

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.

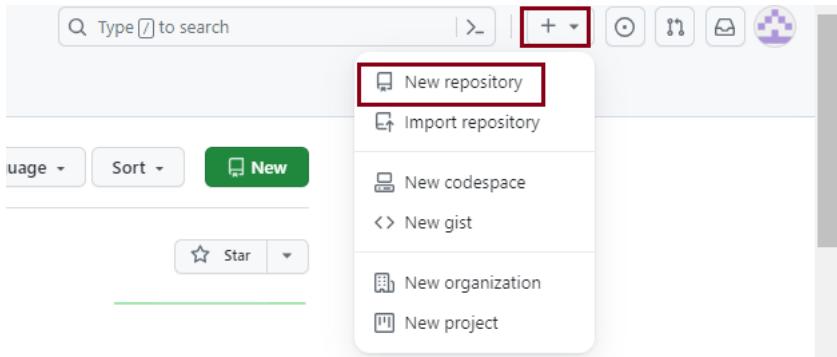
Objectives

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**.

The screenshot shows the 'Create repository' form. It includes fields for 'Owner' (a dropdown menu), 'Repository name' (a text input field containing 'LogisticsShippingRates' which is highlighted with a red box), and 'Description' (a text area with placeholder text 'Great repository names are short and memorable. How about potential-octo-potato?'). Below these are sections for 'Configuration': 'Choose visibility' (set to 'Public'), 'Start with a template' (set to 'No template'), 'Add README' (switch is 'On' and highlighted with a red box), 'Add .gitignore' (set to 'No .gitignore'), and 'Add license' (set to 'Apache License 2.0' and highlighted with a red box). At the bottom is a large green 'Create repository' button, which is also highlighted with a red box.

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

The screenshot shows a GitHub repository named 'LogisticsShippingRates'. The repository is public and has one branch ('main') and no tags. It contains three files: 'LICENSE' and 'README.md' (both initial commits) and a README file with an Apache-2.0 license. The README file content is as follows:

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.

The screenshot shows the GitHub README editor for the 'LogisticsShippingRates' repository. The file content is currently empty, showing only the title '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

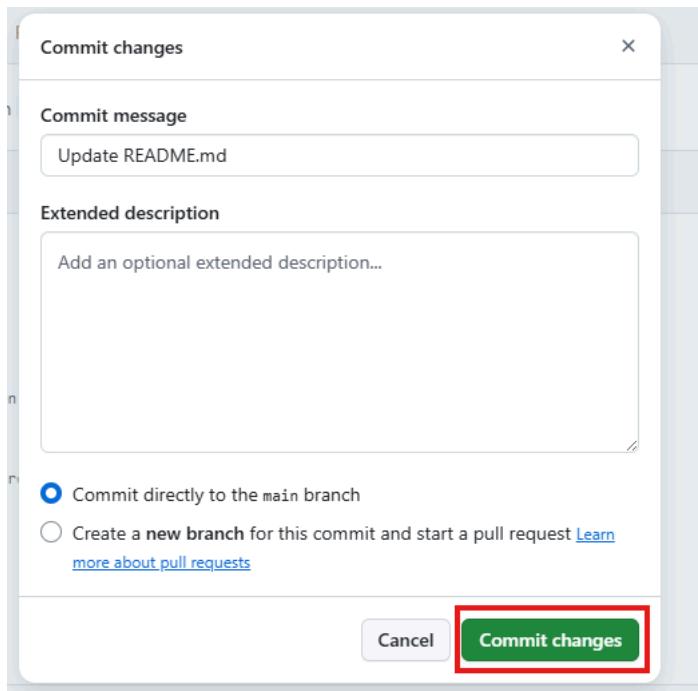
Code Issues Pull requests Actions Projects Wiki Security Insights Settings

LogisticsShippingRates / README.md in main

Edit Preview

```
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:

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

LogisticsShippingRates / README.md in main

Pin Unwatch 1 Fork

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**.

A screenshot of a GitHub repository page. At the top, there are buttons for 'Go to file', 'Add file', and 'Code'. The 'Add file' button has a red box around it. A dropdown menu is open, showing 'Create new file' (which is highlighted with a blue box) and 'Upload files'. Below the menu, there's a list of commits: 'Initial commit' (18 minutes ago) and 'Update README.md' (4 minutes ago). The 'README.md' commit has a small green icon next to it.

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.

A screenshot of a GitHub file creation dialog. The path 'LogisticsShippingRates / CODE_OF_CONDUCT' is shown. The 'Choose a code of conduct template' button is highlighted with a red box. Below the input field, there's a note: '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.

A screenshot of a GitHub file creation dialog. The path 'LogisticsShippingRates / CODE_OF_CONDUCT' is shown. A confirmation dialog from 'github.com says' is overlaid, asking 'You have unsaved changes. Do you want to discard them?'. The 'OK' button is highlighted with a red box.

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

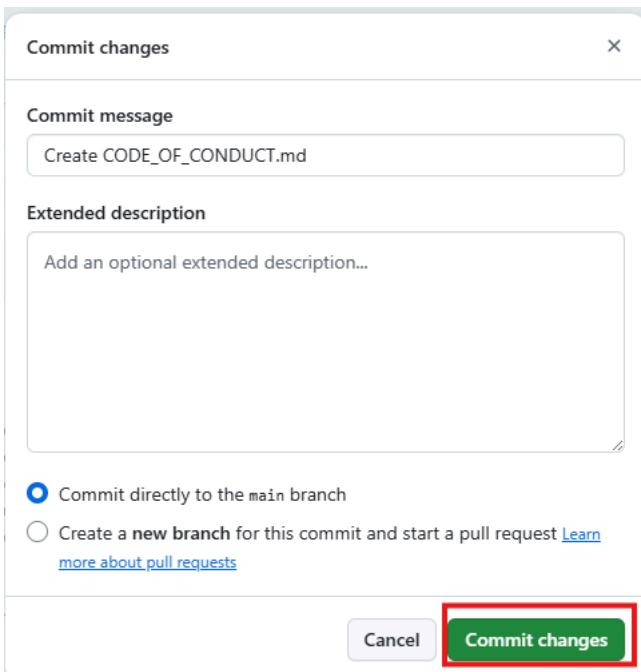
Edit Preview Choose a code of conduct template

```
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

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:

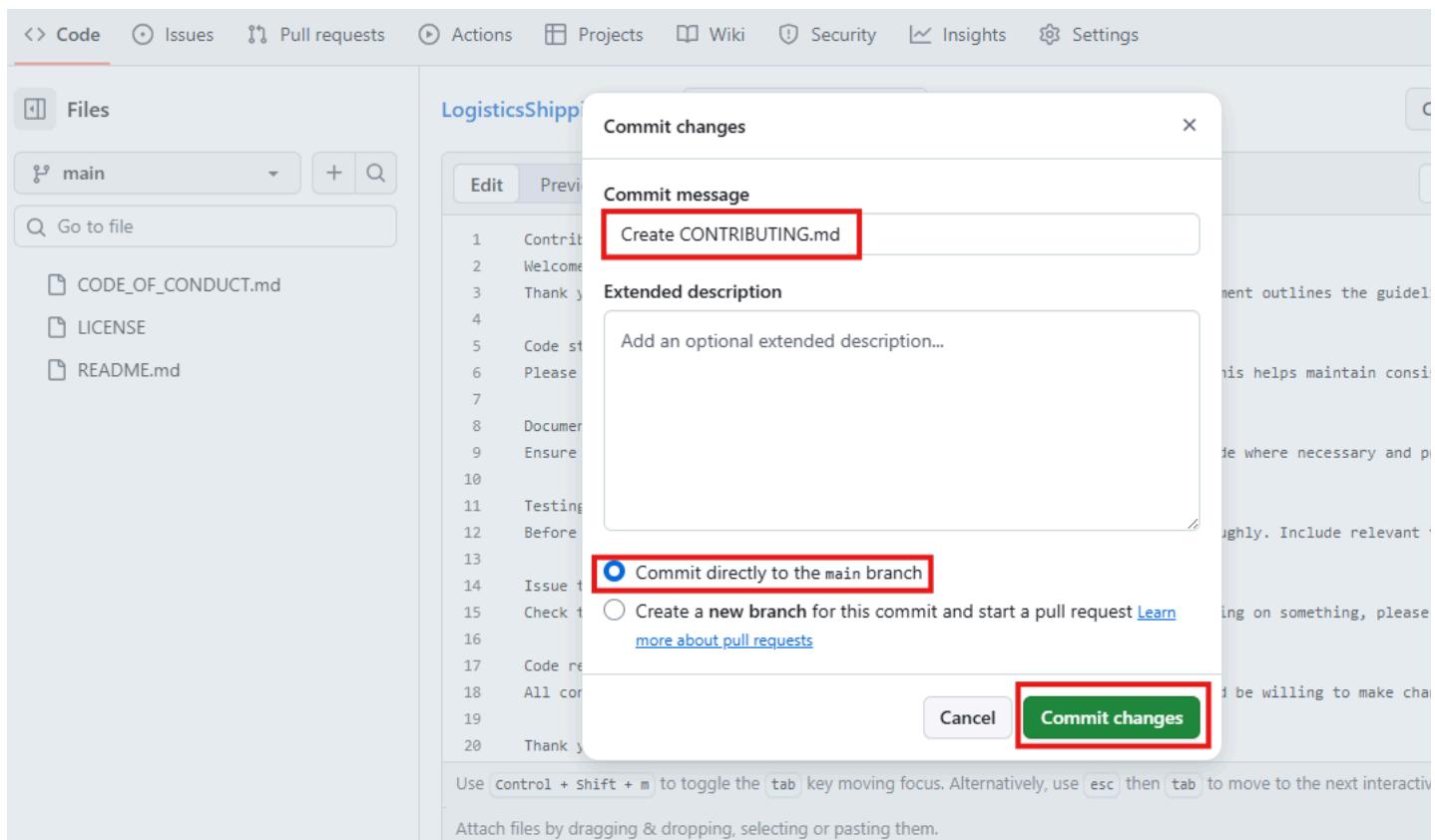
1. Create a new file in the repository's root directory and name it **CONTRIBUTING.md**.
2. Inside the file, include the following information:

```

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

```

3. Commit this file to your repository.



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

The GitHub repository 'LogisticsShippingRates' is shown. The 'Code' tab is highlighted with a red box. The repository details are: main branch, 1 branch, 0 tags. The file tree shows 'Create CONTRIBUTING.md' (highlighted with a red box), 'CODE_OF_CONDUCT.md', 'LICENSE', and 'README.md'. The 'CONTRIBUTING.md' file is described as 'Create CONTRIBUTING.md'.

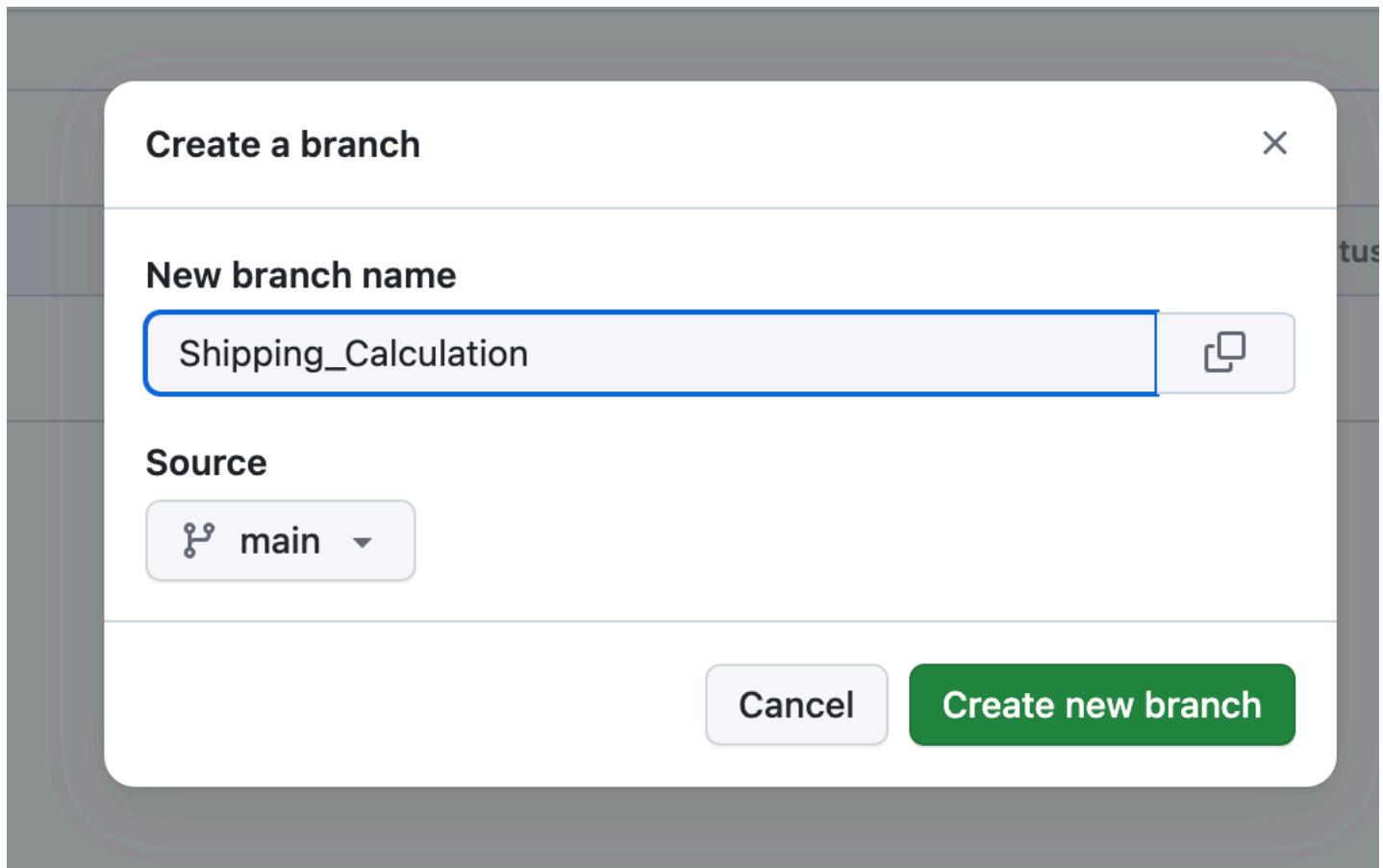
Your project now contains Contribution Guidelines as well.

Task 5: Create a new branch.

1. Click on branch in your repository.

The GitHub repository 'LogisticsShippingRates' is shown. The 'Code' tab is highlighted with a red box. The repository details are: main branch, 1 Branch, 0 Tags. A search bar at the top right contains 't'.

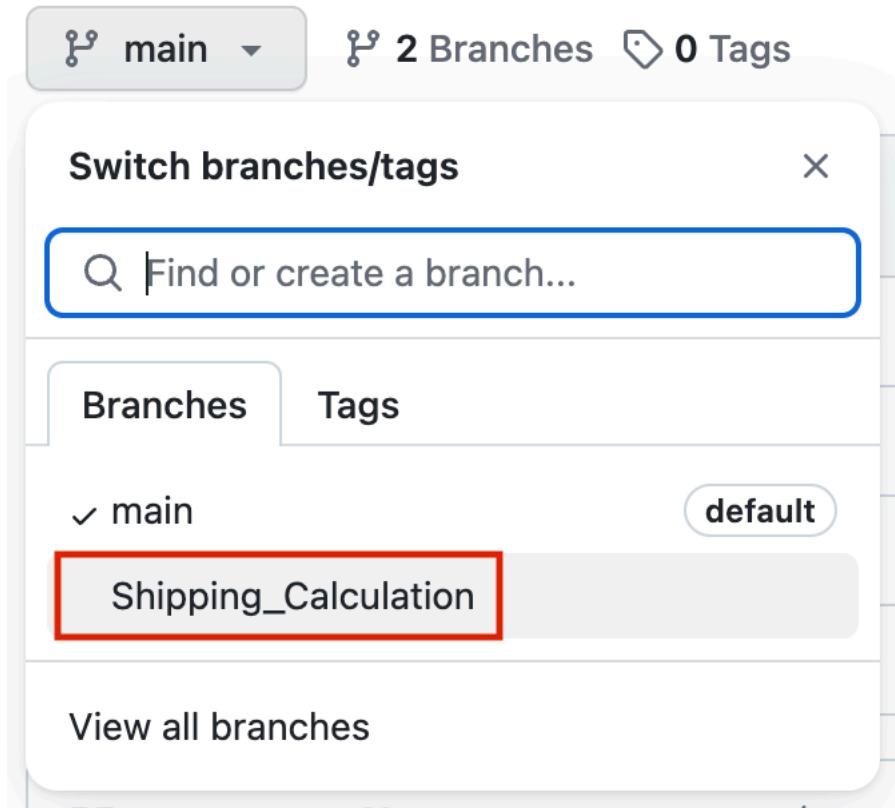
2. Now, click on New Branch and enter the branch name as Shipping_Calculation, then click Create New Branch



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`.

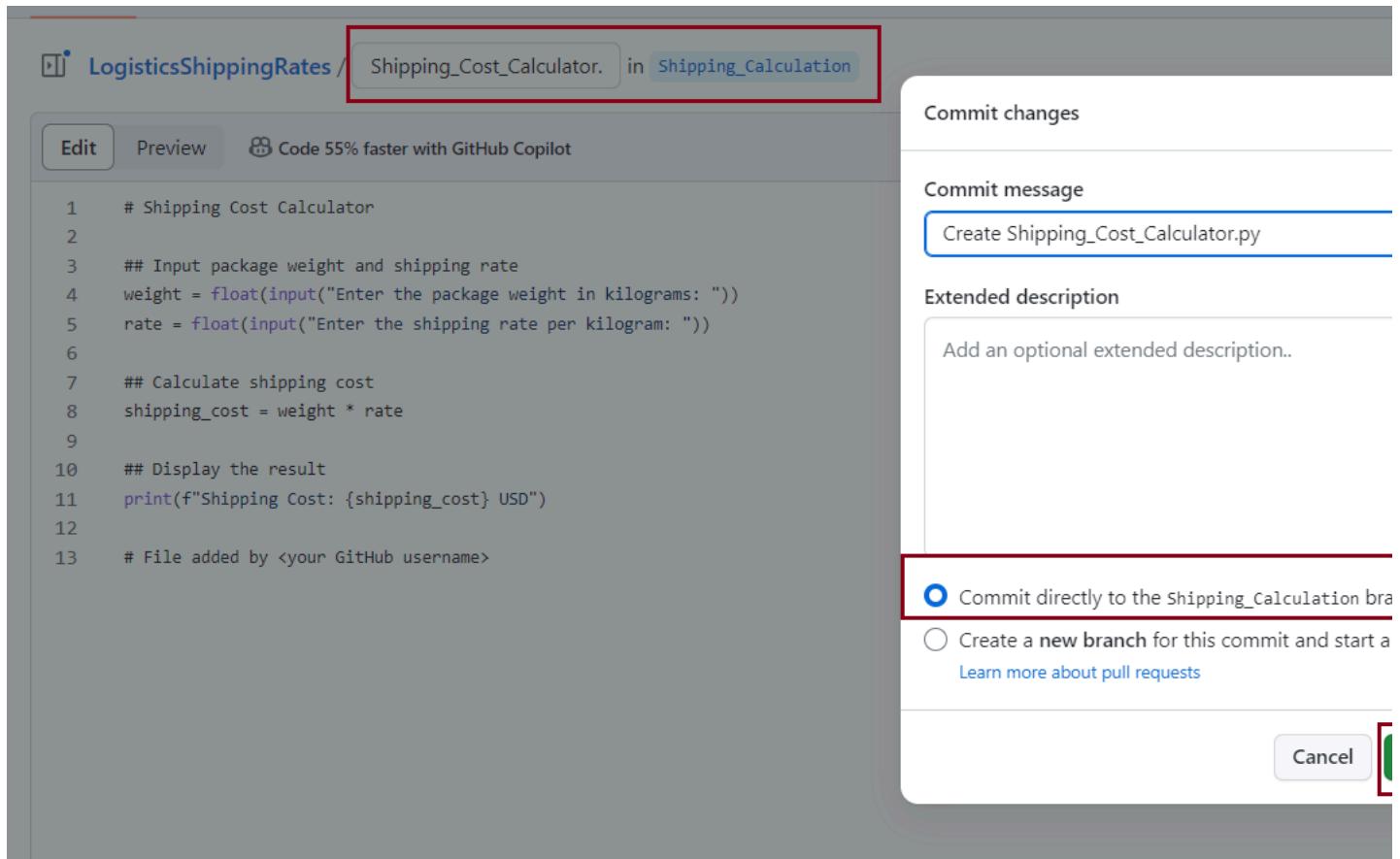
3. Add the following code in the new file:

```

# 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.

<> CodeIssuesPull requestsActionsProjects...

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

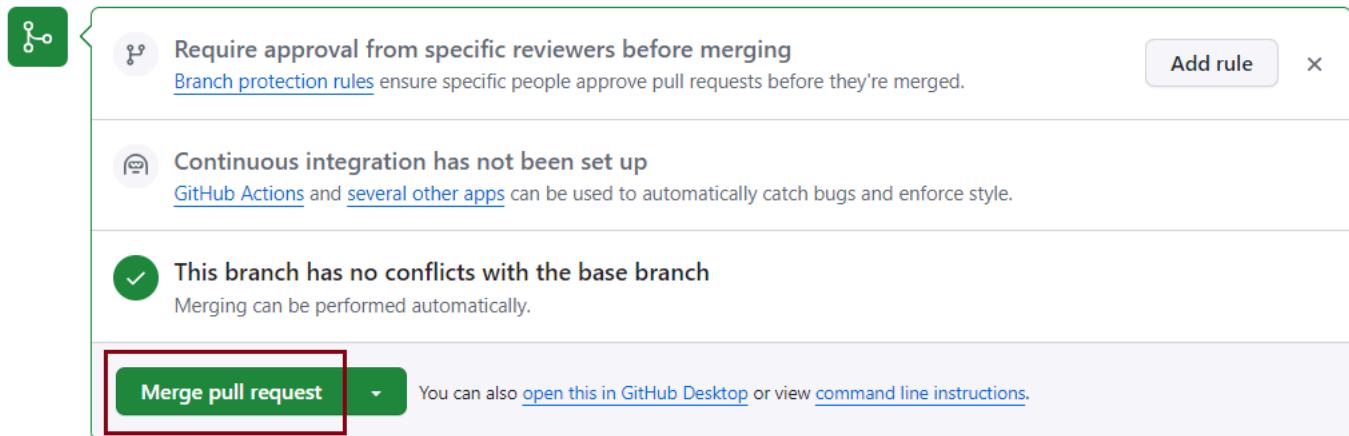
Add your description here...

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 | [LogisticsShippingRates](#)



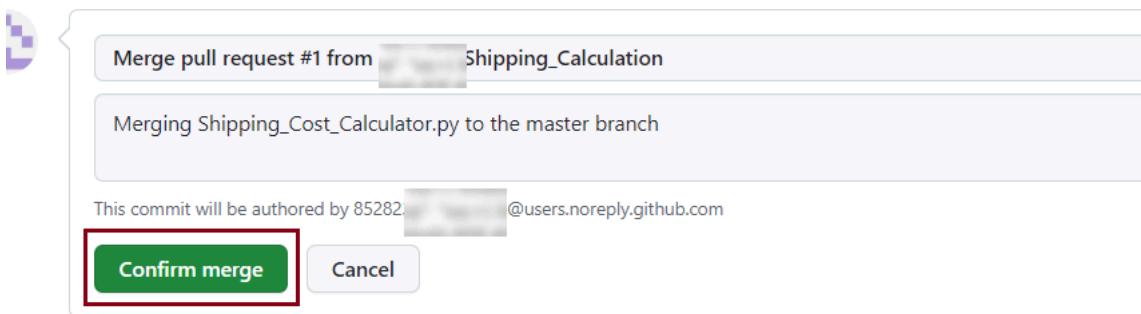
The screenshot shows the 'Branch protection rules' section for a repository. It includes the following items:

- Require approval from specific reviewers before merging**: A note stating that Branch protection rules ensure specific people approve pull requests before they're merged. Includes a link to 'Add rule' and an 'X' button.
- Continuous integration has not been set up**: A note stating that 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**: A note stating that Merging can be performed automatically.

A red box highlights the '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 'Merge pull request #1 from' dialog. It includes the following information:

- Merge pull request #1 from [Shipping_Calculation](#)
- Merging Shipping_Cost_Calculator.py to the master branch
- This commit will be authored by 85282 [REDACTED]@users.noreply.github.com
- Confirm merge** (button highlighted with a red box)
- Cancel**

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

Merge Shipping_Cost_Calculator.py tc

Merged

lauvshree 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.

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Skills Network