

Module 8 Pre-Read - Github

Monday, March 18, 2024 00:00

Explain the add, commit, push workflow to synchronize a GitHub repository with a local repository

Describe the role of an ssh key in a git/GitHub workflow

SSH keys are a way to password protect your files and pushing to Github. DO NOT SHARE THE PRIVATE KEY. You can put the public key (the one that is .pub) on Github. To do that, in Github, go to Profile > Settings > SSH and GPG keys

Then, to check that the public key works, `ssh -T git@github.com`

Use git remote and git push to move code between a local repository and a GitHub repository

```
git remote add origin git@github...
```

(adding a remote to a local repository. A remote is just a link between your local repository and Github)

```
git push origin main
```

(pushed the local repository to Github)

Users can see all the history, not just the status of the file when the file was pushed.

You can push multiple commits at once, and can also push multiple branches

Use the fork operation on GitHub and git clone to create a remote repository and download it

Use git fetch and git merge to synchronize a local repository with a remote repository

```
git fetch origin
```

Bring changes on github back down to local repository

```
git pull
```

Completes the synchronization of the repository

```
git remote add theusernameoftheperson link.com
```

Added a connection between local repository and other person's GitHub

```
git fetch theusernameoftheperson
```

Downloaded contents of the other person's GitHub

```
git checkout theusernameoftheperson/main
```

Viewing a commit that doesn't live on our local machine

```
git branch r-main
```

Create our own branch to bring that commit into our repo

```
git checkout r-main
```

Now you can test code out before merging

```
git checkout main
```

```
git merge r-main
```

Does a fast forward merge

```
git branch -d r-main
```

```
git remote remove theusernameoftheperson
```

```
git remote -v
```

All this removes the temp branch r-main

Describe the process of submitting a pull request to someone else's GitHub repository

Merge changes you've made in your repository into THEIR repository

Explain the motivation for defining an upstream remote

Describe what the git pull operation does