

Git Repository Report

Using a git repository for collaboration contains several steps and has a different approach.

1. Initializing git repository

Step 1: create a remote repository on github or git lab.

Step 2: create a project on a local device.

Step 3: initialise project folder as git folder by using 'git init' command

Step 4: make initial commit by using following command:

- Git add -A
- Git commit -m "<message>"

Step 5: connect local project folder to remote git repository by following command:

- Git add remote <remote name> <git url>
Eg: git add remote origin <https://github.com/junaidekv/sample.git>

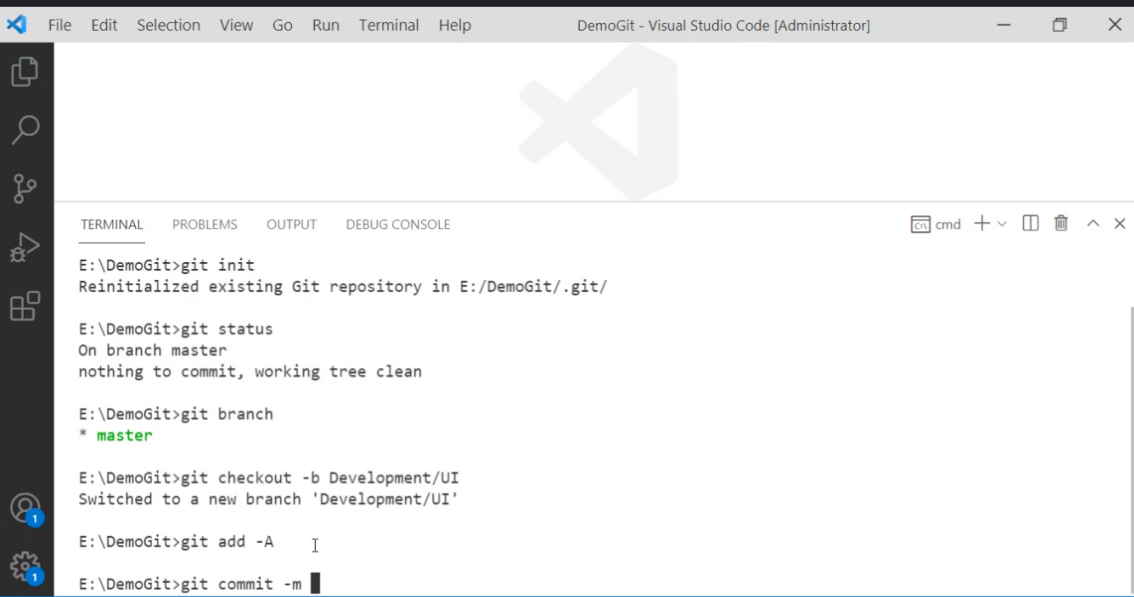
Step 6: make new branches if needed

- Git checkout -b <branch name>
Eg: git checkout -b development/ui

Step 7: push committed changes to remote repository

- Git push -u -f <remote name> <branch name>
Eg: git push -u -f origin development/ui

After step 7 the contents in local project repository will be uploaded to remote repository



The screenshot shows the Visual Studio Code interface with the terminal window open. The terminal displays the following commands and output:

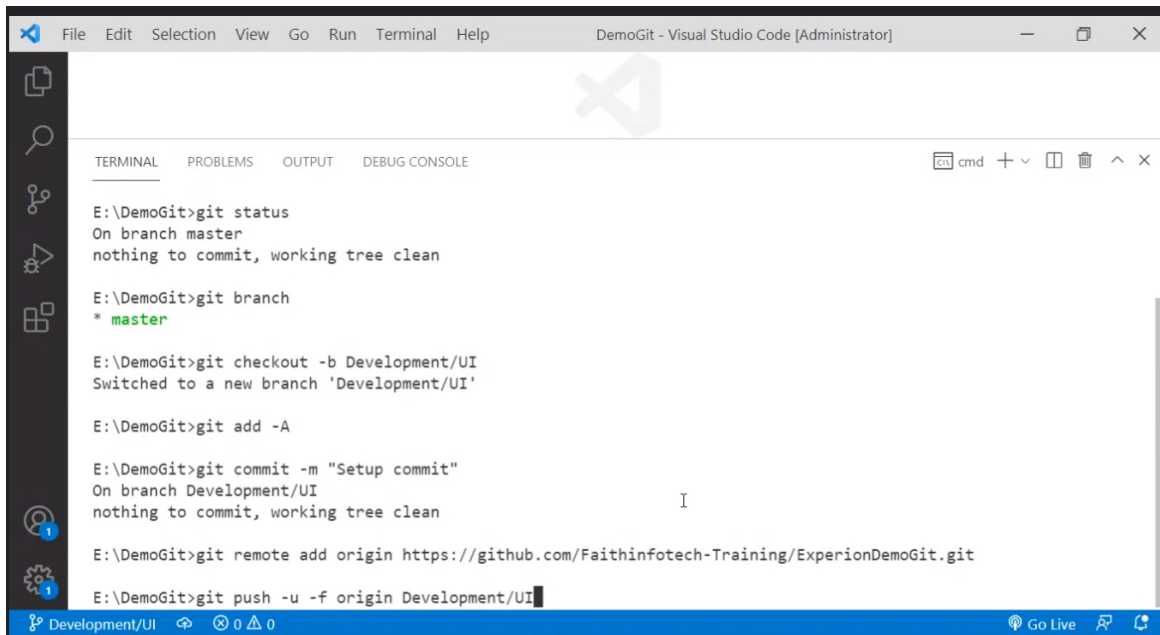
```
E:\DemoGit>git init
Reinitialized existing Git repository in E:/DemoGit/.git/

E:\DemoGit>git status
On branch master
nothing to commit, working tree clean

E:\DemoGit>git branch
* master

E:\DemoGit>git checkout -b Development/UI
Switched to a new branch 'Development/UI'

E:\DemoGit>git add -A
E:\DemoGit>git commit -m
```

A screenshot of the Visual Studio Code interface with the terminal window open. The terminal shows a series of Git commands and their outputs. The commands are: 'git status', 'git branch', 'git checkout -b Development/UI', 'git add -A', 'git commit -m "Setup commit"', 'git remote add origin https://github.com/Faithinfotech-Training/ExperionDemoGit.git', and 'git push -u -f origin Development/UI'. The output shows the current branch, commit status, and successful push to the remote repository. The status bar at the bottom indicates the current branch is 'Development/UI'.

2. Clone and using existing git repository

Step1 : use following command to clone existing remote git repository and use it in local system.

- Git clone <url> - -branch <branch>
Eg: git clone <https://github.com/junaidekv/sample.git> - - branch development/ui

Step 2: after making any changes and want to upload it to a remote repository use the following commands.

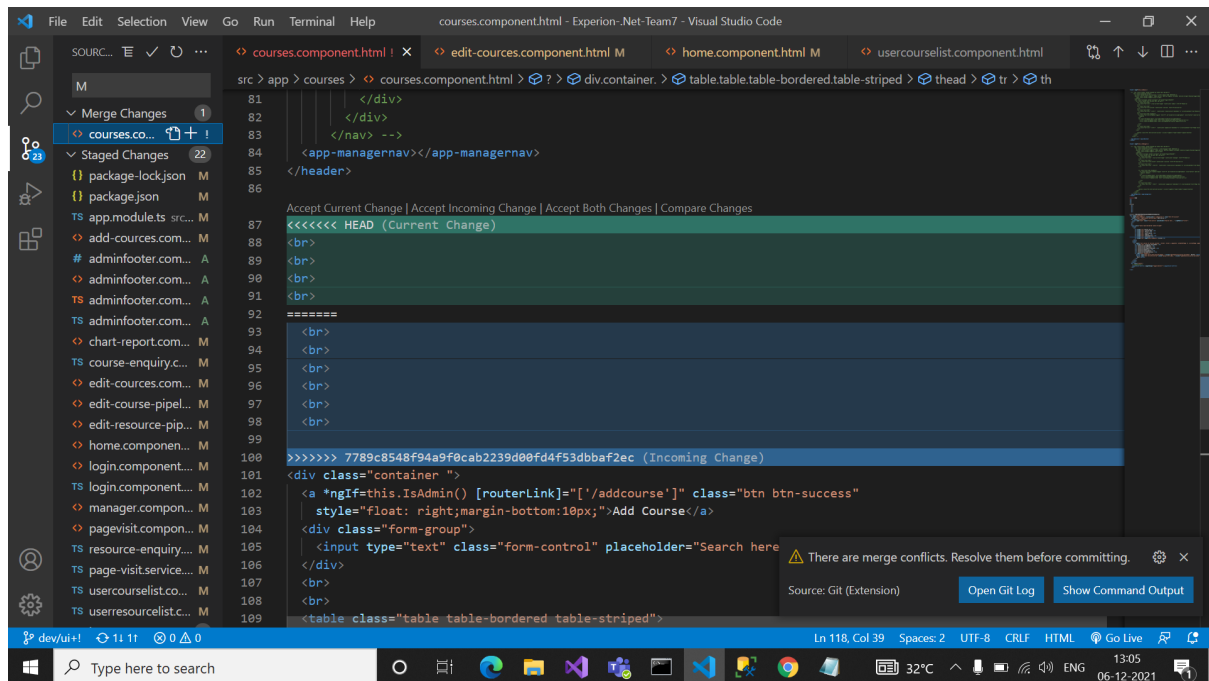
- Git add <file name>
or
git add -A
- Git commit -m "<message>"
- Git push <remote name> <branch>
Eg: git push origin development/ui

3. After initialising and cloning procedure every time when a user wants to upload their changes they have to take a pull from a remote repository.

- Git checkout <branch>
Eg:git checkout development/ui
- Git pull

Note: Sometimes git pull will result conflicts in the file so we have to check where the conflict is occurring and resolve the conflict git gui system enable 3 option for resolving the conflict that are

- Accept incoming
- Accept local
- Accept both



We have to choose this options accordingly and after all the conflict are resolved, Make the changes as staged and commit the changes.

- Git add -A
- Git commit -m "<message>"