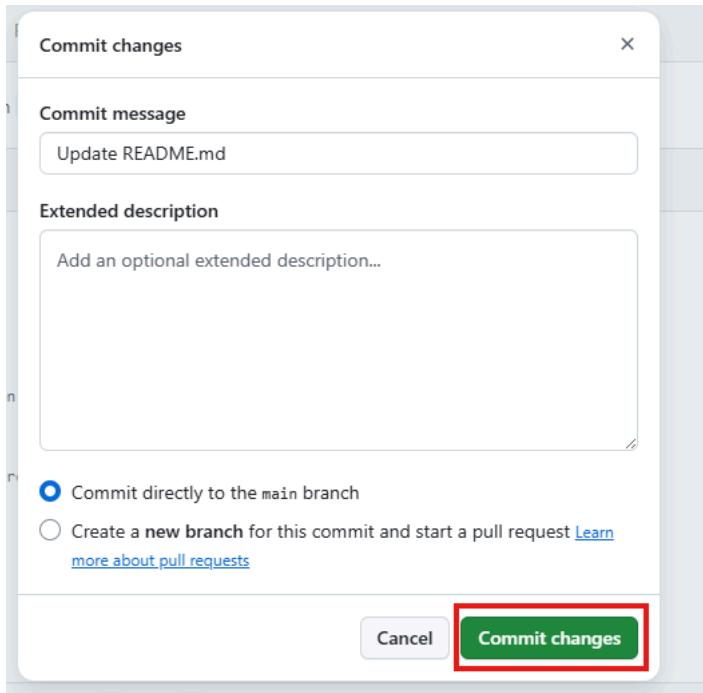
3. Now click on Commit changes



The screenshot shows the GitHub commit interface. At the top, there's a navigation bar with links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below that, a header bar shows the repository name "LogisticsShippingRates" and the file "README.md" with a status of "in main". There are "Edit" and "Preview" buttons. The main area contains the text from step 2, numbered 1 through 17. A "Space" button is visible on the right.

```
1 Please consider the below factors while contributing
2
3 Code Style:
4 Maintain a consistent code style for readability.
5
6 Documentation:
7 Ensure well-documented code for effective collaboration.
8
9 Testing:
10 Thoroughly test your changes before submitting a pull request.
11
12 Issue Tracker:
13 Check the Issue Tracker for tasks.
14
15 Code Review:
16 All contributions undergo a code review process.
17
```

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

CODE_OF_CONDUCT

Choose a code of conduct template

Enter file contents here

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

github.com says

You have unsaved changes. Do you want to discard them?

OK Cancel

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

Add a code of conduct to your project

Contributor Covenant
Recommended for projects of all sizes

Citizen Code Of Conduct
Suitable for large communities and events

Contributor Covenant Code of Conduct

Our Pledge

We as members, contributors, and leaders pledge to make participation in our community a harassment-free experience for everyone, regardless of age, body size, visible or invisible disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

We pledge to act and interact in ways that contribute to an open, welcoming, diverse, inclusive, and healthy community.

Our Standards

Examples of behavior that contributes to a positive environment for our community include:

- Demonstrating empathy and kindness toward other people
- Being respectful of differing opinions, viewpoints, and experiences
- Giving and gracefully accepting constructive feedback

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

LogisticsShippingRates / CODE_OF_CONDUCT.md in main Cancel

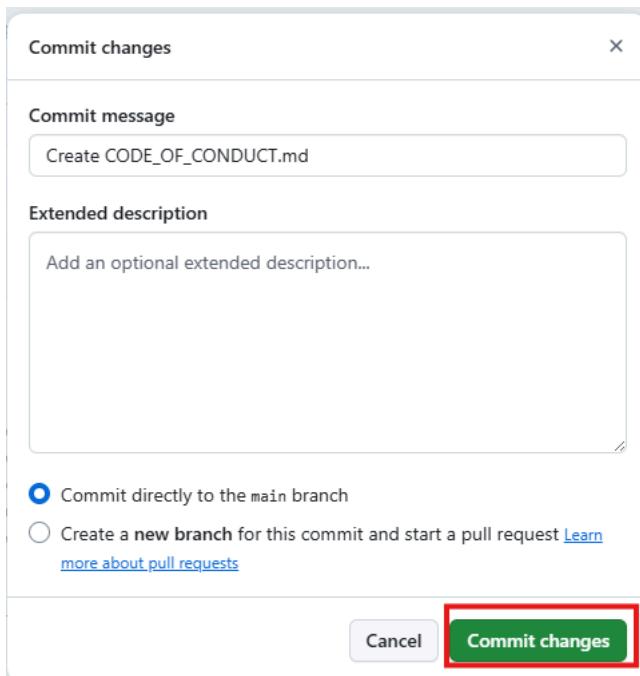
Edit Preview Choose a code of conduct template Space

```
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
```

Use **control + Shift + m** to toggle the **tab** key moving focus. Alternatively, use **esc** then **tab** to move to the next interactive element on the page.

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

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

Name	Last commit message
CODE_OF_CONDUCT.md	Create CODE_OF_CONDUCT.md
LICENSE	Initial commit
README.md	Update README.md
README.md	

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:

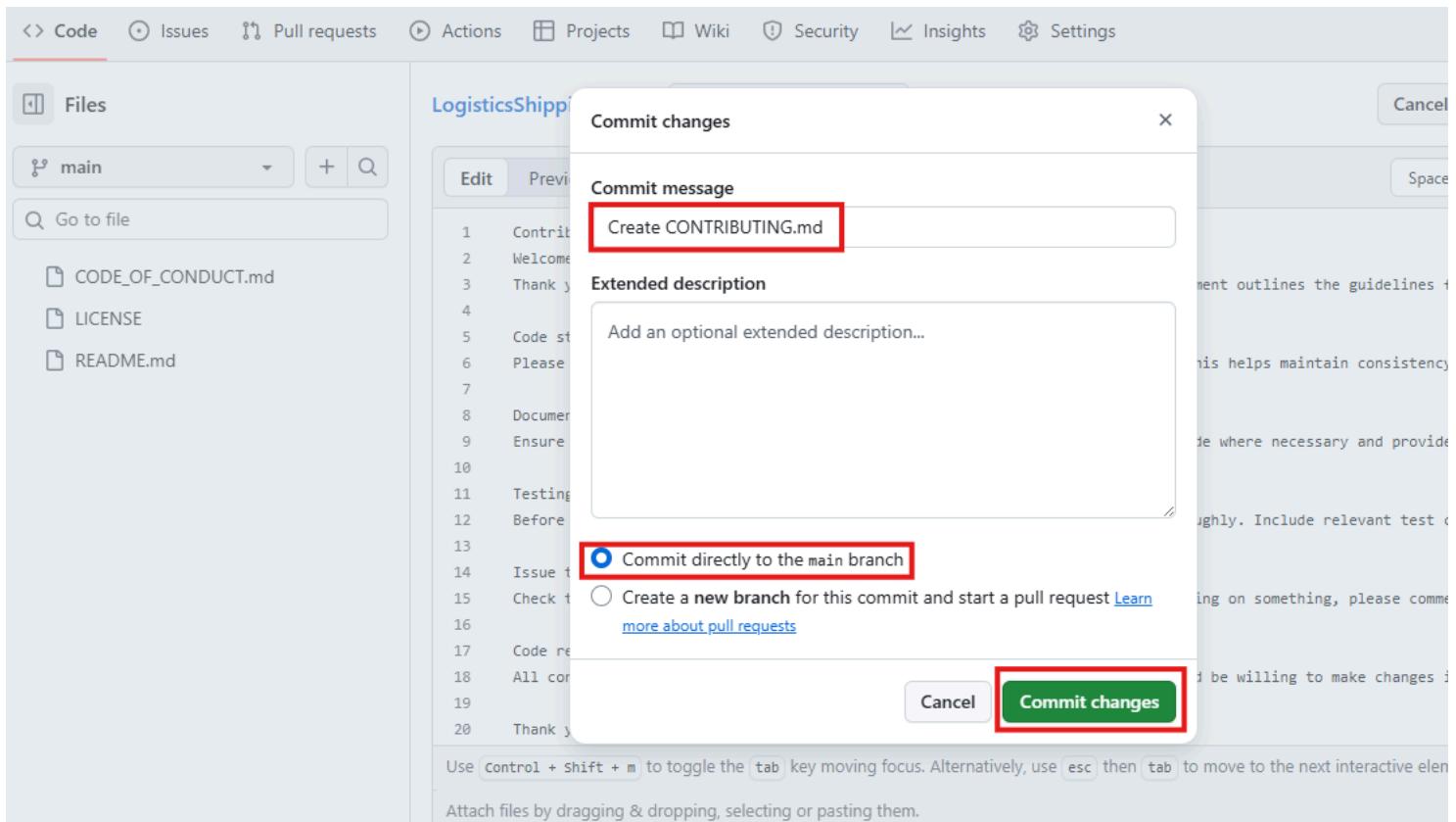
1. Create a new file in the repository's root directory and name it **CONTRIBUTING.md**.
2. Inside the file, include the following information:

```

Contribution guidelines
Welcome Contributors!
Thank you for considering contributing to the centralized repository. This document outlines the guidelines for contributing to the deve
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 descri
Testing
Before submitting a pull request, make sure your changes have been tested thoroughly. Include relevant test cases and ensure that existi
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 othe
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 h
Thank you for your contribution!

```

3. Commit this file to your repository.



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

The screenshot shows the GitHub repository 'LogisticsShippingRates' on the 'Code' tab. The repository is public. It shows 1 branch and 0 tags. The file 'CONTRIBUTING.md' is highlighted with a red box. The file list includes 'CODE_OF_CONDUCT.md', 'CONTRIBUTING.md' (highlighted), 'LICENSE', and 'README.md'.

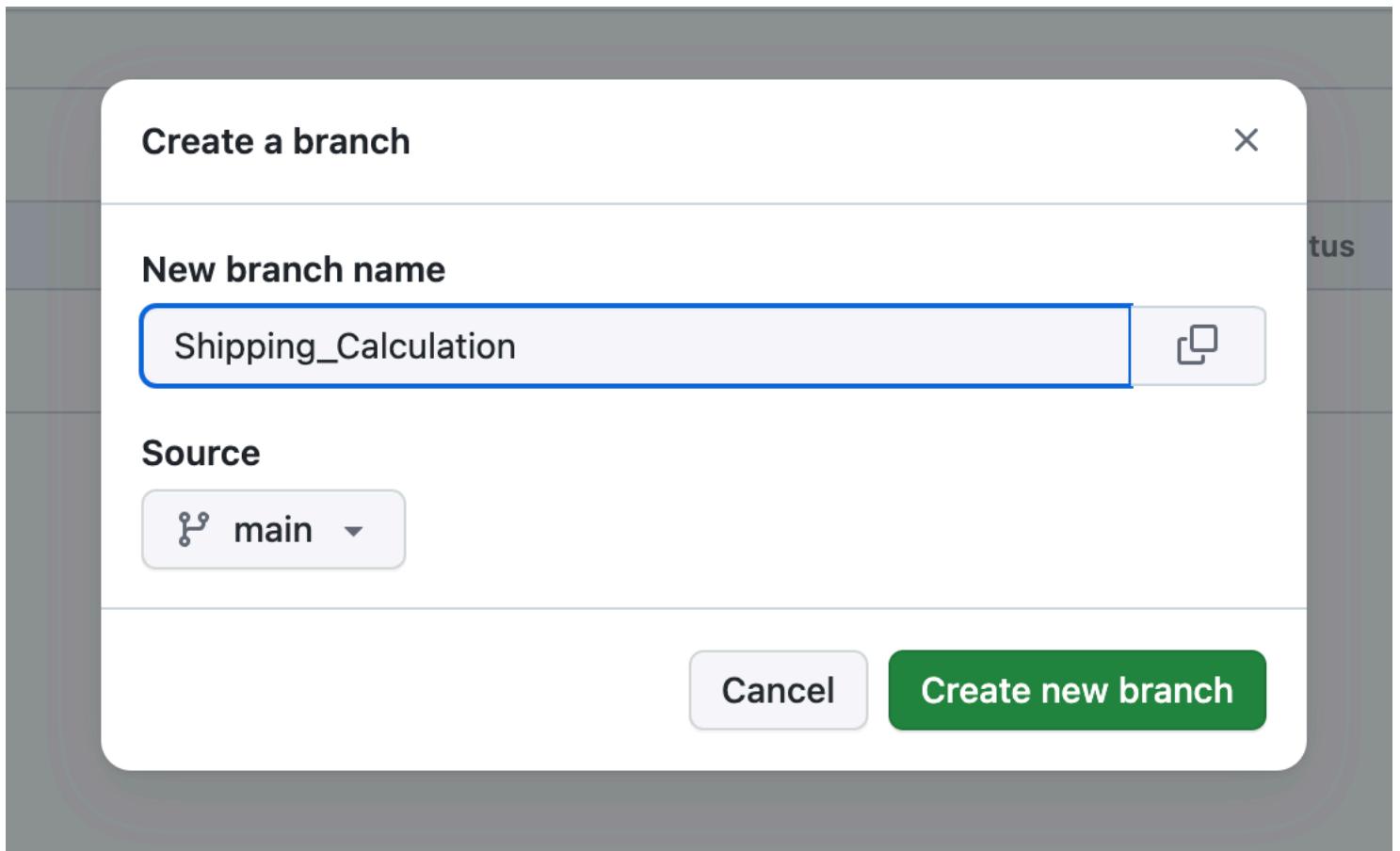
Your project now contains Contribution Guidelines as well.

Task 5: Create a new branch.

- Click on branch in your repository.

The screenshot shows the GitHub repository 'LogisticsShippingRates' on the 'Code' tab. The repository is public. It shows 1 Branch and 0 Tags. The 'New Branch' button is visible on the right side of the interface.

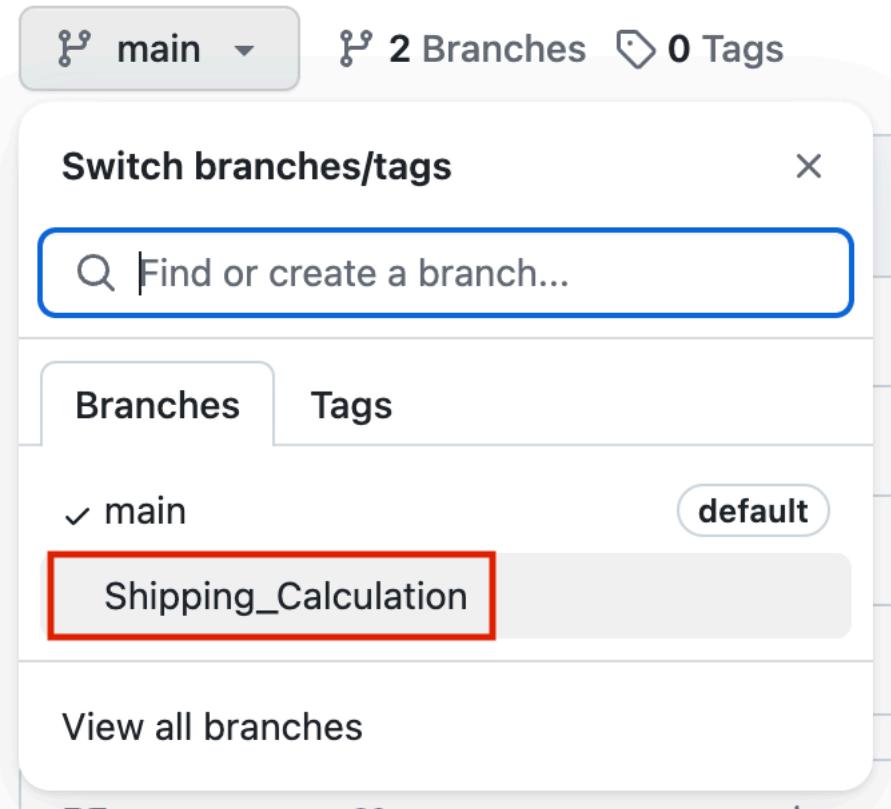
- Now, click on New Branch and enter the branch name as Shipping_Calculation, then click Create New Branch



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.

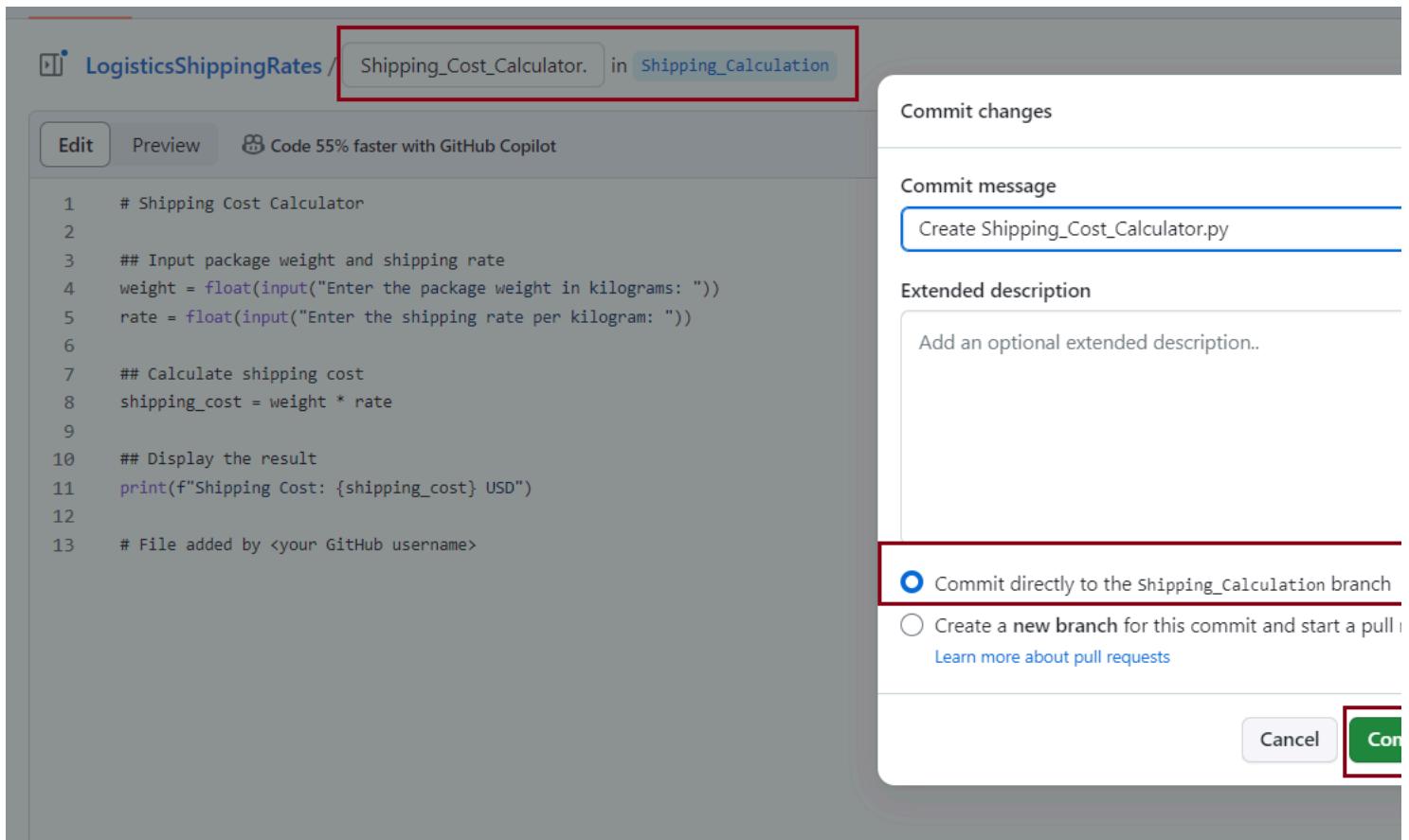


2. Create a new file named `Shipping_Cost_Calculator.py`.

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.

The screenshot shows the GitHub repository interface with the 'Pull requests' tab highlighted with a red box. The tabs include 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', and 'Books'. Below the tabs, there's a promotional message: 'Label issues and pull requests for new contributors' and 'Now, GitHub will help potential first-time contributors discover good first issue'. At the bottom, a yellow box displays a notification: '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 need

The screenshot shows a top navigation bar with a red box highlighting the dropdown menus for 'base' and 'compare'. The 'base' dropdown is set to 'main' and the 'compare' dropdown is set to 'Shipping_Calculation'. To the right of these dropdowns, a green checkmark icon and the text 'Able to merge. The' are visible.



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 | [LogisticsShippingRates](#)

The screenshot shows the 'Branch protection rules' section for the 'LogisticsShippingRates' branch. It includes the following items:

- Require approval from specific reviewers before merging**: A note stating that [Branch protection rules](#) ensure specific people approve pull requests before they're merged. An 'Add rule' button and a close 'X' button are visible.
- Continuous integration has not been set up**: A note mentioning [GitHub Actions](#) and [several other apps](#) for catching bugs and enforcing style.
- This branch has no conflicts with the base branch**: A note stating that merging can be performed automatically.

A red box highlights the green 'Merge pull request' button at the bottom left. To its right, a note says: '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:

The screenshot shows a modal dialog for merging a pull request:

- The title bar says 'Merge pull request #1 from [Shipping_Calculation](#)'.
- The main message area says 'Merging Shipping_Cost_Calculator.py to the master branch'.
- Below the message, it says 'This commit will be authored by 85282 [REDACTED] @users.noreply.github.com'.
- At the bottom, there are two buttons: a green 'Confirm merge' button with a red border, and a white 'Cancel' button.

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

Merge Shipping_Cost_Calculator.py to main

Merged

lauvshree merged 1 commit into [main](#) from [Shipping_Calculation](#)

Conversation 0

Commits 1

Checks 0

Files ch



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 file

**lauvshree** Merge pull request #1 from lauvshree/Shipping_Calculation ⋮

CODE_OF_CONDUCT.md

Create CODE_OF_CONDU

CONTRIBUTING.md

Create CONTRIBUTING.m

LICENSE

Initial commit

README.md

Update README.md

Shipping_Cost_Calculator.py

Create Shipping_Cost_Cal

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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