Source Code Management with Git

Handson Workbook



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Activity 1

Install Git and Initial configuration of Git Scenario

To get started hands on for Git, we need to install GIT based on OS we use.

Steps

1 Installation Commands:

Following table lists the commands to install Git in different operating systems:

Operating System	Command to Install
Linux	Run the following command: sudo yum install git
Debian-based like Ubuntu	Run the following command: sudo apt-get install git
Windows	Access the following link: Git - Downloading Package (git-scm.com) The download will start automatically. PFA doc. For git installing git instructions.

2 Initial Configuration Setup:

To set an identity, use the following commands:

git config --global user.name <name> git config --global user.email <email>

Example:

git config --global user.name Rakhi Parashar git config --global user.email rakhi.Parashar@accenture.com

```
rakhi.parashar@M2B-L-5296SMP MINGW32 ~
git config --global user.name "Rakhi Parashar"
rakhi.parashar@M2B-L-5296SMP MINGW32 ~
git config --global user.email rakhi.parashar@accenture.com
rakhi.parashar@M2B-L-5296SMP MINGW32 ~
```

3 To view all the configurations, use the following command:

git config --list

```
$ git config --list
core.symlinks=false
core.autocrlf=true
core.fscache=true
color.diff=auto
color.status=auto
color.branch=auto
color.interactive=true
help.format=html
rebase.autosquash=true
http.sslcainfo=C:/Users/rakhi.parashar/AppData/Local/Programs/Git/mingw32/ssl/certs/ca-bundle.crt
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.required=true
filter.lfs.process=git-lfs filter-process
pack.packsizelimit=2g
gui.recentrepo=C:/Users/rakhi.parashar/develop
gui.recentrepo=C:/Devops/TestRakhi
gui.recentrepo=C:/Devops/TestRakhi
gui.recentrepo=C:/Data/DevopsAcademy/ExampleProject
user.name=Rakhi Parashar
user.email=rakhi.parashar@accenture.com
Initializing Git repository:
To initialize Git repository run the following commands:
    git init
                (to initialize git repository)
             (go to git directory and verifying GIT repository initialization)
```

```
(to list all files and directories .git contains)
jaswanth.k.konduru@HDC2-L-F2AKE8B MINGW64 ~
$ mkdir gitpractice
jaswanth.k.konduru@HDC2-L-F2AKE8B MINGW64 ~
$ cd gitpractice/
jaswanth.k.konduru@HDC2-L-F2AKE8B MINGW64 ~/gitpractice
/c/Users/jaswanth.k.konduru/gitpractice
jaswanth.k.konduru@HDC2-L-F2AKE8B MINGW64 ~/gitpractice
Initialized empty Git repository in C:/Users/jaswanth.k.konduru/gitpractice/.git/
jaswanth.k.konduru@HDC2-L-F2AKE8B MINGW64 ~/gitpractice (master)
$ cd .git
jaswanth.k.konduru@HDC2-L-F2AKE8B MINGW64 ~/gitpractice/.git (GIT_DIR!)
$ dir
HEAD config description hooks info objects refs
aswanth.k.konduru@HDC2-L-F2AKE8B MINGW64 ~/gitpractice/.git (GIT_DIR!)
 ls -a
         HEAD config description hooks/ info/ objects/ refs/
```

dir

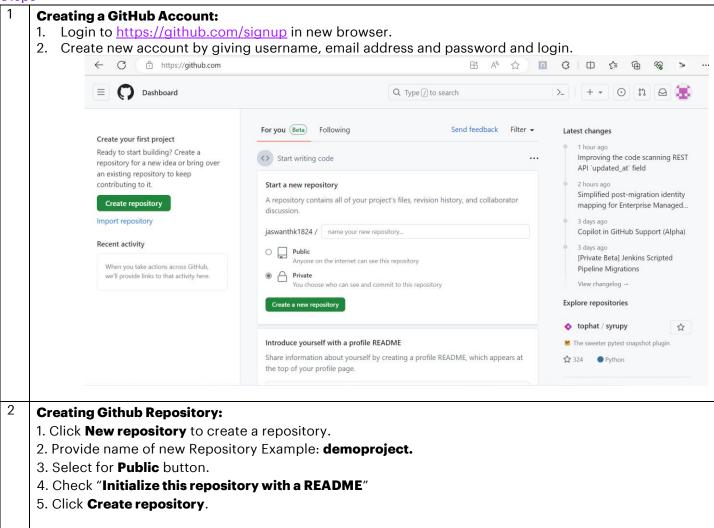
Activity2

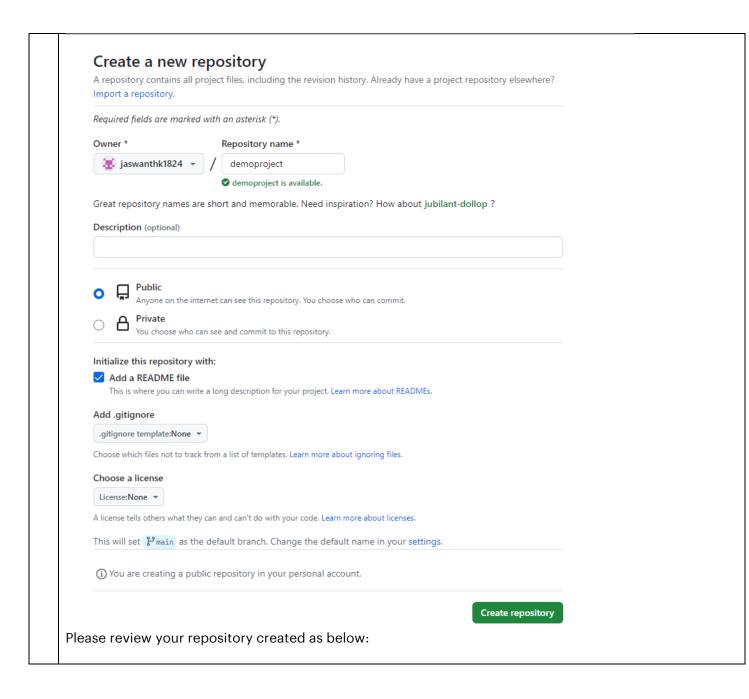
Working in GitHub

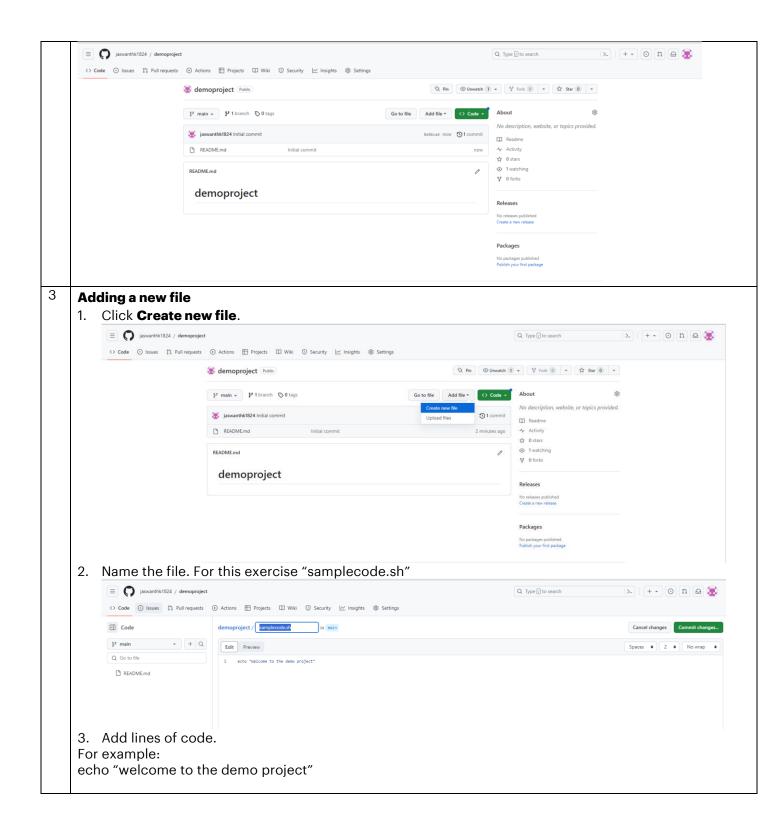
Scenario

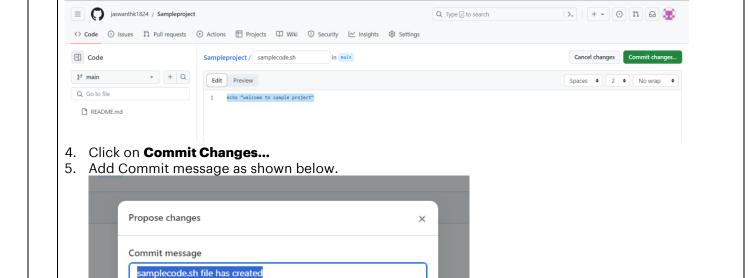
Create an account in GitHub. Login to the GitHub and create a new repository as NewProject and branch gitbash. Create and add the file to the project. Make some changes in the code and then commit your changes in the main as well as develop.

Steps









6. Ensure that **create a new branch for this commit and start a pull request** and provide branch name as **develop** as shown above.

Propose changes

7. Click on Propose Changes

Extended description

Add an optional extended description..

O Commit directly to the main branch

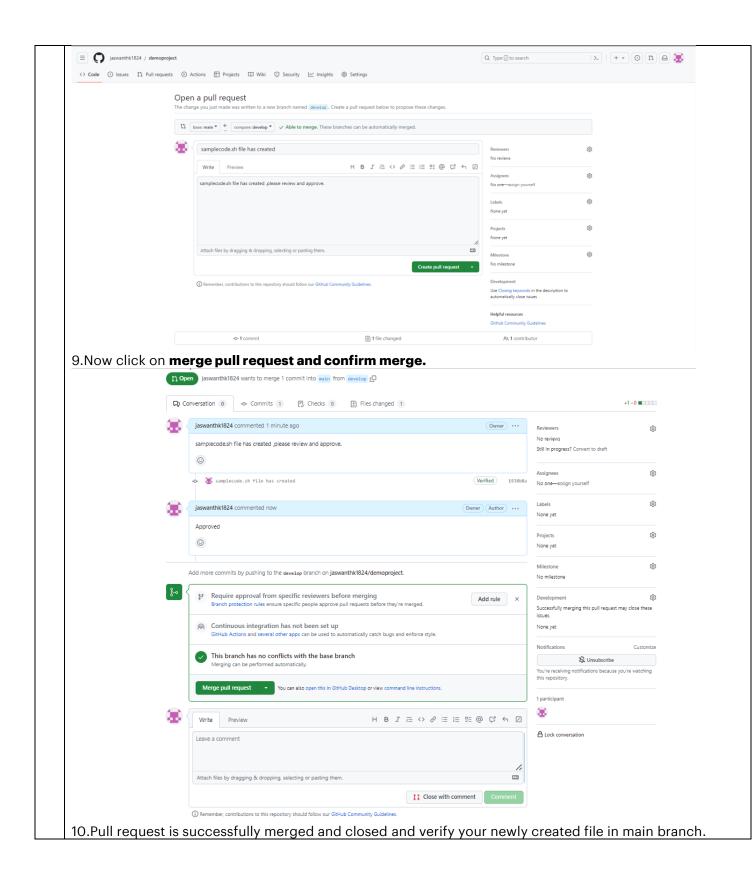
Learn more about pull requests

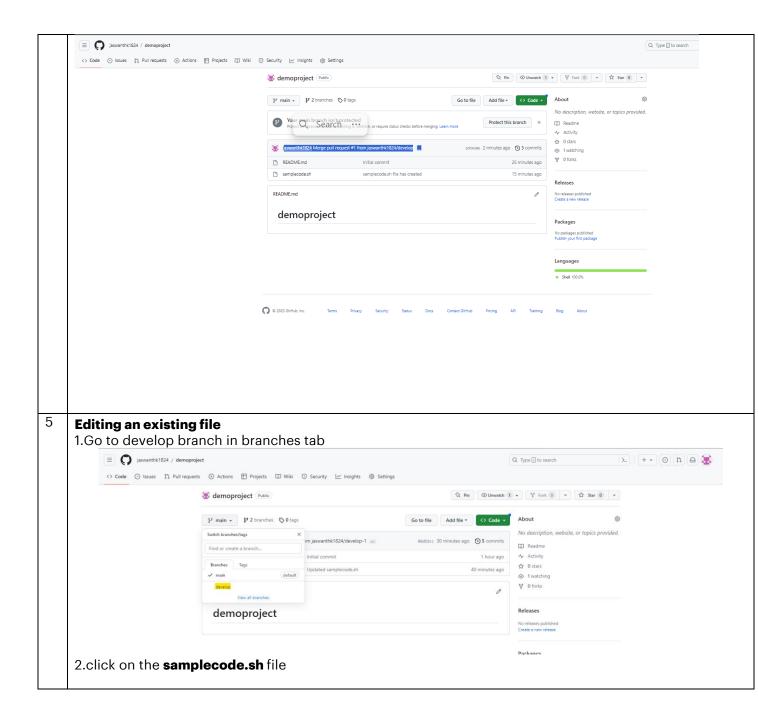
ןן develop

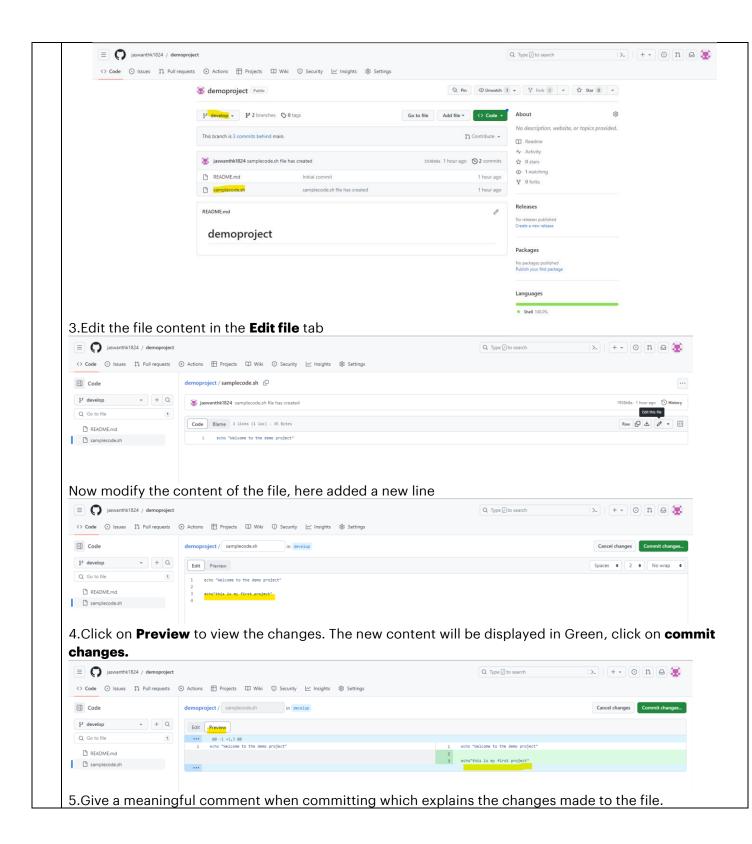
8. Now add comments and click on create pull request

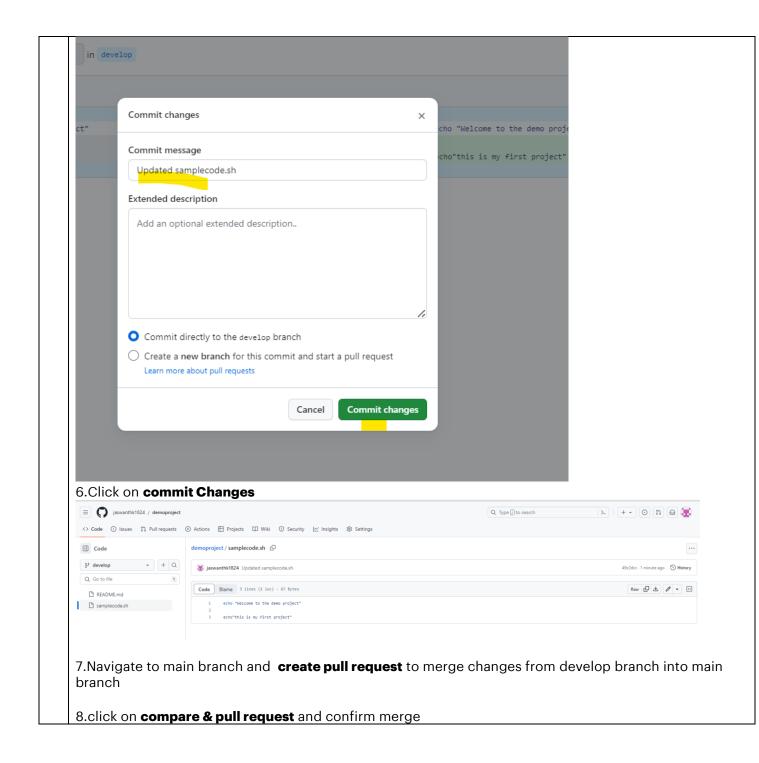
O Create a new branch for this commit and start a pull request

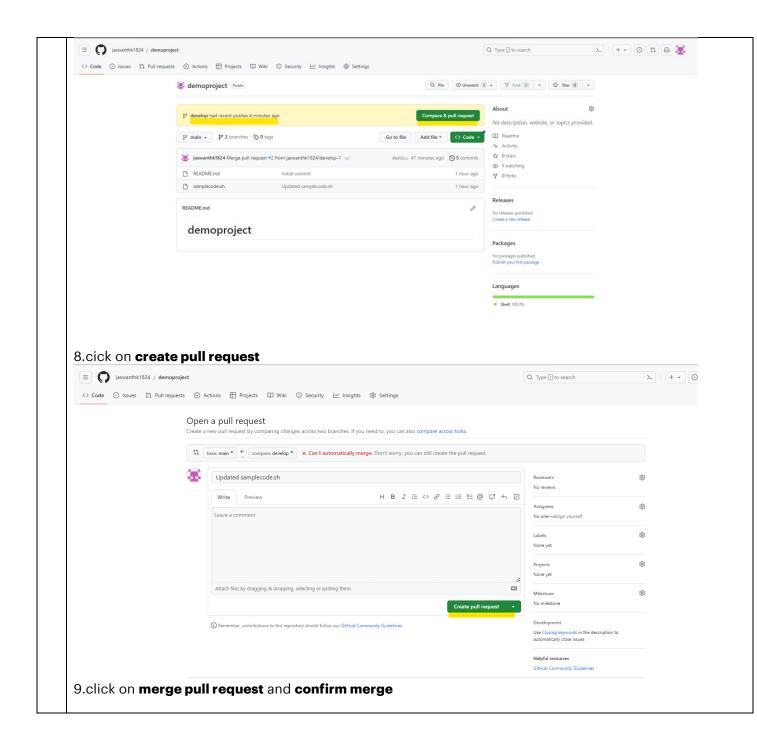
Cancel

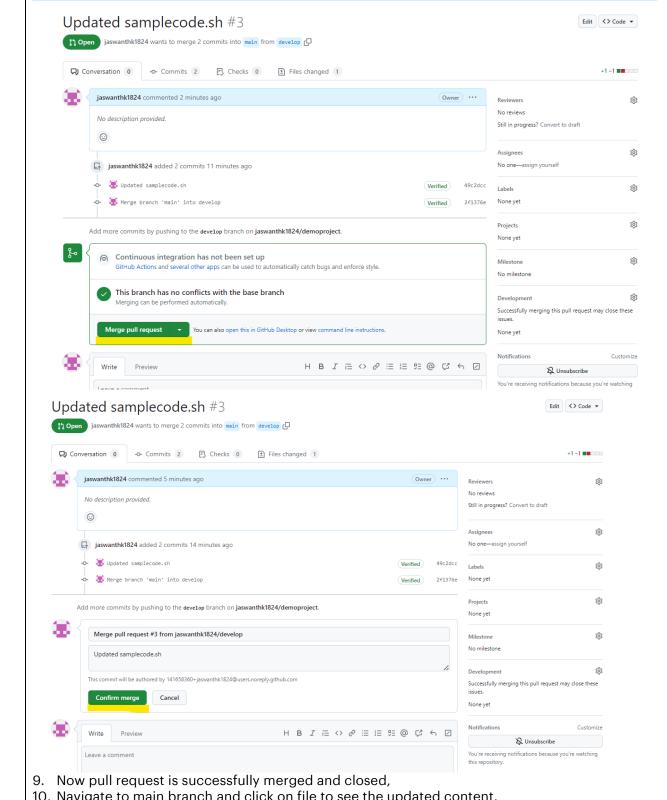












10. Navigate to main branch and click on file to see the updated content.

