

# ■ 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