Lab: (Sourcetree) Pull Requests II

Estimated time: 25 minutes

Note: This lab assumes that you are using Sourcetree. If you would prefer to use a command line interface, there are separate instructions.

In this lab, you will:

- 1. Fork a remote repository.
- 2. Synchronize a forked repository using Bitbucket.
- 3. Create a multi-repository pull request.
- 4. Merge a multi-repository pull request.

1: Fork a remote repository.

- Create a remote repository that we will consider to be the "upstream" repository. Do this by logging into Bitbucket and creating a repository named projectj. You can have Bitbucket create the README commit if you would like.
- 2. If you didn't create commit above, create and commit a README.md file containing the text # PROJECTJ README # with a commit message of "Initial commit".
- 3. Fork your projectj repository. Do this by clicking the + and selecting Fork this repository. Name the fork projectjfork. After creating the fork, you should see projectjfork in your list of Bitbucket repositories.

Congratulations, you have forked a remote repository.

2: Synchronize a forked repository using Bitbucket.

- 1. In the upstream repository (projectj), update README.md and create a commit. You can do this directly in Bitbucket or from your local client, pushing the changes to projectj.
- 2. In Bitbucket, navigate to projectjfork.
- 3. Select the **Source** tab. View the Repository details in the upper right. You may need to click on the icon in the upper right (or press]) to expand the repository details, then click > to show the dropdown.
- 4. Click the Sync (1 commit behind) link. Accept the default merge message and click Sync .
- 5. Click the Commits link. Notice that a merge commit was created in your fork.

Congratulations, you have synchronized a repository using Bitbucket.

3: Create a multi-repository pull request.

- 1. Using Sourcetree, clone projectjfork to create a local repository for the forked repository.
- 2. Create a branch named feature1 off of the master branch. This will be the branch that is part of the pull request.
- 3. Create a commit on the feature1 branch containing a file named fileA.txt with the line "feature1" as the content of the file.
- 4. Push the feature1 branch to the remote projectjfork repository.

- 5. In Bitbucket, navigate to the projectjfork repository. Click on Commits and Branches to verify that your feature1 branch and commit are on the remote repository.
- 6. Click on Pull requests . Click Create pull request .
- 7. On the Create a pull request page, select feature1 on the left and master on the right. Modify the information if you would like and select Create pull request. You should see that your pull request was created.
 - Congratulations, you have created a multi-repository pull request.

4: Merge a multi-repository pull request.

- 1. In Bitbucket, navigate to <code>projectj</code> . This is the upstream repository. Click on <code>Pull requests</code> . You should see the pull request from your fork.
- 2. Click on the link to view the pull request.
- 3. Click the Merge button. Accept the default commit message and merge strategy (merge commit). Click Merge. You should see that the feature1 branch is now merged. Click on Commits and verify that the work of feature 1 is now in your commit graph.
- 4. In Bitbucket, navigate to the projectjfork repository. Select the **Source** tab. Because of the merge commit upstream, this repository is 2 commits behind. Click the <code>sync</code> button on the right (in <code>Repository details</code>). Accept the default commit message and click <code>sync</code>.
- 5. Because the work of the feature1 branch is merged, you can delete the feature1 branch label in the forked remote repository. You should find the feature1 branch under Branches > Merged branches.
- 6. In Sourcetree, delete the local projectjfork repository and create a new clone of the same name (you may need to delete the existing local folder first). View the commit graph and verify that the merge commit from upstream is present. Now all of your repositories should be synchronized.

Note: Deleting the local repository and recreating it using clone is a choice. Because we knew that all of our local work has been pushed to the remote repository, we can delete the local repository and start over using a clone. We are then assured that the remote and local repositories are synchronized.

7. You will not use the <code>projectj</code> or <code>projectjfork</code> repositories in future labs. You can delete them.

Congratulations, you have merged a multi-repository pull request and completed this lab.

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