

# Lesson 04 Demo 01

# **Working with Branches**

**Objective:** To understand how to create, manage, rename, and delete branches in GitHub using Git commands, enhancing your ability to organize and collaborate on code efficiently

Tools Required: Git

Prerequisites: Lesson 05 Demo 01

#### Steps to be followed:

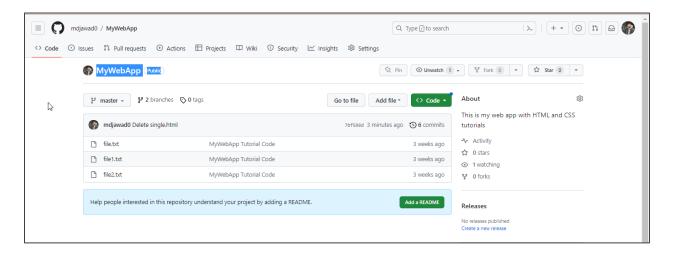
1. Create branches using GitHub

2. Work with branches using Git commands

3. Rename and delete branches

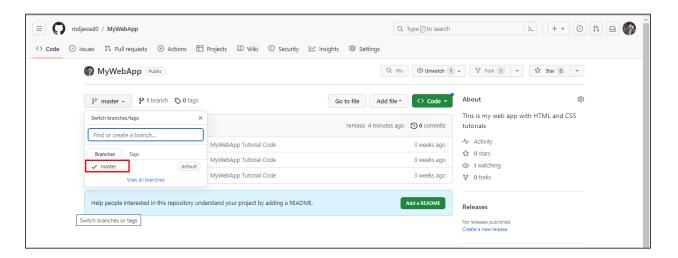
## Step 1: Create branches using GitHub

1.1 Open the GitHub repository and locate your project

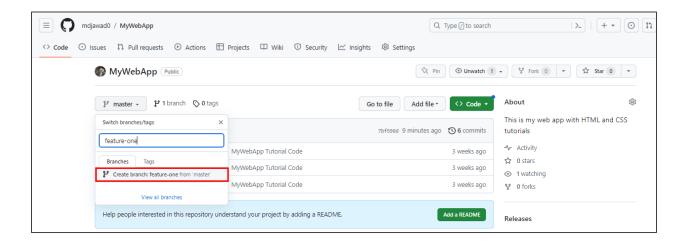




1.2 Verify that a branch called **master** already exists in the repository

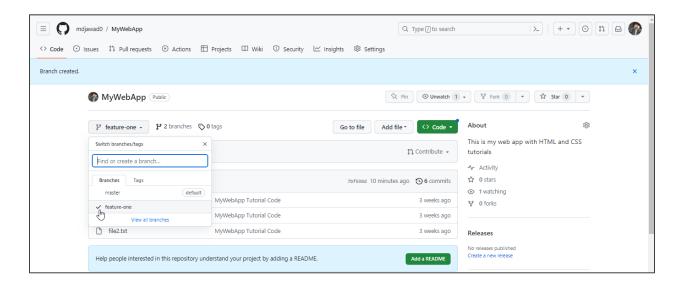


1.3 Create a new branch using the GitHub interface. Name the new branch as **feature-one** and click **Create**.



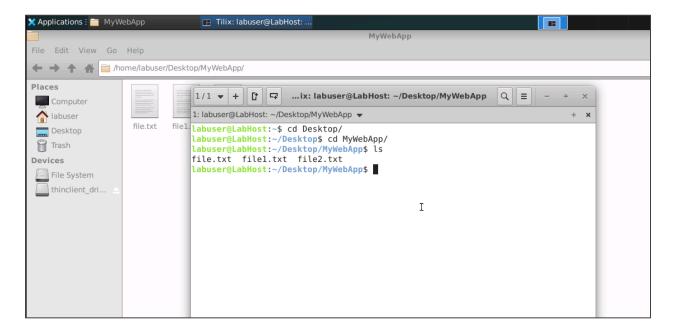


1.4 Verify the creation of the new branch



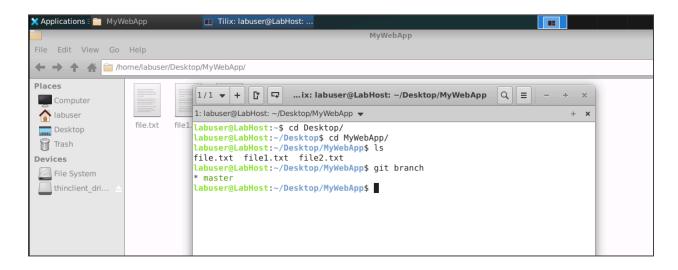
## Step 2: Work with branches using Git commands

2.1 Open the terminal and navigate to the local Git repository

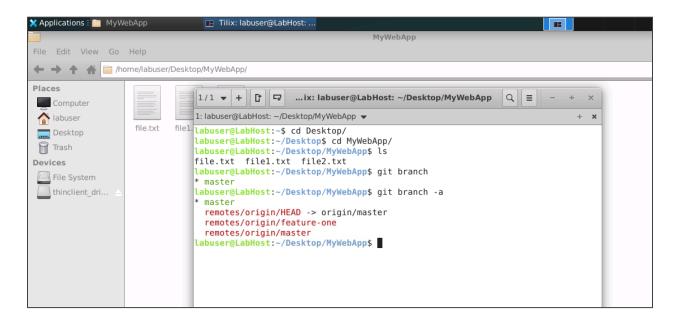




2.2 List all local branches using git branch

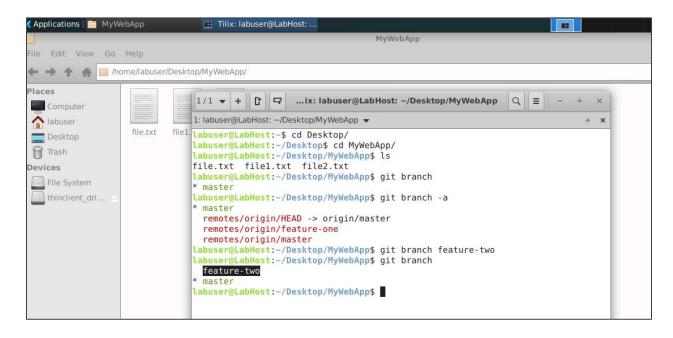


2.3 List all local and remote branches using git branch -a

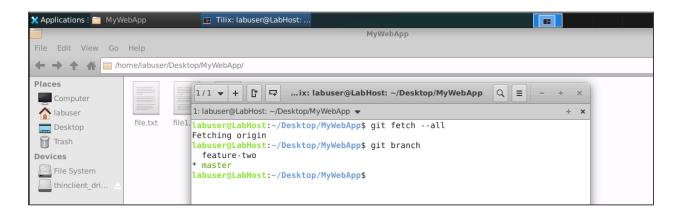




2.4 Create a new local branch using git branch <br/> spranch-name>

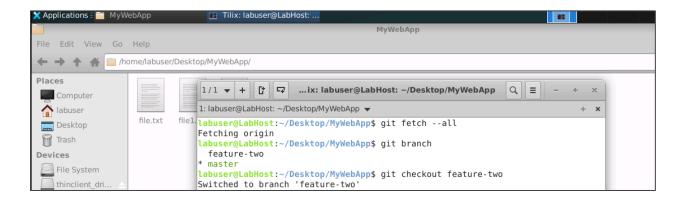


2.5 Sync local and remote branches using git fetch --all

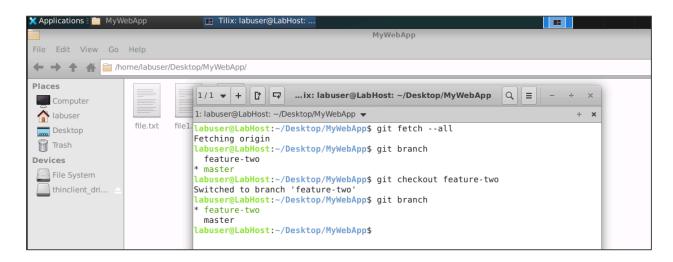




2.6 Switch to a specific branch using git checkout <br/> specific branch using



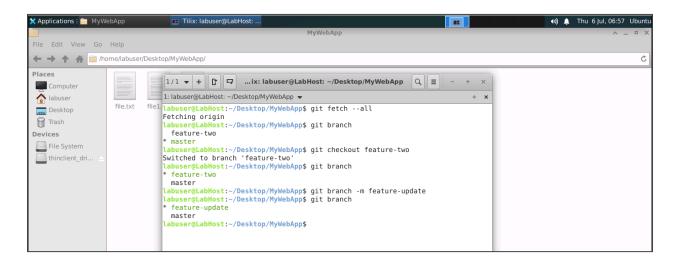
### 2.7 Verify the branch switch



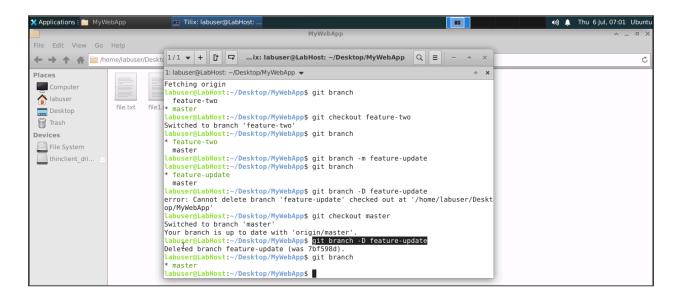


## **Step 3: Rename and delete branches**

3.1 Rename a branch using **git branch -m <new-name>**. Verify the branch rename.

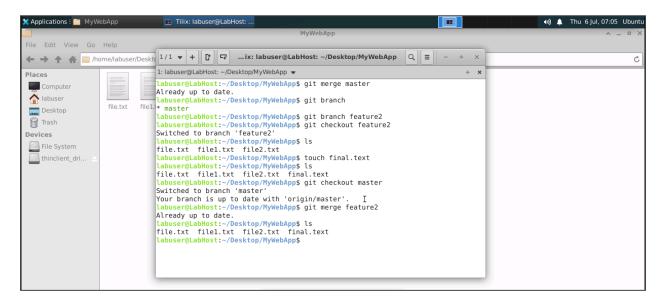


3.2 Delete a branch using git branch -D <br/>branch-name>. Verify the branch deletion.





3.3 To merge changes from a source branch, use git merge <source-branch>



By following these steps, you have learned how to effectively create, manage, rename, and delete branches in GitHub using Git commands, which will help you maintain a well-organized and efficient workflow in your projects.