

# 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.

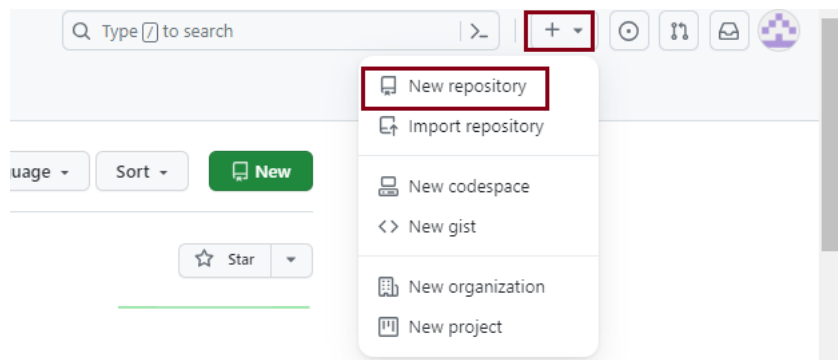
## Objectives

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

Choose who can see and commit to this repository

Start with a template

Templates pre-configure your repository with files.

Add README ☒ On 

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

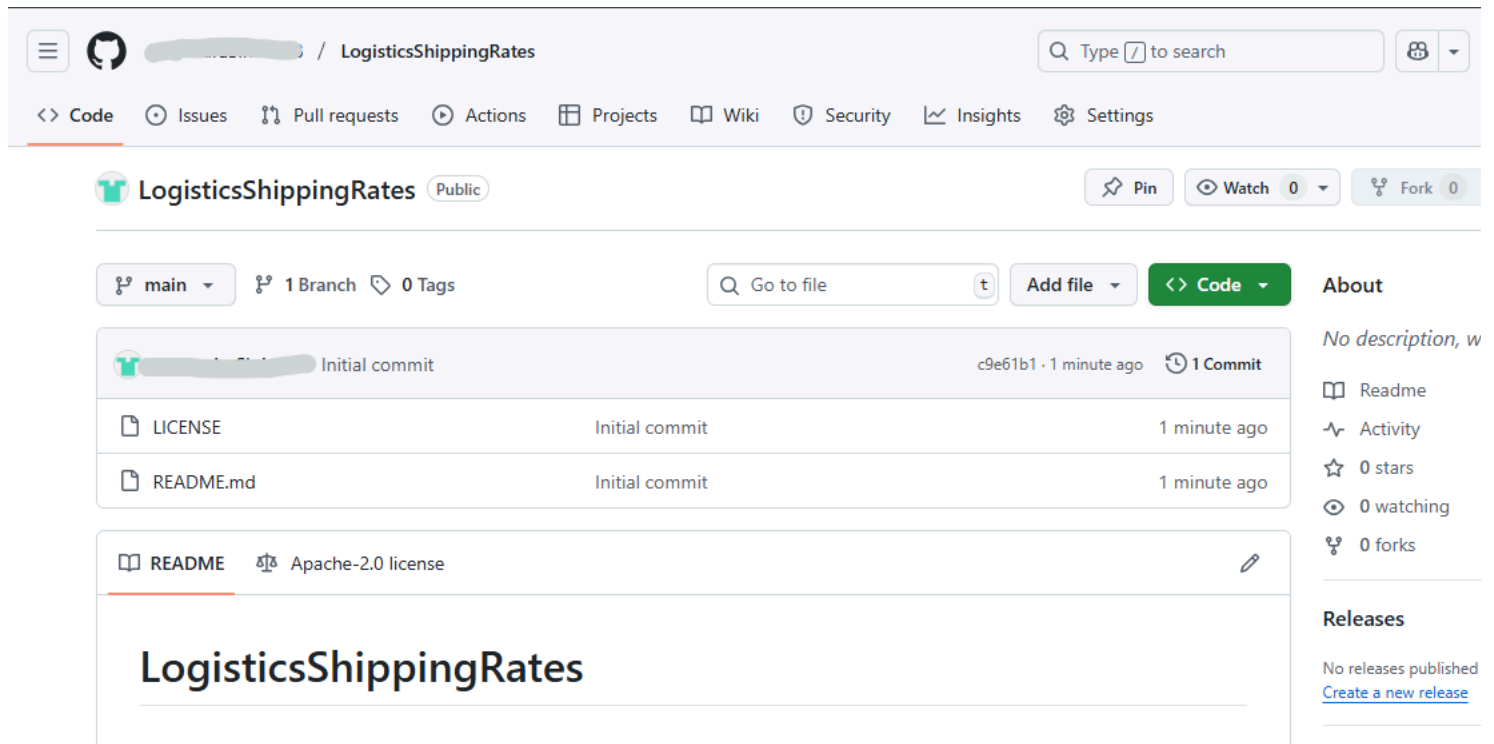
Add .gitignore

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

Add license

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

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 contains an initial commit with files LICENSE and README.md. The README file is open, showing the repository name and Apache-2.0 license. The interface includes a navigation bar with links to Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The repository page shows the main branch, 1 branch, and 0 tags. The commit history shows the initial commit with files LICENSE and README.md. The README file is open, showing the repository name and Apache-2.0 license.


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

[<> Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)[LogisticsShippingRates](#) / README.md in [main](#)

Cancel

[Edit](#) [Preview](#) 

Space

```
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

**Commit changes** X

**Commit message**

Update README.md

**Extended description**

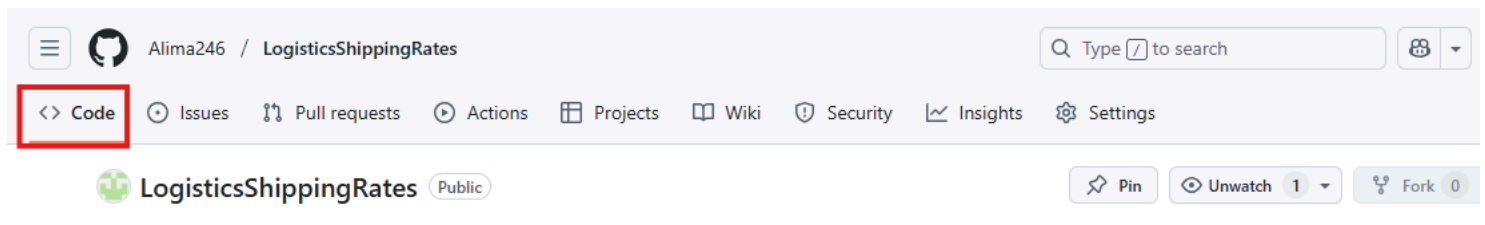
Add an optional extended description...

☒ Commit directly to the main 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:

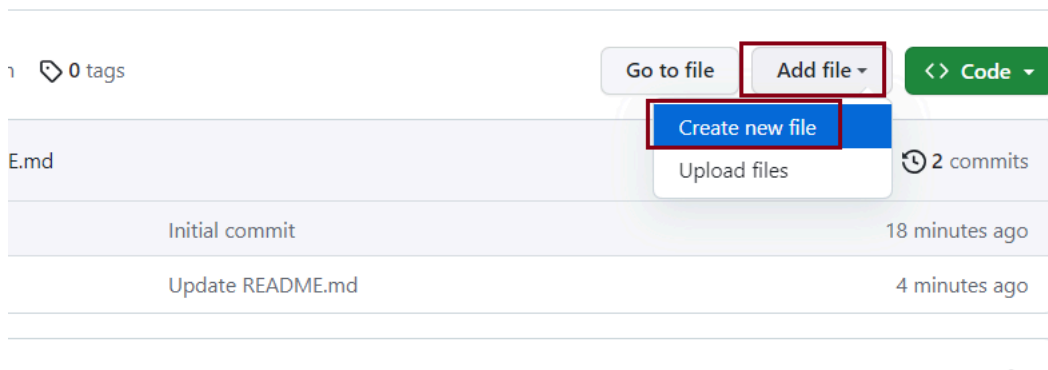


### Task 3: Add a code of conduct.

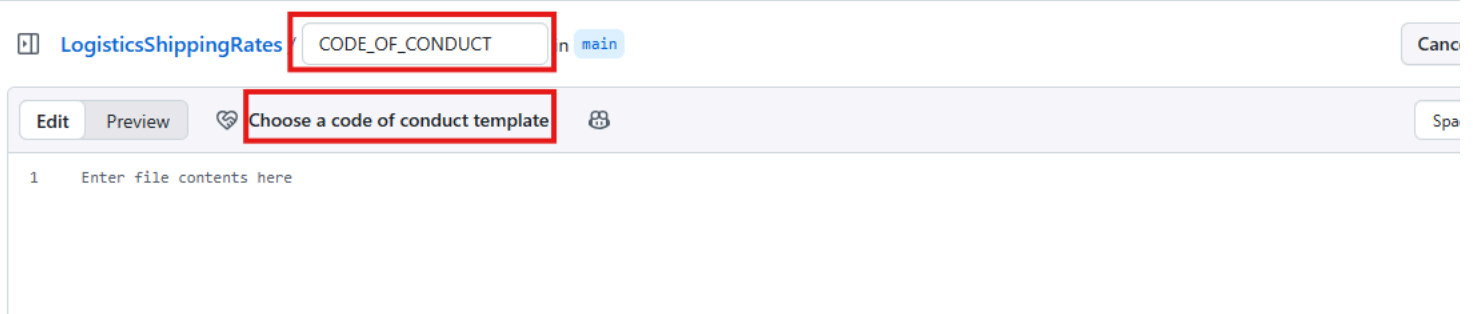
A code of conduct helps set ground rules for the behavior of your project's participants. It defines standards for how to engage in a community.

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

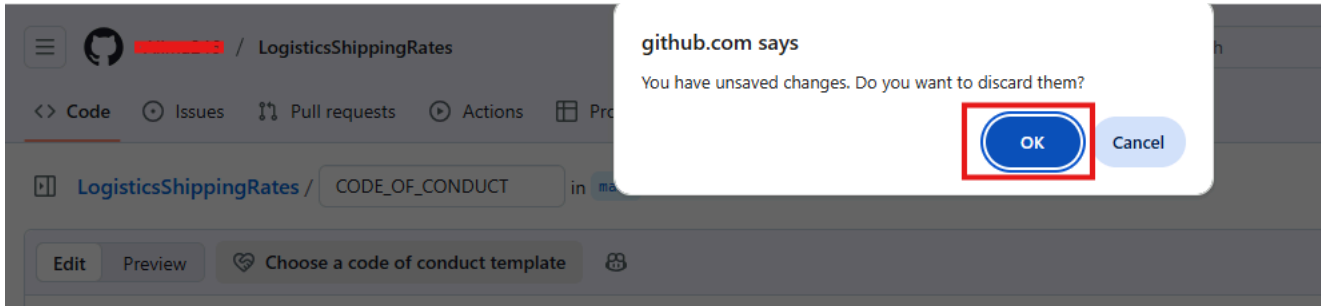
1. To create a new file click on **Add file** and then Create New File.



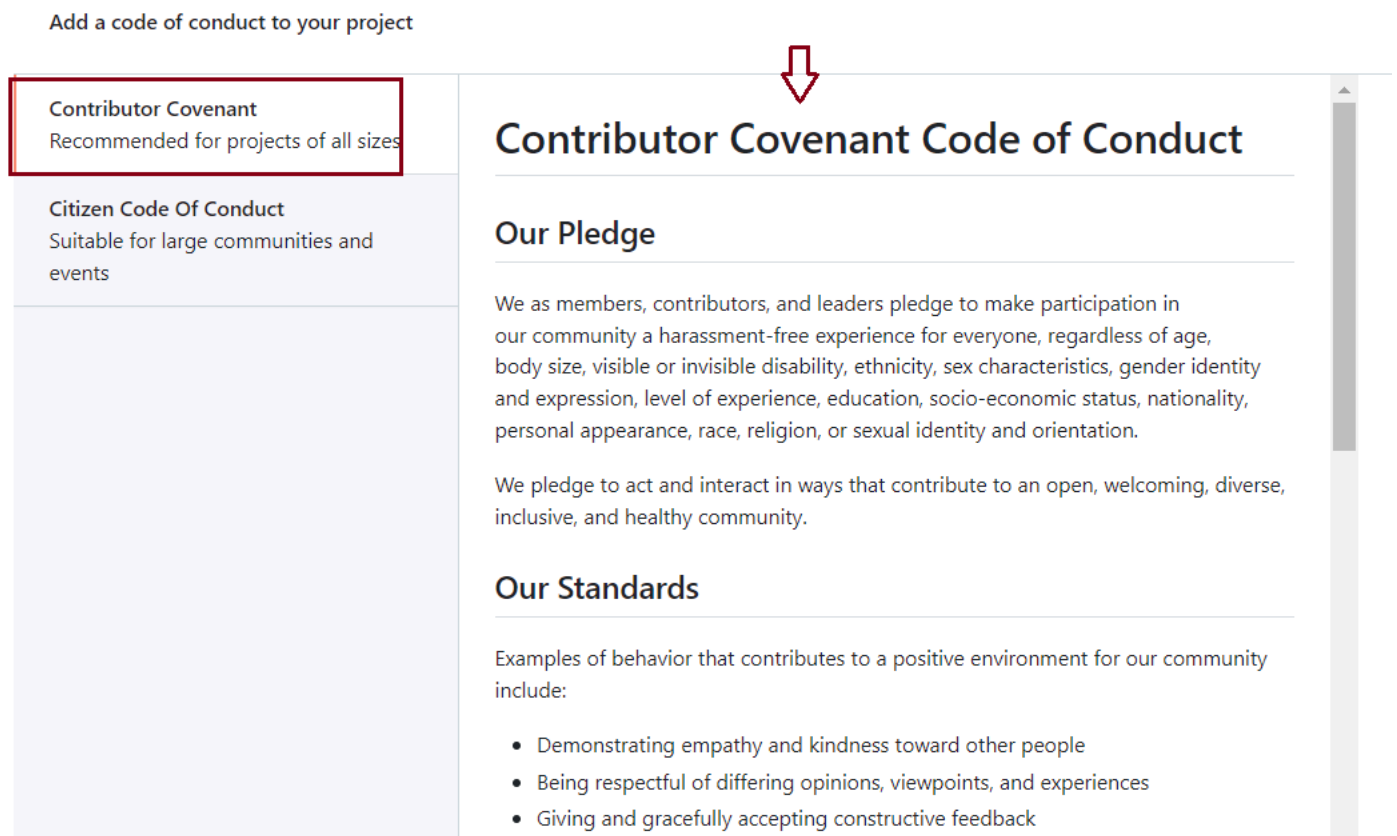
2. Add a new file named `CODE_OF_CONDUCT.md` to the root folder of the repository. The **Choose a code of conduct template** button is displayed.



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.

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**.

Commit changes ×

Commit message

Create CODE\_OF\_CONDUCT.md

Extended description

Add an optional extended description...

☒ Commit directly to the main branch




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


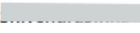
Cancel




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.

  main  [LogisticsShippingRates /](#) Q Go to file

  3 Create CODE\_OF\_CONDUCT.md

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

**README.md**

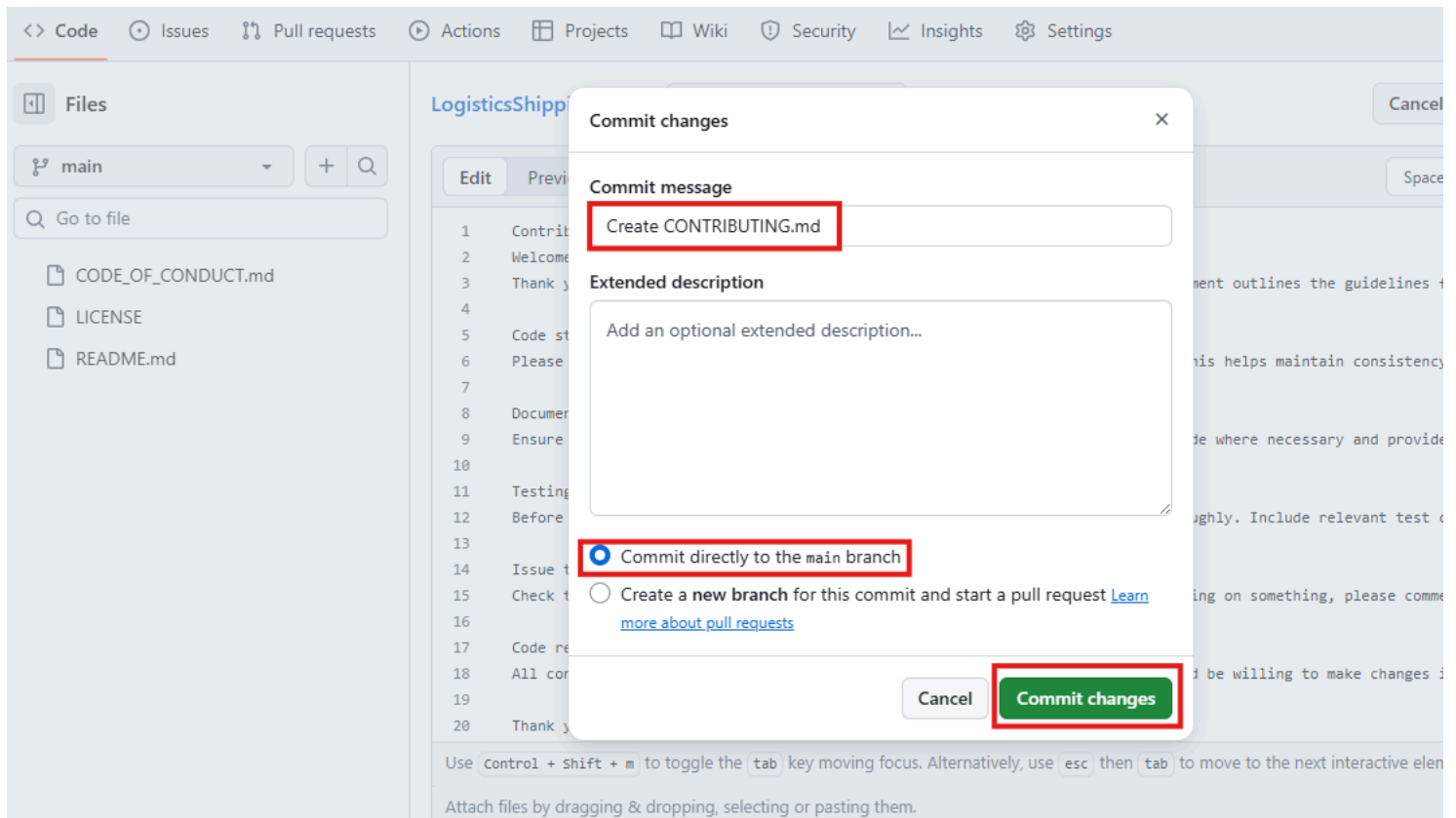
## Task 4: Establish contribution guidelines.

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

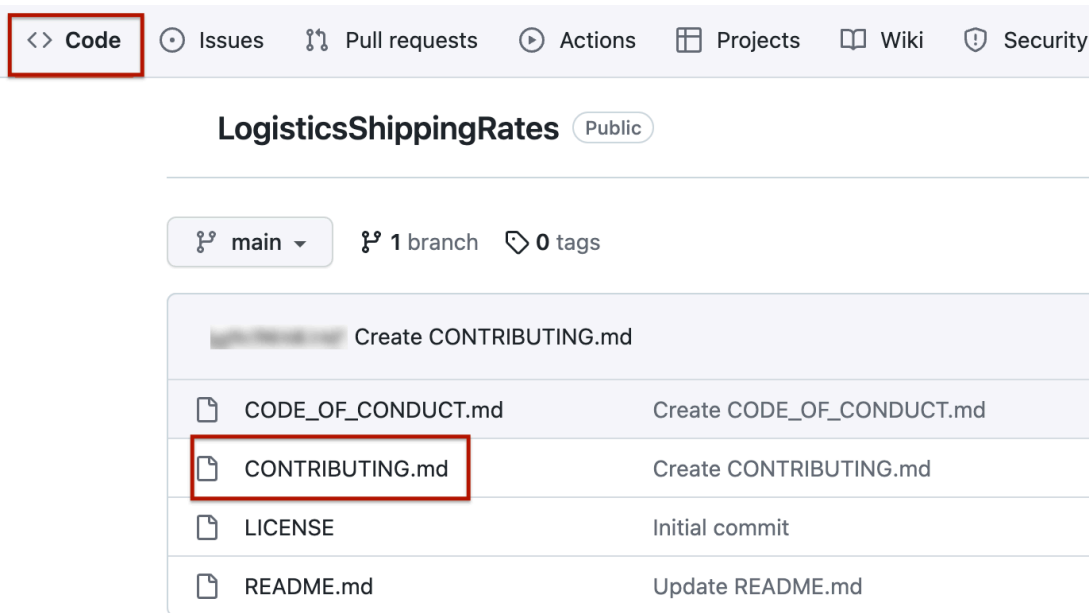
1. Create a new file in the repository's root directory and name it CONTRIBUTING.md.
2. Inside the file, include the following information:

```
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.



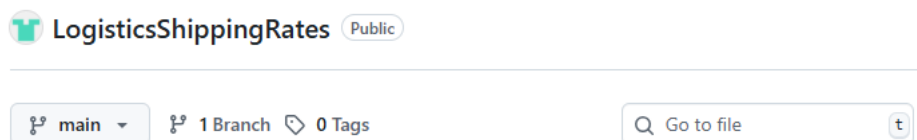
4. Click on Code to go to the repository home page.



Your project now contains Contribution Guidelines as well.

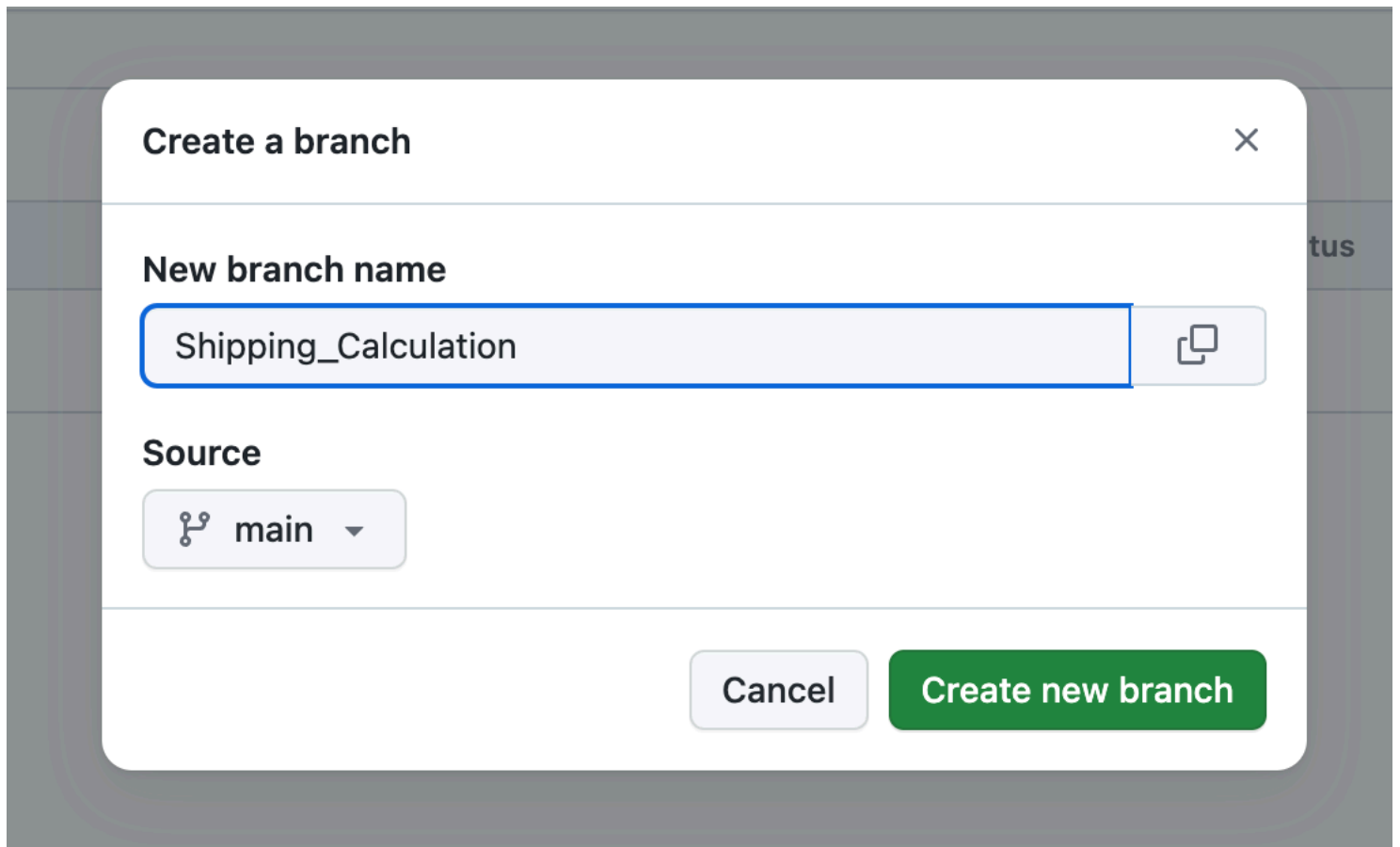
## Task 5: Create a new branch.

1. Click on branch in your repository.



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**

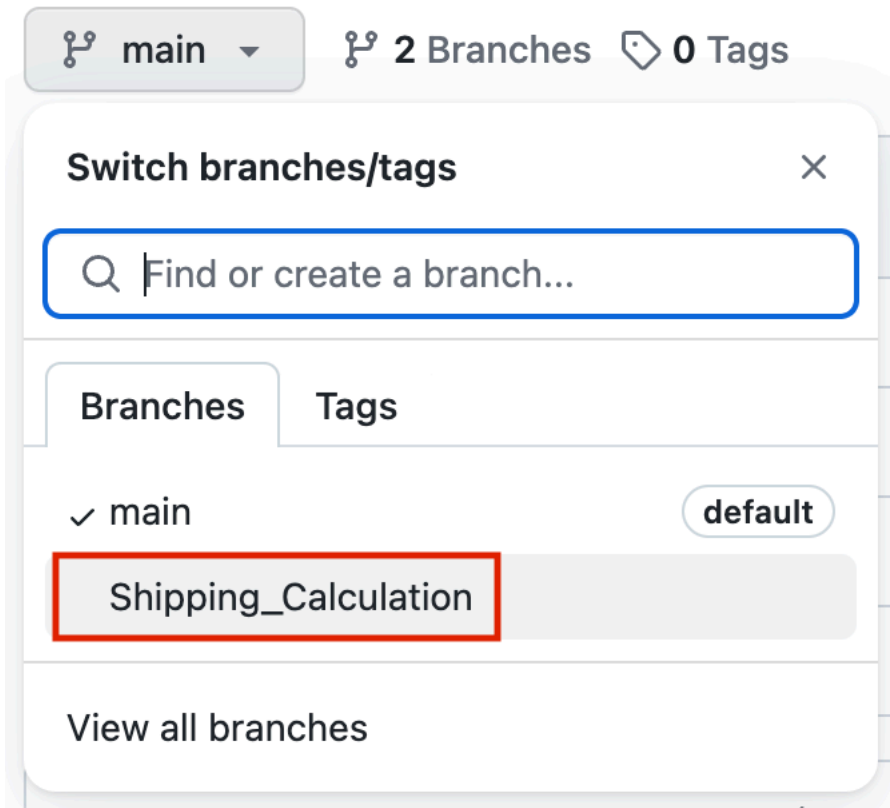
🔗 main ▼

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`.

LogisticsShippingRates / Shipping\_Cost\_Calculator. in Shipping\_Calculation

Edit Preview Code 55% faster with GitHub Copilot

```

1 # Shipping Cost Calculator
2
3 ## Input package weight and shipping rate
4 weight = float(input("Enter the package weight in kilograms: "))
5 rate = float(input("Enter the shipping rate per kilogram: "))
6
7 ## Calculate shipping cost
8 shipping_cost = weight * rate
9
10 ## Display the result
11 print(f"Shipping Cost: {shipping_cost} USD")
12
13 # File added by <your GitHub username>

```

Commit changes

Commit message

Create Shipping\_Cost\_Calculator.py

Extended description

Add an optional extended description..

☒ Commit directly to the Shipping\_Calculation branch

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

[Learn more about pull requests](#)

Cancel Create

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.

<> Code Issues **Pull requests** Actions Projects Bookmarks

## 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 need



base: main ▾

← ...

compare: Shipping\_Calculation ▾

✓ **Able to merge.** The



## 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

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

Add rule



### 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:

The image shows a GitHub merge confirmation dialog. At the top, it says "Merge pull request #1 from [redacted] Shipping\_Calculation". Below that, it says "Merging Shipping\_Cost\_Calculator.py to the master branch". Underneath, it states "This commit will be authored by 85282-[redacted]@users.noreply.github.com". At the bottom, there are two buttons: "Confirm merge" (highlighted with a red box) and "Cancel".

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


# Merge Shipping\_Cost\_Calculator.py to t


 Mergedlauvshree 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**

 **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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**K Sundararajan**



# Skills Network