

Git / GitHub Workshop

Clarusway



Subject: Git Operations

Learning Goals

• Practice using the Git commands.

Introduction

We've covered a lot of Git concepts, but now it's time to put the concepts in to practice. We'll start with Git commands.

Code Along

Part 1 - Create a local repository

- 1. Open the terminal (Git Bash for Windows user)
- Go to Desktop and create a directory named "my-github" if you do not have already. And, go to "my-github" directory.

pwd mkdir my-github cd my-github

Create another folder named "git-workshop" and go to "git-workshop" directory.

mkdir git-workshop cd git-workshop

2. Git configuration

• Configure git with our name and email. This is to identify who has done what on git and github.

```
git config --global user.name "isim" git config --global user.email email@..... git config --global core.editor "nano"
```

• Check the setting

```
git config --list
```

- 3. Create a local repository
- We can do that by running the "init" command.

git init

• Check the if ".git" folder is created.

Is -al

Part 2 - Create a remote repository

- 4. Create a remote repository on GitHub
- Go to your GitHub account and create a repository named "git-workshop".
 - Write a description for your repo
 - o select Public
 - o add a README.MD file
- 5. Go to terminal
- Check the connected remote repositories. The 'git remote -v' lists all currently configured remote repositories, which at this point is none.

git remote -v

• connect to remote repository

git remote add origin https://github.com/ilknurozcelik/git-workshop.git

• Verify the new connection

git remote -v

- 6. Create a file named "file1.txt"
- check the status of the project folder

git status

• store the change in the local repo

git add file1.txt git commit -m "file1.txt was created"

7. upload the changes to the remote repo

git push -u origin master

• check the files on the github repo. (select master branch in GitHub)

Part 3 - Working with branches

- 8. Create a new remote repo named "git-workshop-2" in GitHub.
- 9. Clone the remote repo

- go the terminal
- clone the "git-workshop-2"

git clone adress

• check the files in the "git-workshop-2" and see the README.MD and .git file.

Is -al

- 10. Create a file named test.txt
- 11. Create a new branch named new-feature-1.

touch test.txt

git branch new-feature-1

See branches

git branch : show local branches git branch -r : show remote branches

git branch -a: show all remote and local repo

• Switch to new-feature-1

git checkout new-feature-1

• List the files and check the status of the working directory

ls -al git status

• Make some changes in the test.txt file, and check the status

nano test.txt

git status

• Store the changes to the repo and check the status

git add . git commit -m "test.txt was modified • Add another line to test.txt and store it to the local repo.

nano test.txt

• Switch the main branch and see the content of the test.txt

git checkout main cat test.txt

• Merge new-feature-1 branch to main branch.

git merge new-feature-1

cat test.txt

12. Create a new branch named new-feature-2 and switch to it.

git branch new-feature-2

• Create a new file named test2.txt, add a line in it and store the changes to repo.

vim test2.txt nano test2.txt git add .

git commit -m "test2.txt was modified"

• Switch the main branch again.

git branch master

• Create a new file test3.txt and send the changes to local repo.

nano test3.txt git add . git commit -m "test3.txt was created"

• Open the file named test2.txt, add a line in it and store the changes to repo.

merge main branch with new-feature-1
13. RESOLVE THE CONFLICT
• edit the file.
• then commit it.
14. Push the local changes to the remote repository
15. Go and check the remote repository, you will see the new files
16. Go to the terminal and delete the branches named front-end and back-end
List the all branches
© Thanks for Attending 🙆
Clarusway