Final Project: Overview and Grading Criteria

Estimated time needed: 15 minutes

Now that you are equipped with the knowledge and skills to work with GitHub UI and Git CLI, you will use these skills to create an open source project in Git, make changes to that project and make it available to the community. You will fork a GitHub repository, clone that repository to your local system, make changes to the local repository, commit the changes locally, push it back to your GitHub fork, and create a pull request to add your update to the original repository. This final assignment project is split into two parts.

Part 1 - GitHub UI

You recently got hired as a developer in a micro-finance startup with a mission to empower and provide opportunities to low income individuals. The core team currently uses Subversion (SVN) for managing code. They want to slowly move their code to Git. You are asked to host their sample code to calculate simple interest on GitHub in a new repository as the first step in this journey. You will not only host the script, but also follow best practices introduced in this course and create supporting documents for the open source project including code of conduct, and contributing guidelines. Additionally, the repository should be available to the community under the Apache License 2.0.

Part 2 - Git CLI

Congratulations on starting the journey with your company by creating an open source Simple Interest Calculator bash script on GitHub. Your changes have been accepted and merged and the company has created a new global repository for the teams to collaborate. Other developers have contributed to this repository over time. Your team has found a mistake in one of the markdown files. You are asked to fork this repository and fix the mistake by using Git CLI in the provided lab environment and open a pull request.

Grading Criteria – 20 marks total

The final assignment grading criteria for the two parts are as follows:

Part 1 GitHub UI (12 points)

- Task 1: Submit the URL of the repository (2 pts)
    - 0pts: No URL is submitted.
    - 1pt: Valid URL submitted but the URL is empty.
    - 2pts: Valid URL submitted and the URL has all the files as expected.
- Task 2: Apache 2.0 License file named LICENSE is present in the repository(2 pts)
    - 0 pts: The repository doesn't have license file.
    - 1 pt: The repository has a license file, which is different from the specification.
    - 2 pts: The repository has Apache 2.0 license file.
- Task 3: README.md file is present in the repository. (2 pts)
    - 0 pts: The repository doesn't have README file.
    - 1 pt: The repository has a README file, which is different from the specification or has no content.
    - 2 pts: The repository has README.md file as per specification.
- Task 4: CODE_OF_CONDUCT file is present in the repository. (2 pts)
    - 0 pts: The repository doesn't have CODE_OF_CONDUCT.md file.
    - 1 pt: The repository has a CODE_OF_CONDUCT file, which is different from the specification or has no content.
    - 2 pts: The repository has CODE_OF_CONDUCT file as per specification.
- Task 5: CONTRIBUTING.md file is present in the repository. (2 pts)
    - 0 pts: The repository doesn't have CONTRIBUTING.md file.
    - 1 pt: The repository has a CONTRIBUTING file, which is different from the specification or has no content.
    - 2 pts: The repository has CONTRIBUTING file as per specification.
- Task 6: The file `simple-interest.sh` is present in the repository. (2 pts)
    - 0 pts: The repository doesn't have `simple-interest.sh` file.
    - 1 pt: The repository has a `simple-interest.sh` file, which is different from the specification or has no content.
    - 2 pts: The repository has `simple-interest.sh` file as per specification.

Part 2 Git CLI (8 points)

- Task 1: Submit the URL of the forked repository. (2 pts)
    - 0 pts: The URL is not submitted or the link doesn't work
    - 1 pt: The URL is a valid link but the contents are not forked correctly.
    - 2 pts: The URL is a valid link and is the fork of the given repository with all the contents.
- Task 2: Submit the screenshot of the first merge. (2 pts)
    - 0 pts: The image is not submitted
    - 1 pt: The image submitted shows that the branch `bug-fix-typo` is merged onto `main` but the details are not fully correct.
    - 2 pts: The image shows that the current branch is main and changes to `README.md` file in `bug-fix-typo` have been merged to main.
- Task 3: Submit the URL of the pull request. (2 pts)
    - 0 pts: The URL is not submitted
    - 1 pt: The URL works but doesn't point to the pull request.
    - 2 pts: The URL works and reflects the pull requested which has been accepted.
- Task 4: Submit the URL of the `Branches` page displaying the branch names and their status in your repository. (2 pts)
    - 0 pts: The URL is not submitted

- 1 pt: The URL just shows the number of branches as 3 viz (main, bug-fix-typo and bug-fix-revert), but the details are not evident.
- 2 pts: The URL shows the branch names and the status.

Prework: Sign up for GitHub

Create a GitHub account, if you don't have one already.

Next Steps

Follow the instructions for each part of the lab. You will be prompted to note the URLs into file with an editor for later use in submission. You also have to take screenshot for one of the tasks and save the image as jpg or png. These URLs and images will be uploaded for peer review in the Final Submission section of the course. You can use any editor app to keep note of your URLs.

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