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.

- 1. 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.
- 2. Use the Bitbucket interface to create the first commit of the projectj repository. Create and commit a README.md file containing the text "# PROJECTJ README #".
- 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 remote repositories.
 - Congratulations, you have forked a remote repository.

2: Synchronize a forked repository using Bitbucket.

- 1. Create a commit that updates README.md in the upstream repository (projectj). You can do this directly in Bitbucket or from your local client, pushing the changes to projectj.
- 2. In Bitbucket, navigate to projectjfork. Click on the Overview tab. (If you do no see an Overview tab, see below.) You should see a message: This fork is 1 commit behind (user)/projectj. Sync now. Because you made the commit on the upstream repository, your two remote repositories are not synchronized.

Don't see an Overview tab? Here is how to re-enable it:

i. Click on your user icon in the lower left window.

- ii. Click Bitbucket Settings > Integrations and Features > Labs.
- iii. Disable the "New source browser experience" features.
- iv. You should now be see an Overview tab when you navigate to a repository.
- 3. Click the **Sync now** link. Accept the default merge message.
- 4. Click the Commits link. Notice that a merge commit was created.
 - 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 "feature 1" as the content of the file.
- 4. Push the feature1 branch to the remote projectjfork repository.
- 5. In Bitbucket, navigate to the projectifork repository. Click on Commit and Branches to verify that your feature1 branch and commit are on the remote repository.
- 6. Click on Pull Requests. Click on the create a pull request link.
- 7. On the Create a pull request page, 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 projectj. This is the upstream repository. Click on Pull requests. 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. Because of the merge commit upstream, this repository is behind. Click the Sync now button. Accept the default commit message and click Sync.
- 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.
- 6. In Sourcetree, delete the local projectjfork repository and create a new clone of the same name. 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 projectj or projectjfork repositories in future labs. You can delete them.

Congratulations, you have merged a multi-repository pull request.

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