

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.

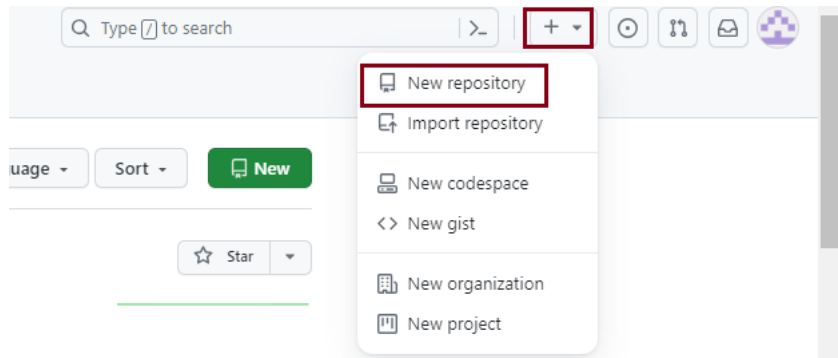
Objectives

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 *

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 has no description, website, or topics provided. It shows the initial commit with files LICENSE and README.md. The README file is selected, showing the title "LogisticsShippingRates" and the Apache-2.0 license. The right sidebar contains links to Readme, Activity, 0 stars, 0 watching, and 0 forks. The bottom section shows the "Releases" tab with a link to "Create a new release".

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.

The screenshot shows the README.md file in the "LogisticsShippingRates" repository. The file is titled "LogisticsShippingRates" and has a pencil icon to edit it. The file content is currently blank, with the text "LogisticsShippingRates" visible at the top. The bottom of the page shows the "Blame" tab with 1 line (1 loc) and 24 Bytes, and a note that "Code 55% faster with GitHub Copilot".

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.

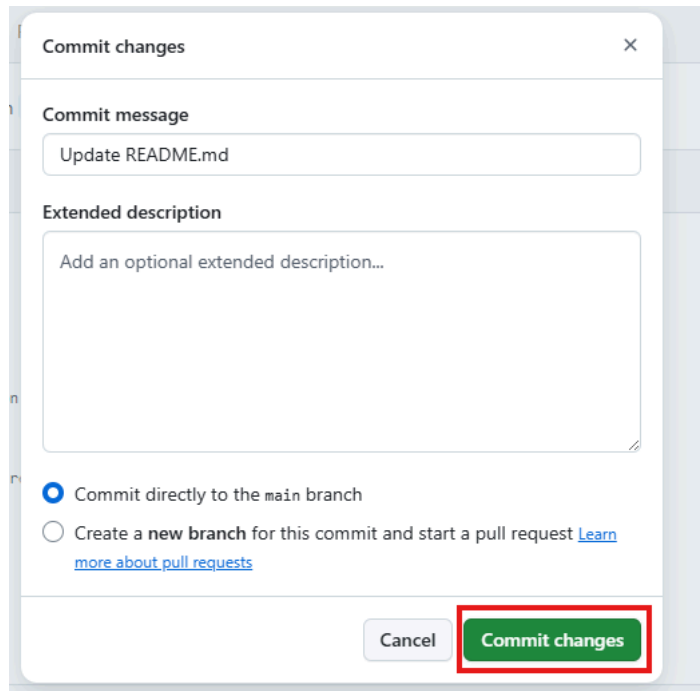
Licensing:
Contributions are licensed.

3. Now click on Commit changes

The screenshot shows the GitHub web interface for the repository 'LogisticsShippingRates'. The file 'README.md' is selected in the 'main' branch. The interface includes a navigation bar with links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the navigation bar, there are buttons for 'Cancel changes' and 'Commit changes...'. The 'Commit changes...' button is highlighted with a red rectangle. The main content area shows the 'Edit' tab selected, with a preview of the README.md file. The file content is as follows:

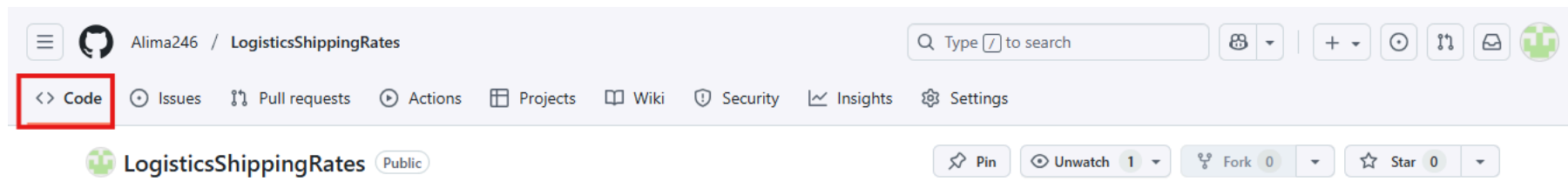
```
1 Please consider the below factors while contributing
2
3 Code Style:
4 Maintain a consistent code style for readability.
5
6 Documentation:
7 Ensure well-documented code for effective collaboration.
8
9 Testing:
10 Thoroughly test your changes before submitting a pull request.
11
12 Issue Tracker:
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



The screenshot shows the 'Commit changes' dialog box in GitHub. It has a title bar with a close button. Below the title bar, there is a 'Commit message' section with a text input field containing 'Update README.md'. Below that is an 'Extended description' section with a larger text area containing the placeholder text 'Add an optional extended description...'. At the bottom, there are two radio button options: 'Commit directly to the main branch' (which is selected) and 'Create a new branch for this commit and start a pull request' (with a link to 'Learn more about pull requests'). At the very bottom, there are two buttons: 'Cancel' and 'Commit changes'. The 'Commit changes' button is highlighted with a red rectangular box.

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:

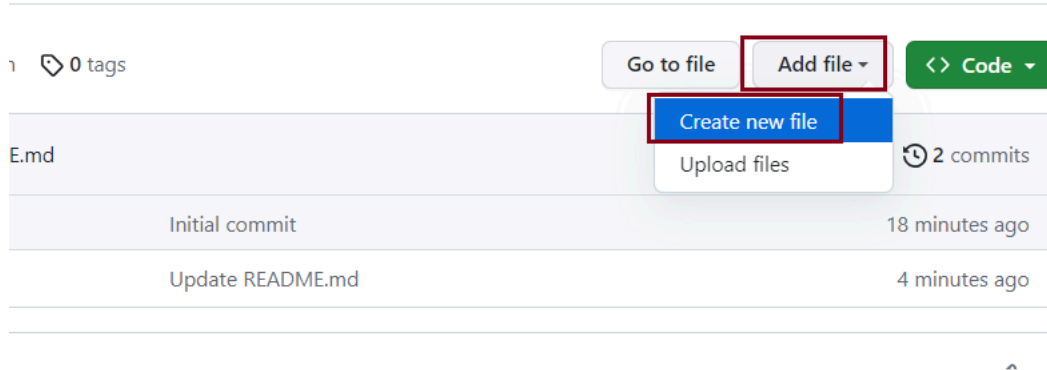


Task 3: Add a code of conduct.

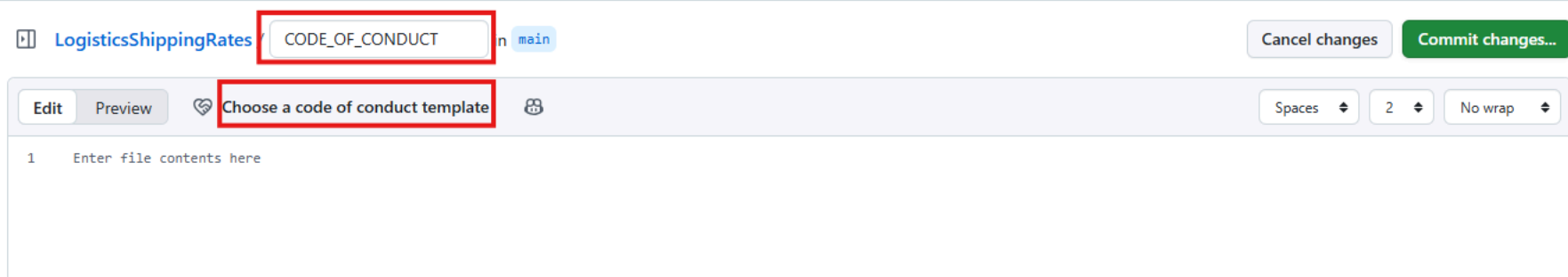
A code of conduct helps set ground rules for the behavior of your project's participants. It defines standards for how to engage in a community.

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

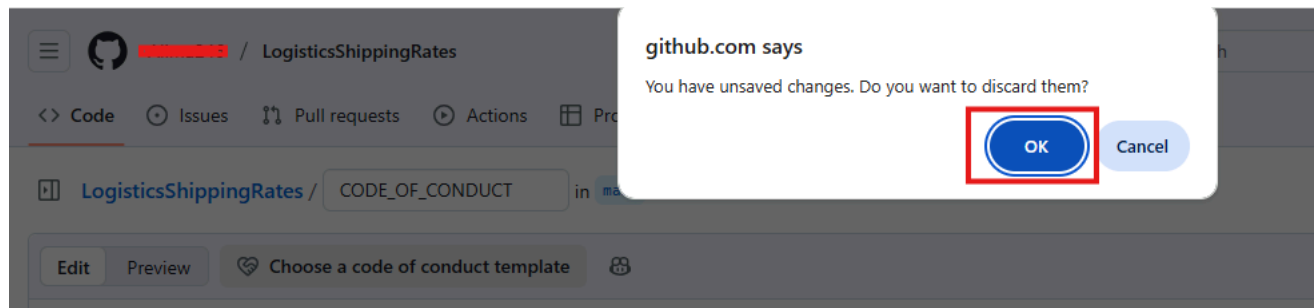
1. To create a new file click on **Add file** and then Create New File.



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.

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:

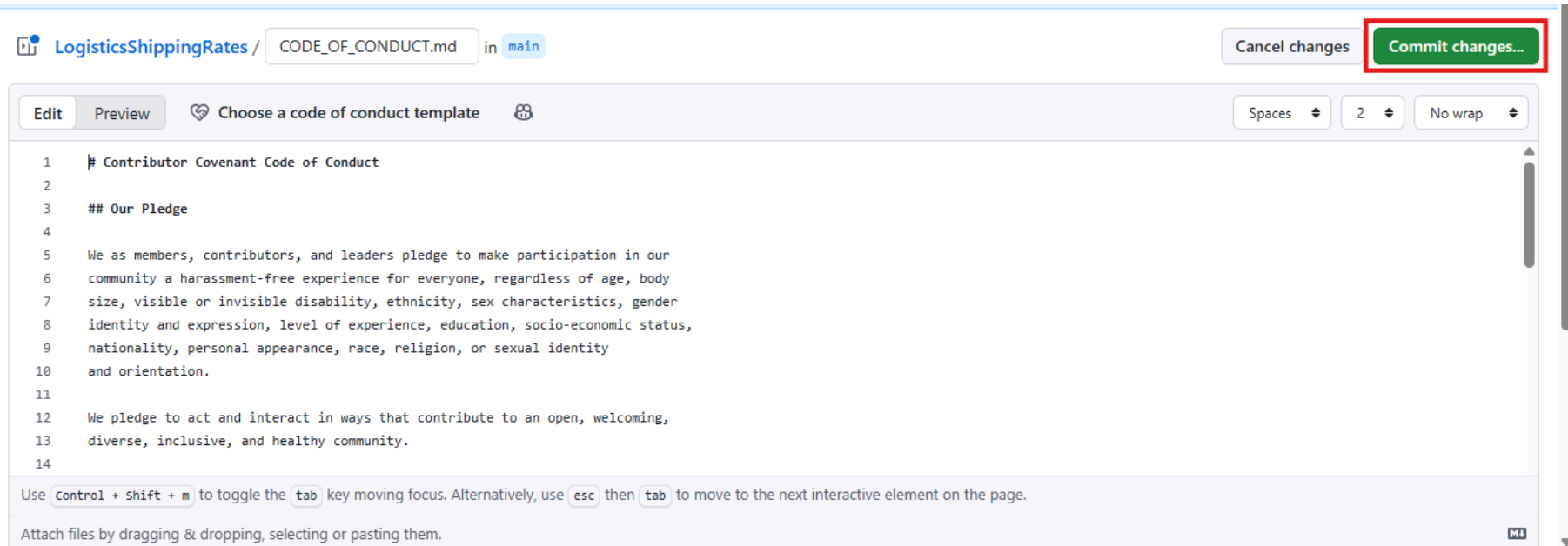
- Demonstrating empathy and kindness toward other people
- Being respectful of differing opinions, viewpoints, and experiences
- Giving and gracefully accepting constructive feedback

To adopt **Contributor Covenant**, enter your details. You'll have a chance to review before committing a `CODE_OF_CONDUCT.md` file to a new branch or the root of your project.

Contact method

Review and submit

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



LogisticsShippingRates / CODE_OF_CONDUCT.md in main

Cancel changes Commit changes...

Edit Preview Choose a code of conduct template

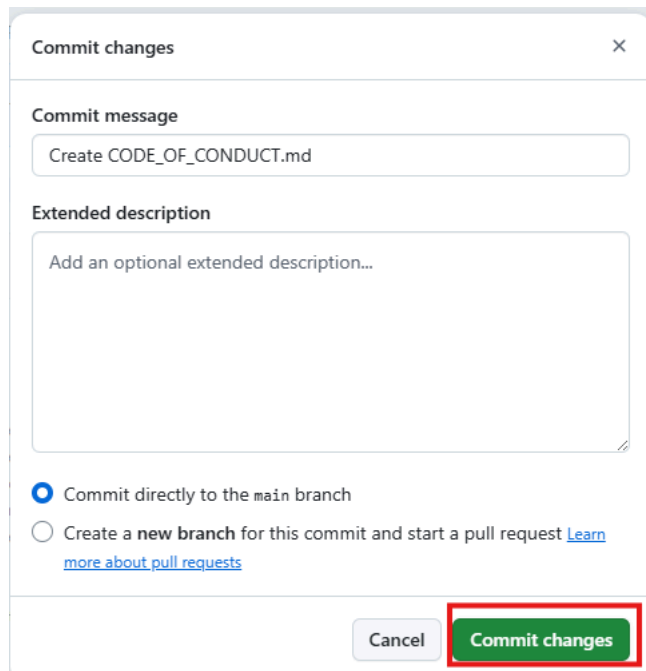
Spaces 2 No wrap

```
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 /

Go to file

Add file

3

Create CODE_OF_CONDUCT.md

52d15de · 1 minute ago

History

Name	Last commit message	Last commit date
CODE_OF_CONDUCT.md	Create CODE_OF_CONDUCT.md	1 minute ago
LICENSE	Initial commit	14 minutes ago
README.md	Update README.md	7 minutes ago

README.md

Task 4: Establish contribution guidelines.

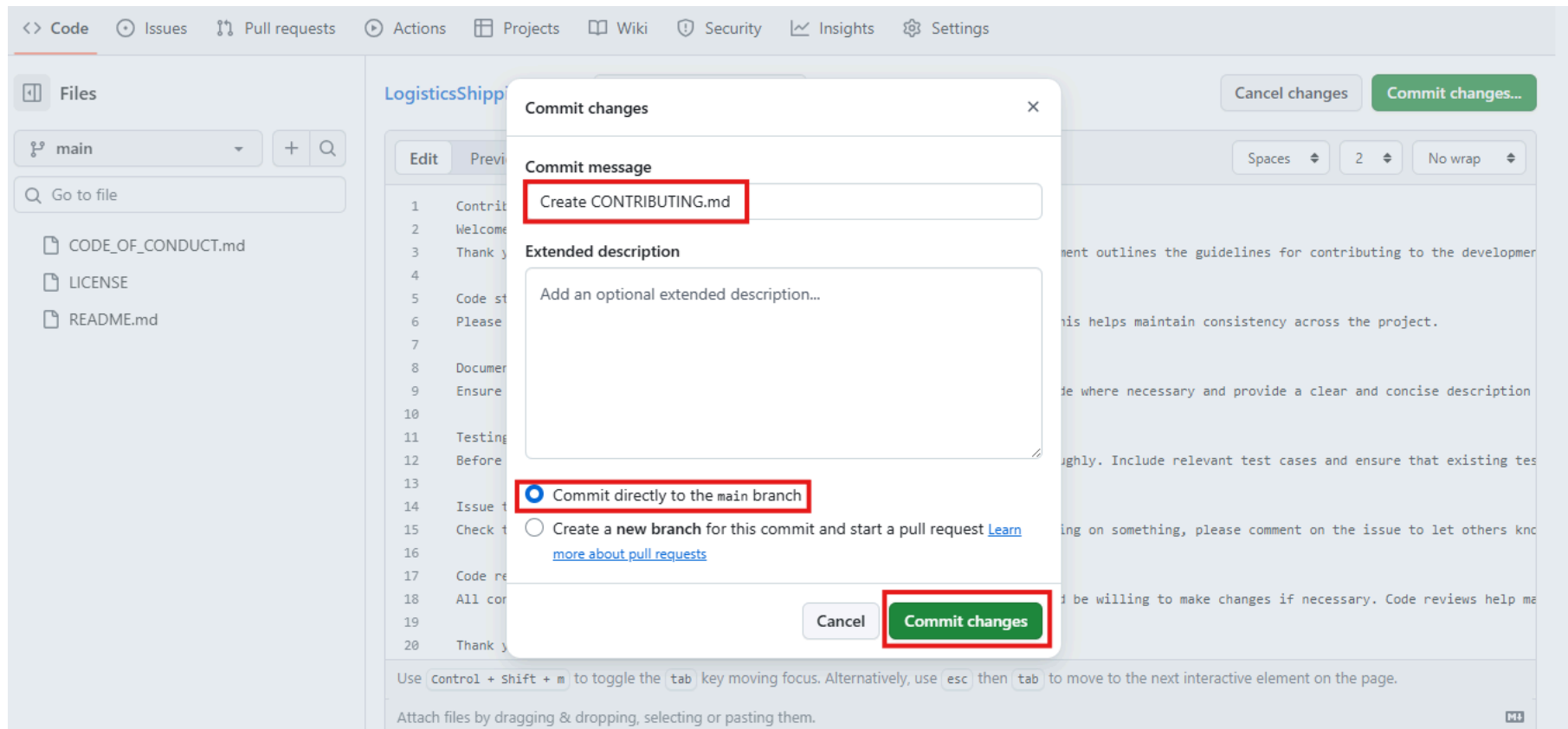
Contribution guidelines provide clear instructions for individuals looking to contribute to the project. To implement these guidelines, please follow these steps:

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 development of Shipping Rates and Calculations.
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 your changes in the pull request.
Testing
Before submitting a pull request, make sure your changes have been tested thoroughly. Include relevant test cases and ensure that existing tests pass.
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 maintain code quality and consistency.
Thank you for your contribution!
  
```

3. Commit this file to your repository.



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

<> **Code**

Issues

Pull requests

Actions

Projects

Wiki

Security

LogisticsShippingRates Public

main 1 branch 0 tags

Create CONTRIBUTING.md	
CODE_OF_CONDUCT.md	Create CODE_OF_CONDUCT.md
CONTRIBUTING.md	Create CONTRIBUTING.md
LICENSE	Initial commit
README.md	Update README.md

Your project now contains Contribution Guidelines as well.

Task 5: Create a new branch.

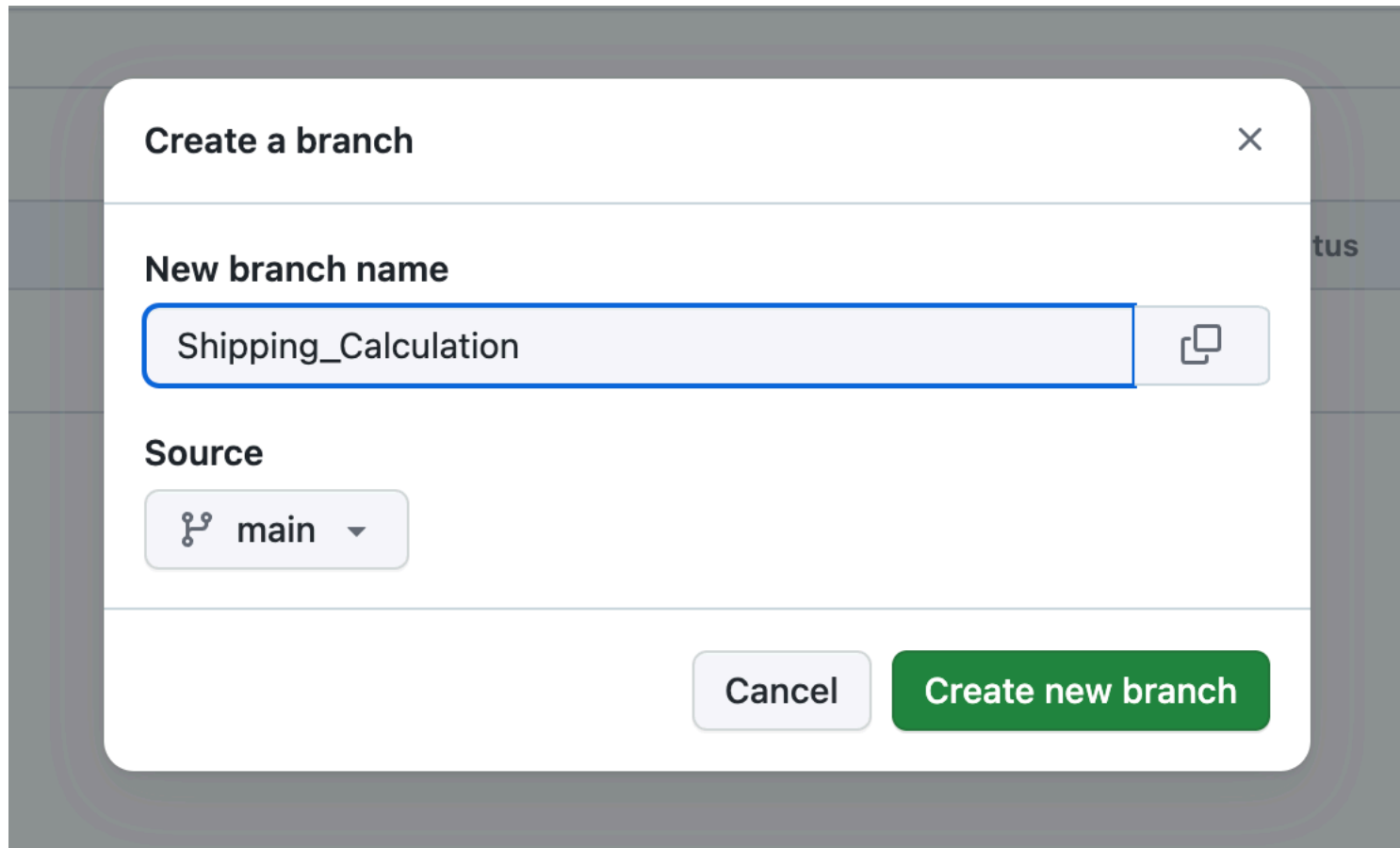
1. Click on branch in your repository.

LogisticsShippingRates Public

main 1 Branch 0 Tags


Go to file

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

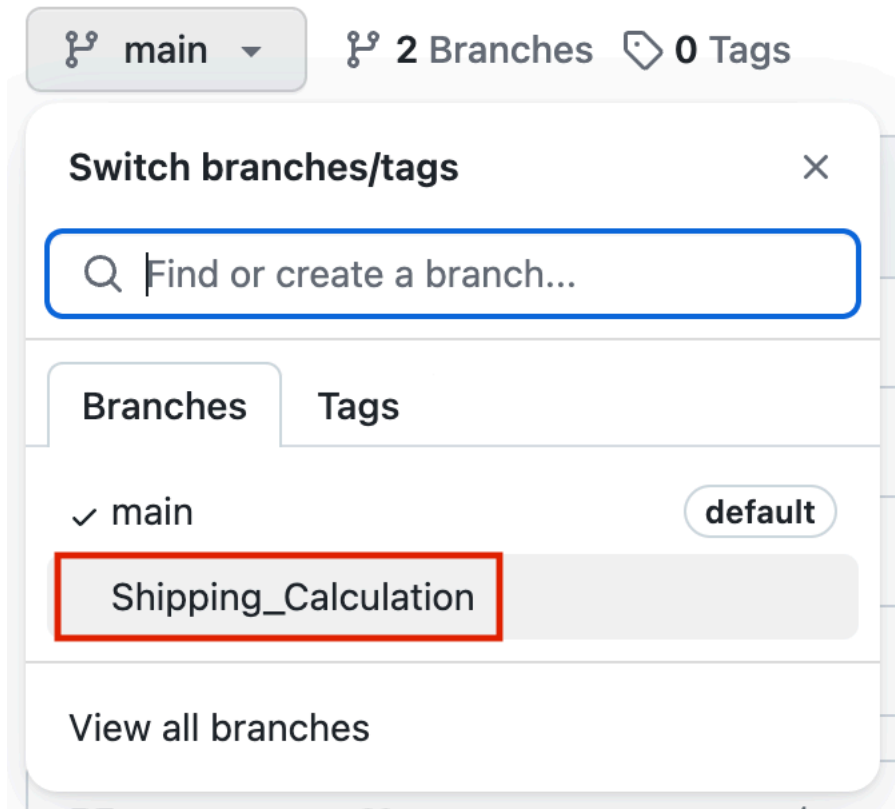
 main ▼

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 screenshot shows a code editor interface for a file named `Shipping_Cost_Calculator.py` in the `Shipping_Calculation` branch. The code is a Python script that calculates shipping costs based on package weight and shipping rate. A 'Commit changes' dialog box is open, allowing the user to commit the changes. The dialog box has a 'Commit message' field with the text 'Create Shipping_Cost_Calculator.py' and an 'Extended description' field. Two options are available for committing: 'Commit directly to the Shipping_Calculation branch' (selected) and 'Create a new branch for this commit and start a pull request'. The 'Commit changes' button is highlighted with a red box.

```
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 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.

<> Code Issues **Pull requests** Actions Projects Wiki Security

Label issues and pull requests for new contributors

Now, GitHub will help potential first-time contributors [discover issues](#) labeled with **good first issue**


 **Shipping_Calculation** had recent pushes 1 minute ago

Compare

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 to, you can also [compare ac](#)



base: main ▾

←
...

compare: Shipping_Calculation ▾

✓ **Able to merge.** These branches can be automa



Add a title

Merge Shipping_Cost_Calculator.py to the main branch

Add a description

Write

Preview

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🔍≡

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 or 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.



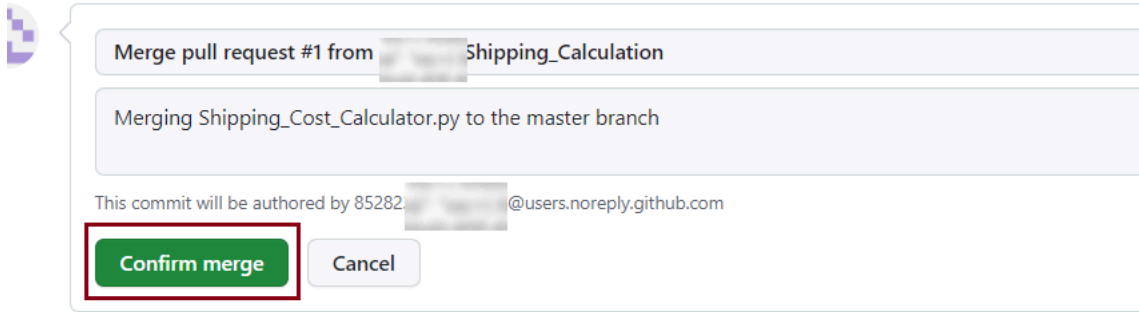
This branch has no conflicts with the base branch

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:



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

Merge Shipping_Cost_Calculator.py to the main bran

 Mergedlauvshree merged 1 commit into `main` from `Shipping_Calculation`  now

Conversation 0



Commits 1




Checks 0





Files changed 1


**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

 t

 Add

 **lauvshree** Merge pull request [#1](#) from lauvshree/Shipping_Calculation  de4a353 · 3 min

 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)

Nikesh Kumar

K Sundararajan



Skills Network