

■ Git & GitHub Basics Cheat Sheet

1. What is Git & GitHub?

- Git: Version control system to track code changes locally.
- GitHub: Online platform to host and share Git repositories.

2. Start a New Git Repository

1. Open terminal in your project folder
2. Initialize repository: git init

3. Add and Commit Files

- Add all files: git add .
- Commit changes: git commit -m 'Initial commit'

4. Connect to GitHub

- Add remote: git remote add origin https://github.com/username/repo.git
- Push to GitHub: git push -u origin main

5. Check Status and History

- git status → See which files changed
- git log → View commit history
- git diff → See code differences

6. Branching

- Create a branch: git branch feature-x
- Switch branch: git checkout feature-x
- Merge branch: git merge feature-x

7. Update and Sync

- Pull changes from GitHub: git pull
- Push new commits: git push

8. .gitignore (Recommended)

Files you don't want Git to track:

- /vendor/
- /var/
- .env
- /node_modules/

9. Clone a Repository

- git clone https://github.com/username/repo.git

10. Daily Workflow Example

```
git status  
git add .  
git commit -m 'Your message'  
git pull  
git push
```