

## Lesson 04 Demo 04

# **Creating a Branch in Git**

Objective: To create branch in GitHub to work on the features affecting the main

code

Tools required: Git and GitHub

Prerequisites: None

#### Steps to be followed:

1. Create a new GitHub repository

2. Clone the repository

3. List all the branches in your repository

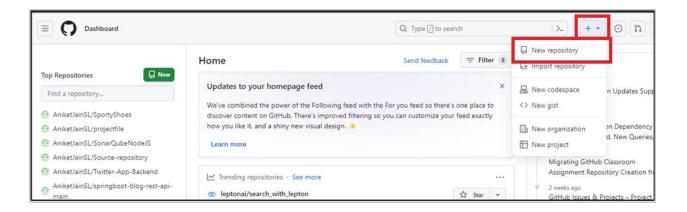
4. Create a new branch and verify its creation

5. Rename an existing branch

6. Delete the branch and verify its deletion

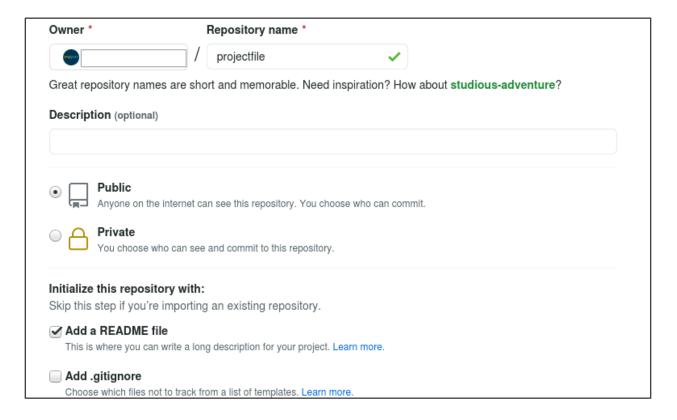
### Step 1: Create a new GitHub repository

**1.1** In your lab's browser, visit **github.com** and log in. Click the **+** icon in the upper-right corner, select **New repository**, and create a new repository.

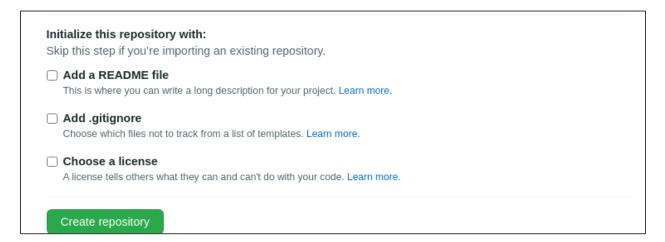




#### 1.2 Enter an arbitrary name for the repository file as 'projectfile'



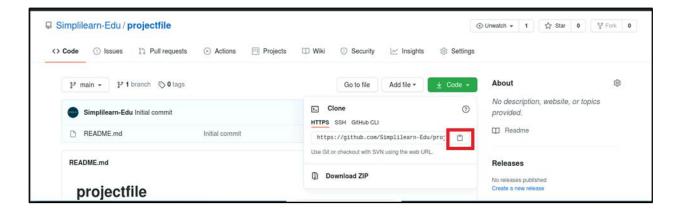
#### Click on Create Repository to create a new repository





# **Step 2: Clone the repository**

2.1 Open the **projectfile** repository, click on the **Code** button, and click on the copy icon as shown in the following screenshot to copy the **URL** provided under **HTTPS** 



2.2 Open the terminal on your lab and use the following command to clone the repository: git clone URL

```
Cloning into 'projectfile'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

Receiving objects: 100% (3/3), done.
```

**Note:** Replace URL with the copied URL from the repository

### Step 3: List all the branches in your repository

3.1 Open the terminal in your lab, and navigate to the **projectfile** folder by entering the following command:

cd projectfile



3.2 Use the following command to list all the branches in your repository: **git branch** 

```
* main
i@ip-172-31-71-23:~/projectfile

* main
i@ip-172-31-71-23:~/projectfile$
```

# Step 4: Create a new branch and verify its creation

4.1 Run the following command to create a new branch in your repository: **git branch new\_branch** 

```
projectfile git branch new_branch
```

4.2 To verify the branch created, run the following command: **git branch** 

```
* main new_branch
new_branch
new_branch
new_branch

* i@ip-172-31-71-23:~/projectfile$

* main new_branch
```

# **Step 5: Rename an existing branch**

5.1 Use the following command to rename the new\_branch: git branch -m new branch1

```
@ip-172-31-71-23:~/projectfile$ git branch -m new_branch1
```



5.2 Use the following command to list the branches to verify the new name of the branch: **git branch** 

### Step 6: Delete the branch and verify its deletion

6.1 Use the following command to delete the newly created branch: git branch -d new\_branch

```
Deleted branch new_branch (was d77a2b5).

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```

6.2 To verify whether the branch is deleted or not, run the following command: **git branch** 

```
* new_branch1

@ip-172-31-71-23:~/projectfile$ git branch

* new_branch1

@ip-172-31-71-23:~/projectfile$
```

By following these steps, you have successfully created a new branch in your GitHub repository, providing a segregated space to work on specific changes without affecting the main codebase.