

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.

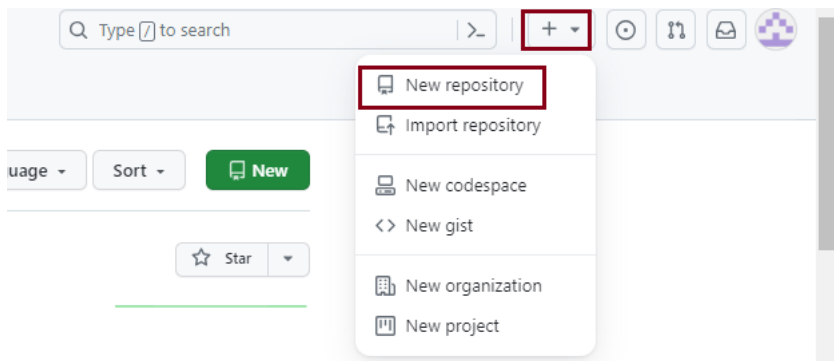
Objectives

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. 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

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

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 contains initial commits for "LICENSE" and "README.md" files. The README file is displayed, showing the repository name and a link icon.

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.

commit

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

LogisticsShippingRates

2. Add the following information to the file:

```
1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. 8
9. 9
10. 10
11. 11
12. 12
13. 13
14. 14
15. 15
16. 16
17. 17
18. 18
19. 19

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.
18. Licensing:
19. Contributions are licensed.
```

Copied!

3. Now click on Commit changes

LogisticsShippingRates / README.md in master

Edit Preview Code 55% faster with GitHub Copilot

```
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
18 Licensing:
19 Contributions 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

Commit changes

Commit message

Update README.md

Extended description

Add an optional extended description..

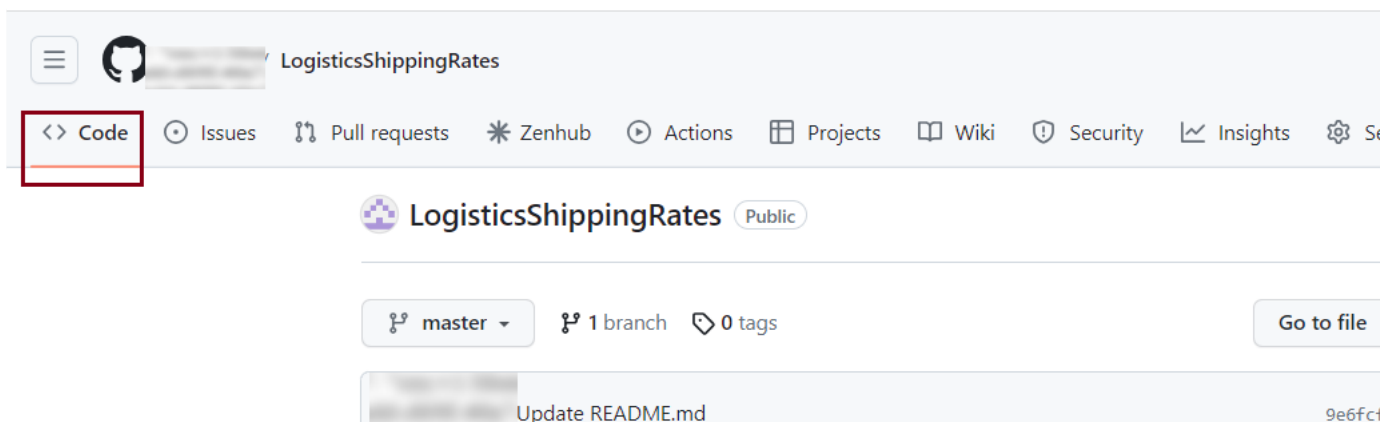
☒ Commit directly to the master branch

☐ 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:

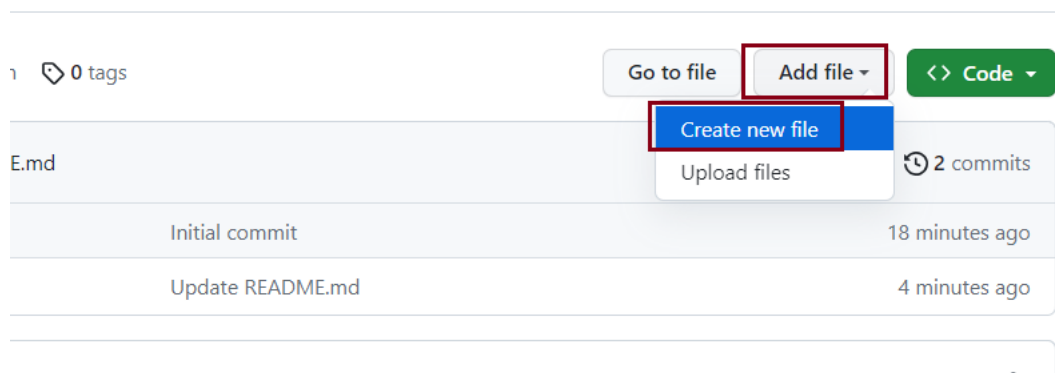


Task 3: Add a code of conduct.

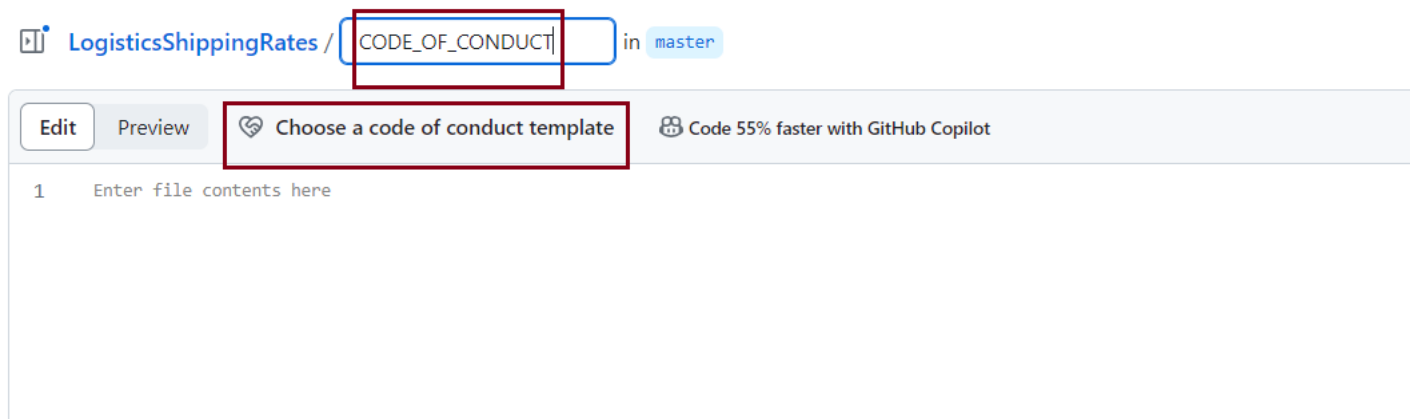
A code of conduct helps set ground rules for the behavior of your project's participants. It defines standards for how to engage in a community.

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

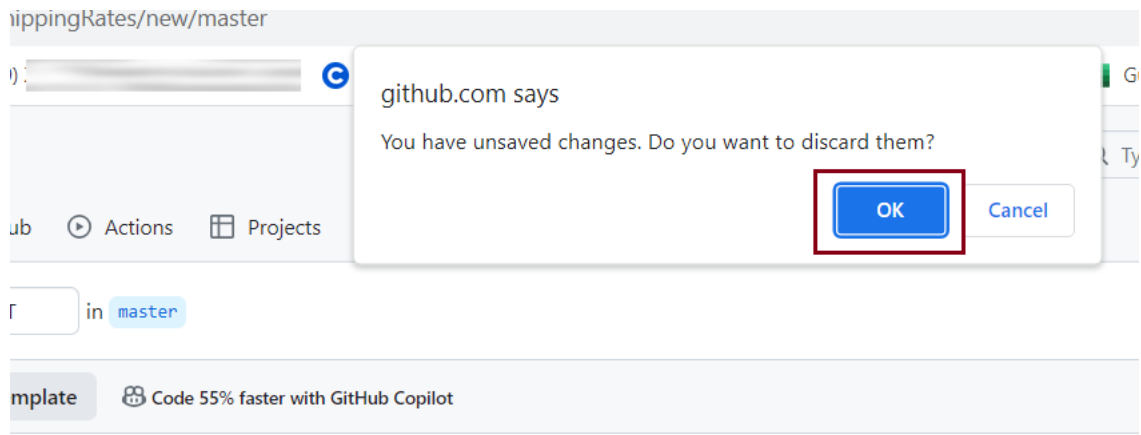
1. To create a new file click on **Add file** and then Create New File.



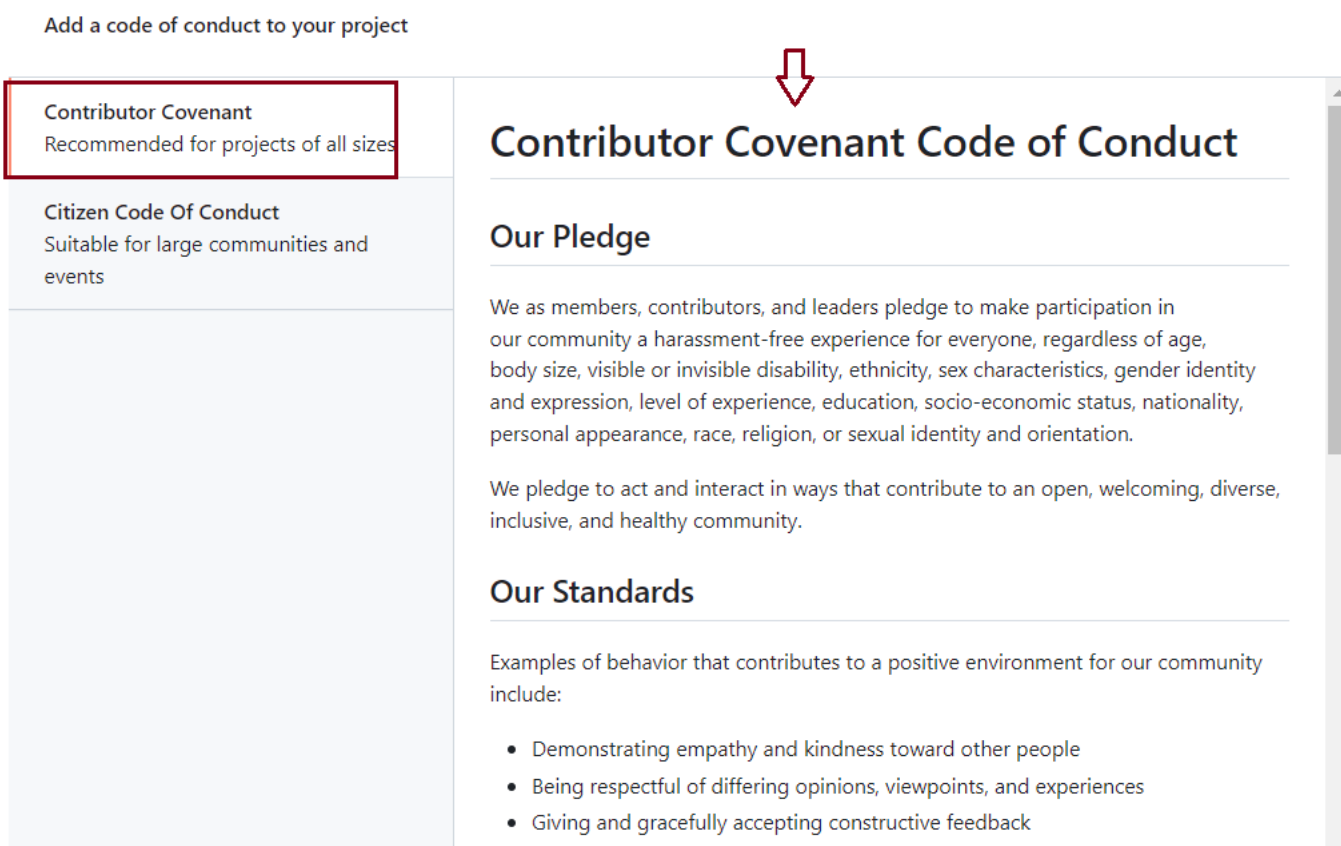
2. Add a new file named `CODE_OF_CONDUCT.md` to the root folder of the repository. The **Choose a code of conduct template** button is displayed.



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

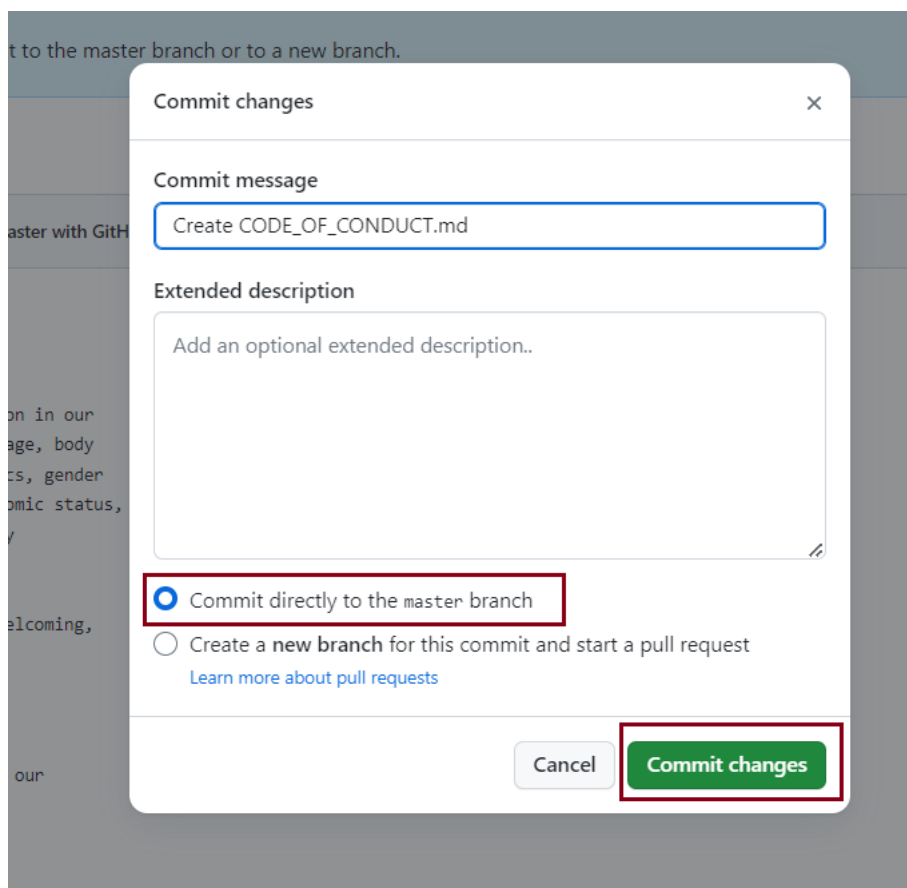


Code 55% faster with GitHub Copilot

```
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`.



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.

 / LogisticsShippingRates

CodeIssuesPull requestsZenhubActionsProjectsWikiSecurityInsightsSettings

LogisticsShippingRatesPublic

master1 branch0 tagsGo to fileAdd file

Create CODE_OF_CONDUCT.md4ee9f6

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

README.md

Please consider the below factors while contributing

Code Style: Maintain a consistent code style for readability

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:

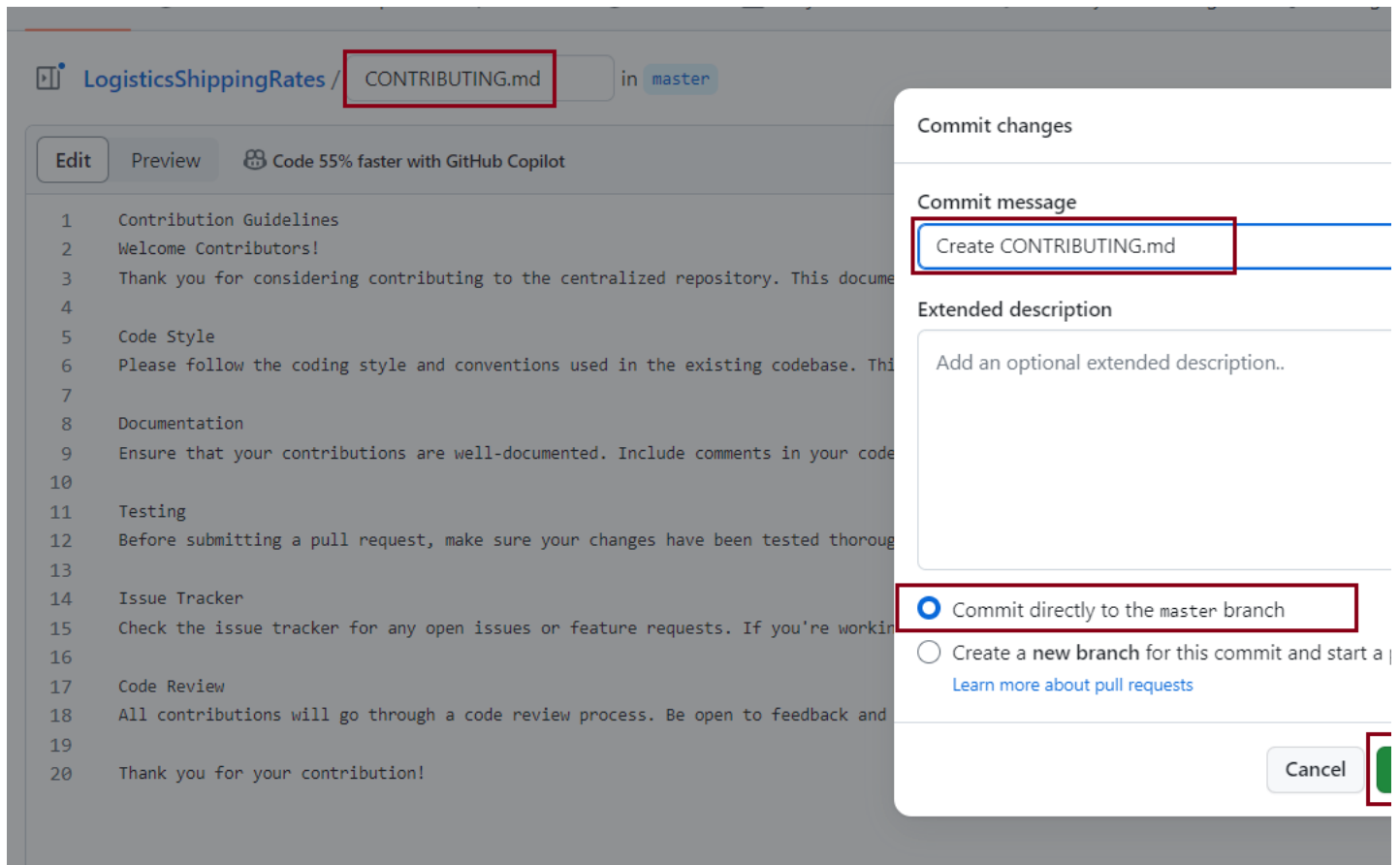
- 1. Create a new file in the repository's root directory and name it CONTRIBUTING.md.
- 2. Inside the file, include the following information:

```
1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. 8
9. 9
10. 10
11. 11
12. 12
13. 13
14. 14
15. 15
16. 16
17. 17
18. 18
19. 19
20. 20

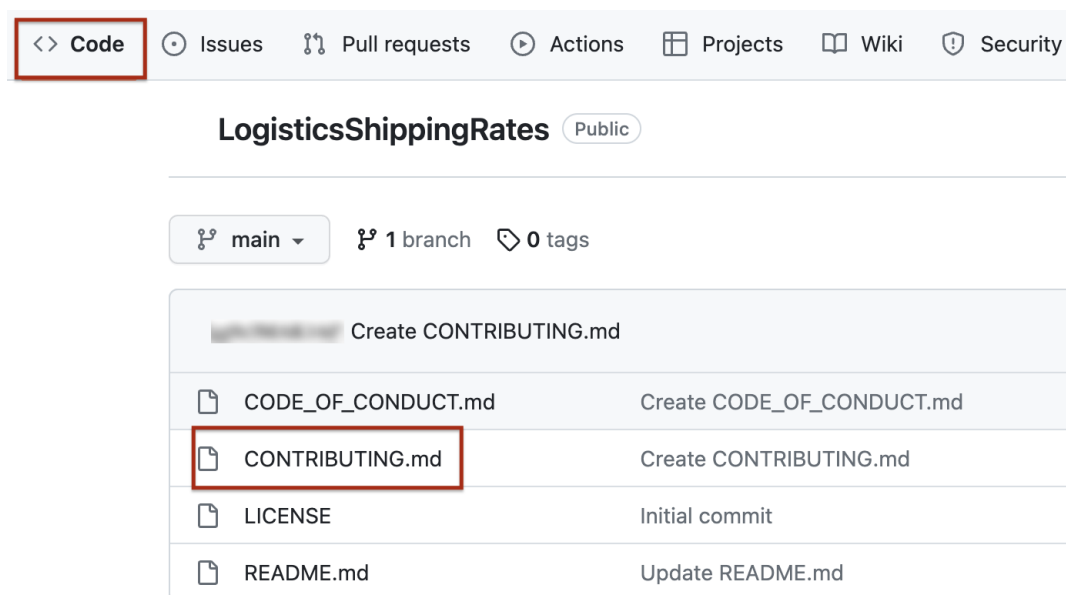
1. Contribution guidelines
2. Welcome Contributors!
3. Thank you for considering contributing to the centralized repository. This document outlines the guidelines for contributing to the development
4.
5. Code style
6. Please follow the coding style and conventions used in the existing codebase. This helps maintain consistency across the project.
7.
8. Documentation
9. Ensure that your contributions are well-documented. Include comments in your code where necessary and provide a clear and concise description of
10.
11. Testing
12. Before submitting a pull request, make sure your changes have been tested thoroughly. Include relevant test cases and ensure that existing tests
13.
14. Issue tracker
15. 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.
16.
17. Code review
18. All contributions will go through a code review process. Be open to feedback and be willing to make changes if necessary. Code reviews help maini
19.
20. Thank you for your contribution!
```

Copied!

- 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.

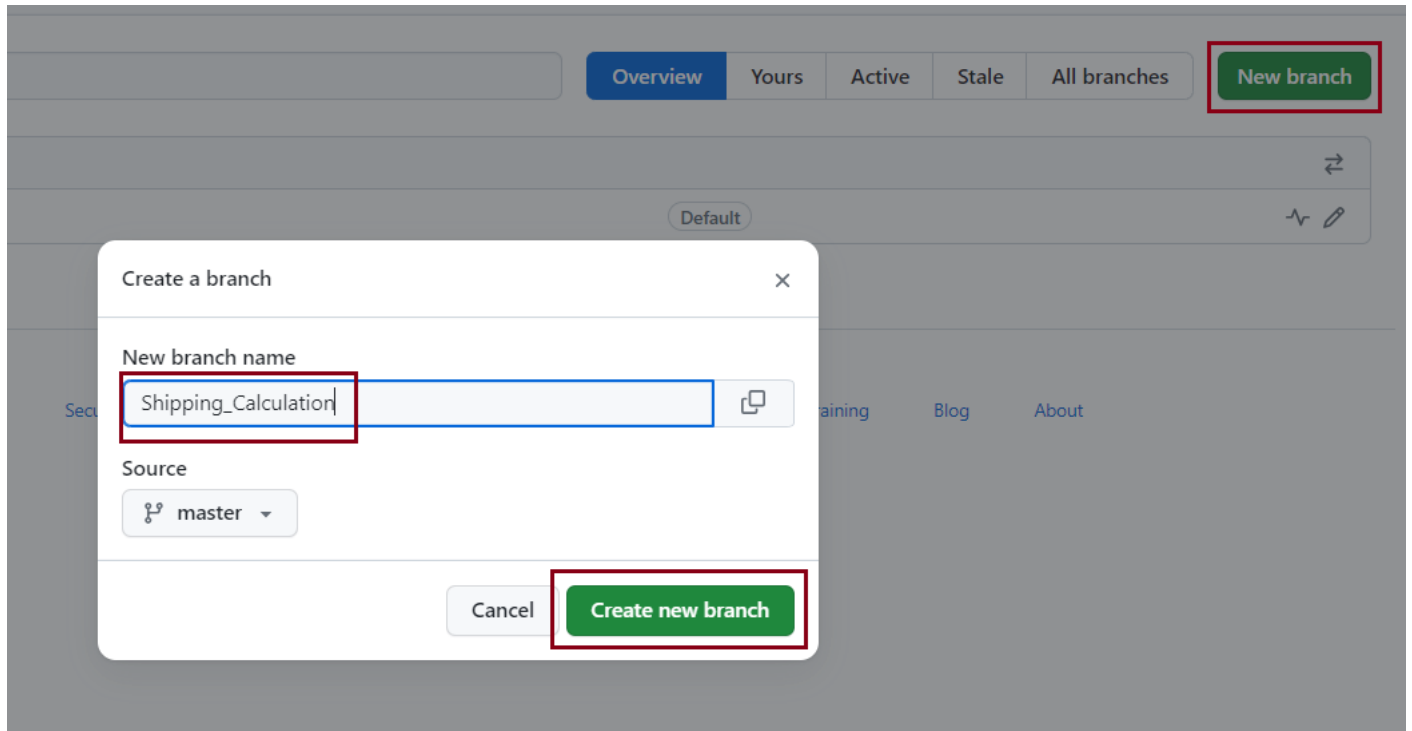
Task 5: Create a new branch.

1. Click on branch in your repository.

LogisticsShippingRates Public

master 1 branch 0 tags

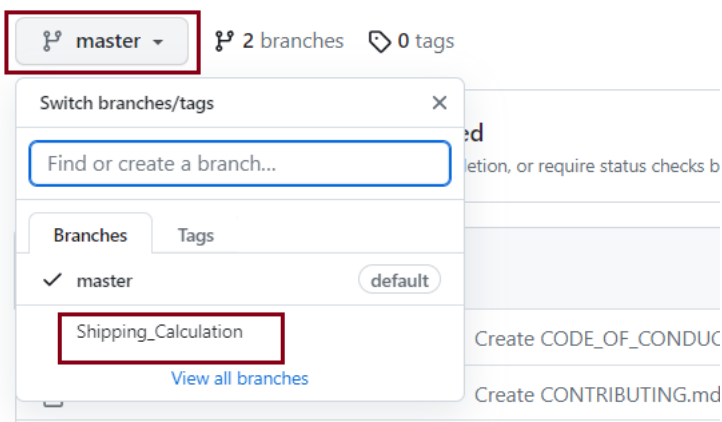
2. Now, click on New Branch and enter the branch name as Shipping_Calculation, then click Create New Branch



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:

```
1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
```

```

8. 8
9. 9
10. 10
11. 11

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")

```

Copied!

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

The screenshot shows the GitHub web interface. At the top, the breadcrumb navigation shows 'LogisticsShippingRates / Shipping_Cost_Calculator. in Shipping_Calculation'. Below this, there are tabs for 'Edit', 'Preview', and a GitHub Copilot icon. The main area displays the Python code for the shipping cost calculator. On the right side, a 'Commit changes' dialog is open. It has a 'Commit message' field with the text 'Create Shipping_Cost_Calculator.py' and an 'Extended description' field with the placeholder text 'Add an optional extended description..'. At the bottom of the dialog, there are two radio button options: 'Commit directly to the Shipping_Calculation branch' (which is selected) and 'Create a new branch for this commit and start a pull request'. A 'Cancel' button is located at the bottom right of the dialog.

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](#)

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 to, you can also [compare across forks](#). [Learn more about diff](#)



base: master



compare: Shipping_Calculation

✓ Able to merge. These branches can be automatically merged.



Add a title

Merging Shipping_Cost_Calculator.py to the master branch

Add a description

Write

Preview

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Add your description here...

Quote


Create pull request


Remember, contributions to this repository should follow its [contributing guidelines](#) and [code of conduct](#).


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](#).



**Require approval from specific reviewers before merging**
[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.

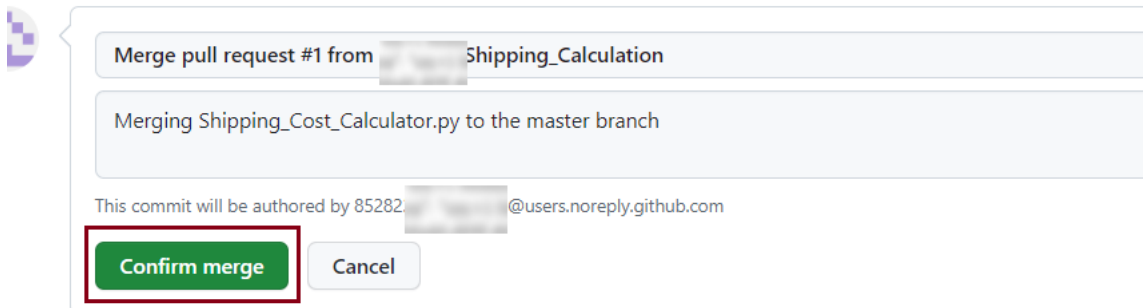
**This branch has no conflicts with the base branch**
Merging can be performed automatically.

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](#)

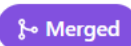

Merging `Shipping_Cost_Calculator.py` to the master branch

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.

Merging `Shipping_Cost_Calculator.py` to the master branch #1


 **Merged** [merged 1 commit into master from Shipping_Calculation](#)  now

Conversation 0

Commits 1


Checks 0

Files changed 1

 commented 3 minutes ago Owner ...

No description provided.

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

 master ▾

 2 branches

 0 tags

Go to file

Add file ▾

<> Code ▾


Your master branch isn't protected






Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#)

Protect this branch

×


Merge pull request #1 from  /Shipping_Calculation ...

0a5ba12 1 minute ago ⌚ 6 commits

 CODE_OF_CONDUCT.md	Create CODE_OF_CONDUCT.md	5 hours ago
 CONTRIBUTING.md	Create CONTRIBUTING.md	33 minutes ago
 LICENSE	Initial commit	6 hours ago
 README.md	Update README.md	5 hours ago
 Shipping_Cost_Calculator.py	Create Shipping_Cost_Calculator.py	7 minutes ago

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