Day: 6 Daily Assignments

Date: 01-Aug-2024

By: Parth Gurval

Assignment 1: Initialize a new Git repository in a directory of your choice. Add a simple text file to the repository and make the first commit.

Ans:

Objective: Initialize a new Git repository, add a simple text file, and make the first commit in Linux.

Step-by-Step Instructions

- 1. Open the Terminal and Navigate to the Desired Directory
 - a. Open the terminal on your Linux system.
 - Navigate to the directory where you want to create your new Git repository.
 - c. Command:
 - i. \$ cd Desktop/
 - ii. \$ ls
 - iii. \$ mkdir testFile
 - iv. \$ cd testFile/

2. Create a Simple Text File

- a. Create a new text file and write some text inside it.
- b. Command:
 - i. \$ touch sampleTextFile.txt
 - ii. \$ echo "This is an sample Test File" > sampleTextFile.txt

3. Check for Git Installation

- a. Ensure Git is installed on your system.
- b. Commands:
 - i. \$ sudo apt update
 - ii. \$ git - version
- c. If Git is not installed, install it using the following commands:
- d. Commands:
 - i. \$ sudo apt update
 - ii. \$ sudo apt install git

4. Initialize a New Git Repository

- **a.** Initialize a new Git repository in the current directory.
 - i. \$ git init

5. Configure Git User Information

- a. Set your email address and name for Git globally.
- b. Commands:
 - i. \$ git config --global user.email "userEmail@gmail.com"
 - ii. \$ git config --global user.name "userName"

6. Add the File to the Staging Area

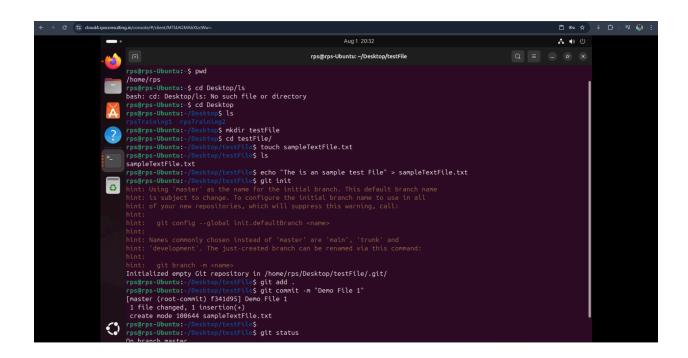
- **a.** Add the newly created file to the staging area.
- b. Command:
 - i. \$ add .

7. Commit the File

- **a.** Commit the file to the repository with a commit message.
- b. Command:
 - i. \$ git commit -m "My First File Commited"

8. Check the Repository Status

- a. Verify the status of your repository to ensure the commit was successful.
- b. Command:
 - i. \$ git status
- 9. ScreenShot:



Assignment 2: Branch Creation and Switching Create a new branch named 'feature' and switch to it. Make changes in the 'feature' branch and commit them.

Combined

Assignment 3: Feature Branches and Hotfixes _x000D_# Confidential - RP
Assignment 3: Feature Branches and Hotfixes Create a 'hotfix' branch to fix an
issue in the main code. Merge the 'hotfix' branch into 'main' ensuring that the
issue is resolved

[Mergerd/ Combined Done Assignment]

[Here I have done Assignment 2 and 3 Combined]

Ans:

For the initial Set-up Follow the Above Commands to create an file and upload it on git repository and now we are going to follow from next step commands for creating branch and merging the content of the branch to main branch.

Steps:

- 1. View How many branch you have
 - a. Command:
 - i. \$ git branch –list
- 2. Create a new branch named "feature" in git
 - a. Command:
 - i. \$ git branch feature (here feature is branch name)
- 3. Now Switch to newly created branch
 - a. Command:
 - \$ git checkout feature

- 4. Make file or Folder and make changes in the branch
 - a. Command:
 - i. \$ git nano SDLC_Phases.txt
- 5. Add changes to git
 - a. Command
 - i. \$ git add .
- 6. Commit Change to git
 - a. Command
 - i. \$ git commit -m "SDLC_Phases-1"
- 7. Check and Compare both branches
 - a. Commands:
 - i. \$ git Is-tree main
 - ii. \$ git Is-tree feature
- 8. Shift to main branch
 - a. Command:
 - i. \$ git checkout main
- 9. View the Merge and changes
 - a. Commands:
 - i. \$ git Is-tree main
 - ii. \$ git Is-tree feature
 - iii. \$ git log - online

