**1 Create GitHub Account**

1. Go to https://github.com → Sign up → Verify email.

2. Create a **repository**:

   o Click **New Repository** → Name it mywebapp → Public/Private → Create.

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**2. Install Git**

git --version      # check if installed

**Install if needed:**

- Windows: git-scm.com

- Mac: brew install git

- Linux: sudo apt install git

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**3. Configure Git**

git config --global user.name "Your Name"

git config --global user.email "your_email@example.com"

**4. Initialize Local Repository**

cd path/to/mywebapp

git init

**5. Add Files to Staging**

git add .         # add all files

# or add specific file

git add filename

**6. Commit Changes**

git commit -m "Initial commit"

**7. Connect Local Repo to GitHub**

git remote add origin https://github.com/username/mywebapp.git

git branch -M main    # rename default branch to main

**8. Push Code to GitHub**

git push -u origin main

Use **GitHub username + personal access token** if prompted.

| Command | Purpose |
| --- | --- |
| git status | Check modified/untracked files |
| git log | View commit history |
| git diff | See file changes before commit |
| git pull | Fetch and merge remote changes |
| git clone <url> | Clone remote repo locally |
| git checkout -b <branch> | Create + switch to new branch |
| git merge <branch> | Merge branch into current branch |
| git commit -am "msg" | Stage + commit modified files in one step |