Assignment source

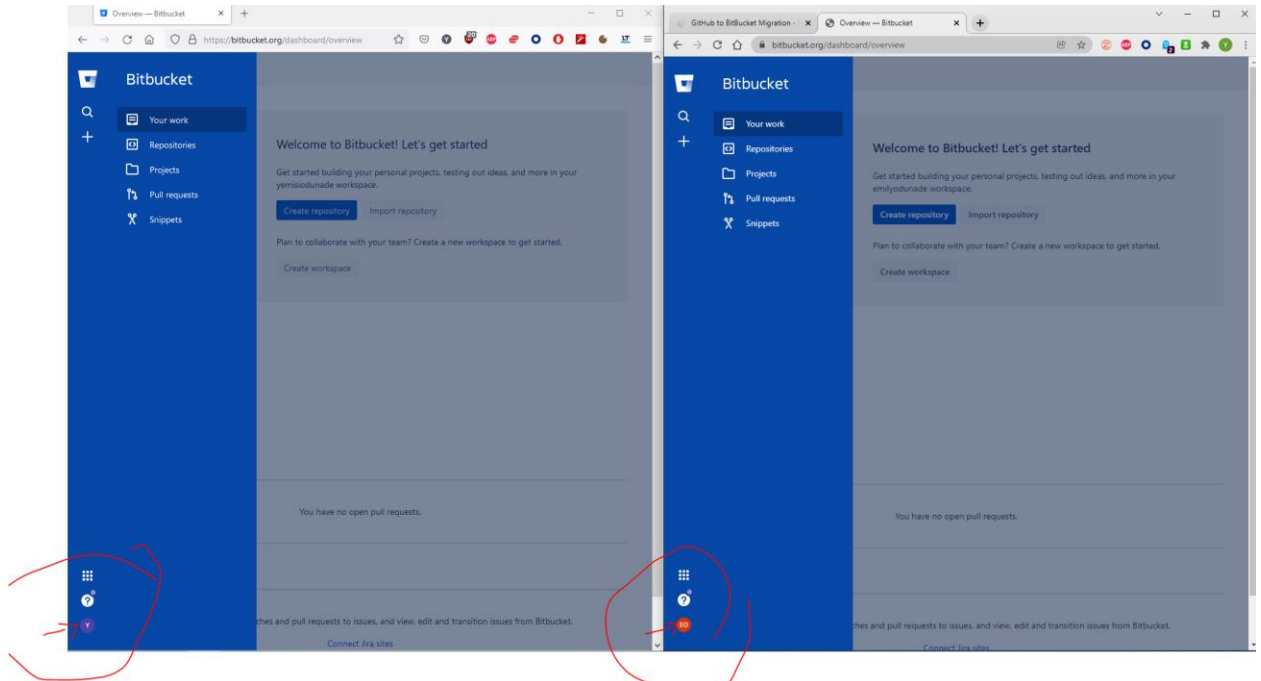https://devopsrealtime.com/github-to-bitbucket-migration/

Goal

Currently application code is staged into GitHub repository and the requirement is to migrate the code to Bit Bucket repository.

Pre-Requisites

1. GitHub Repo: https://github.com/dptrealtime/java-login-app.git
2. Create two Bitbucket accounts to follow the best practices (Developer1 & Developer2 accounts)

   `2 bitbucket accounts were created here`

3. Create private Bitbucket repository and add Developer1 and Developer2 as collaborators.

   `Create a blank repository on developer1's account. The bitbucket repo name should preferably be the same as the existing github repo name`

Added developer 2 as collaborator with write access

Yemisi / Valaxy_labs / java-login-app / Repository settings

User and group access

<div align="right">Add members</div>

Grant access to this repository by adding users and groups. You can find them by name if they already have workspace access. If not, type a full email address to add a new user. Learn more about granting access to repositories.

For a list of all users with access to any of your private repositories and to see which users count towards your bill, go to Users on plan.

Search 🔍	Permissions ⌄		
☐ Name		Permission	Actions
☐ **EO** emily odunade emily		Write ⌄	Remove

‹ **1** ›

Migration

1. Clone GitHub repository

   Cloned and renamed the downloaded working directory name
   ```
   git clone https://github.com/dptrealtime/java-login-app.git
   mv java-login-app/ java-login-app_original
   ```

2. Clone Bitbucket repository as Developer1
   ```
   git clone https://yemisiodunade@bitbucket.org/yemisiodunade/java-login-app.git
   ```

3. Migrate the code from GitHub repository (local master) to Bitbucket repository (local master)

   ```
   Deleted unneeded .git folder in original local repo and copied the
   code to the new bitbucket local working directory
   ```

   ```
   $ cd java-login-app_original/
   ```

```
$ rm -rf .git/
$ cp -r * ../java-login-app/.
```

4. Follow branching strategy and commit the code to "feature" branch of Bitbucket repository.
    ```
    In bitbucket working directory, created and checked out to
    feature branch. Committed the changes and pushed them to
    developer 1's bitbucket account

    $ cd java-login-app

    $ git checkout -b feature

    Switched to a new branch 'feature'

    $ git config user.name "developer1"

    $ git config user.email developer1@example.com
    $ git add . && git commit -am "commit #1 in feature branch"

    $ git remote -v
    origin  https://yemisiodunade@bitbucket.org/yemisiodunade/java-
    login-app.git (fetch)
    origin  https://yemisiodunade@bitbucket.org/yemisiodunade/java-
    login-app.git (push)

    $ git push origin feature

    Feature branch commit shown here
    ```
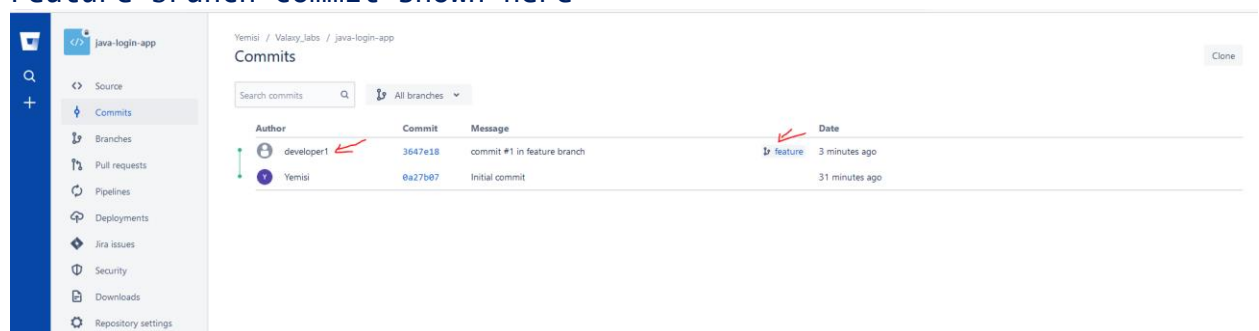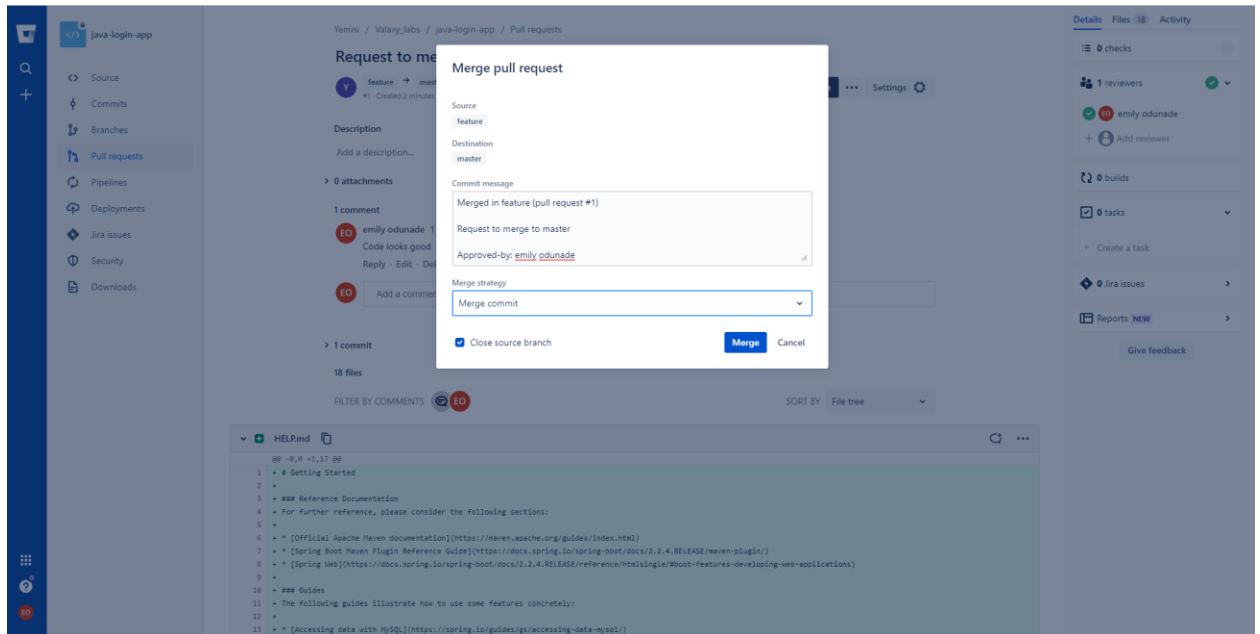

5. Raise Pull Request to merge the code from Feature branch to Master branch and add Developer2 as reviewer.

    ```
    Pull request raised by developer 1 is shown below
    ```

6. Login to Bitbucket as Developer2 then approve and merge the PR using "no fast forward" merge strategy.

Pull request shown in developer 2's account

Pull request was approved and merged using requested strategy

Verification

1. Verify that the code is now showing in the Bitbucket repo.

Note: Explore various other options to migrate the code from Github to Bitbucket and add the possibilities in the comments.

Migrated Code is shown in Bitbucket repo