

Git Cheat Sheet for CIS 133J



Create a Git Repository for a Project

1. Open Git Bash in the root project folder
2. Copy .gitignore to the root project folder
3. Initialize repo: `git init`
4. Stage files: `git add .`
5. Commit files: `git commit -m"Initialize project"`

Implement a Feature in your Project

1. Open Git Bash in the root project folder
2. Check that you are on the master branch with nothing to commit
3. Create branch with descriptive name: `git branch my-feature`
4. Move onto branch: `git checkout my-feature`
5. Repeat for each small step in implementing the feature:
 - a. Work on Java code, creating classes, editing code, testing
 - b. Stage updated files: `git add .`
 - c. Commit files with descriptive message: `git commit -m"Describe updates"`
6. When feature is complete, move back to master: `git checkout master`
7. Merge feature into master: `git merge my-feature`

Git Command Reference

<code>git status</code>	Show status of the repository
<code>git checkout branch-name</code>	Move onto a branch
<code>git log</code>	Show commit log
<code>git log --oneline</code>	Show commit log in condensed form
<code>git add file</code>	Stage a file
<code>git reset HEAD file</code>	Unstage a file
<code>git commit -m"Message"</code>	Commit staged files
<code>git merge branch-name</code>	Merge branch-name into the current branch

Bash Command Reference

<code>ls -a</code>	List files in the current folder, including hidden files
<code>cd folder</code>	Change directory to the specified folder
<code>cd ..</code>	Change directory up one level