



GeeksforGeeks

GIT GITHUB



DETAILED COURSE SYLLABUS

COURSE OVERVIEW

- Course Overview

VERSION CONTROL SYSTEM

- What is VCS?
- Local,Centralised, Distributed VCS

INSTALLATION OF GIT

- Installing on Windows
- Installing on MAC

COMMAND LINE BASICS

- Change, Create File and Directory,List Items
- Remove File and Directory, Copy and Move Directory

INTRODUCTION TO GIT

- Three Stage Architecture
- How Git Differs from Other Version Control Systems

GIT BASICS

- Initializing a Git Repository
- Adding files and committing to repository
- Repository's history and status

BRANCHING

- What is branching and why do we need branching?
- Creating and switching between branches
- Branch logging and deleting a branch

MERGING

- Basic Merging and Recursive Merging
- Merge Conflicts
- Resolving Conflicts

REBASING

- What is rebasing and how is it different from merging?
- Rebasing a branch
- Advantages and disadvantages of Rebasing

STASHING

- Stashing

REFLOG

- Reflog

GITHUB

- What is Github and how is it different from Git?
- Creating a Github repository
- Uploading existing projects on Github + GitIgnore
- Working with remote repositories
- Cloning a repository
- Forking a repository
- Fetching changes from GitHub
- Git Fetch V/S Git Pull
- Creating a pull request
- Merging a pull request
- Creating issues on GitHub
- Deploying static sites on github pages
- Exploring network graphs on github

EXTRA TOOLS

- Cleaning the working repository
- Changing commit messages and content
- Checking past commits
- Git reset
- Reverting commits
- Deleting commits from Github
- CherryPicking commits