GIT COURSE SYLLABUS

Hi Folks,

Oranium Tech introducing some amazing content on GIT. It has a default value as an unnamed repository and the developers should place the actual project name and description in this file. It is used by Git as a default way to know the name of the repository. It is used by GitWeb and is not considered by GitHub or GitLab.

Introduction

- What is a Version Control System (VCS)?
- Distributed vs Non-distributed VCS
- What is Git and where did it come from?
- Alternatives to Git
- Cloud-based solutions (Github, Gitlab, BitBucket, etc)

Installation and Configuration

- Obtaining Git
- Installing Git
- Common configuration options
- GUI tools

Key Terminology

- Clone
- Working Tree
- Checkout
- Staging area
- Add
- Commit
- Push
- Pull
- Stash

Git - Local Repository Actions

- Creating a repository (git init)
- Checking status (git status)
- Adding files to a repository (git add)
- Committing files (git commit)
- Removing staged files (git reset)
- Removing committed files (git rm)
- Checking logs (git log)

Git - Remote Repository Actions

- Creating a remote repository (git init)
- Cloning repositories (git clone)
- Updating the remote repository from the local (git push)
- Updating the local repository from the remote (git pull)

Tagging in Git

- What are Git Tags?
- Listing tags
- Lightweight tags
- Displaying tag details (tag show)
- Annotated tags
- Checking out tags
- Pushing tags
- Pulling tags

Branching in Git

- What is a branch
- A note about andlt;HEADandgt;
- Listing branches
- Create new branch
- Checkout branch
- Pushing branches
- Pulling branches

Merging in Git

- Fetching Changes (git fetch)
- Rebasing (git rebase)
- Git Pull

Git - Stashing Changes

- What is Stashing?
- Using Stash
- Creating a branch from a Stash

Advanced Repository Actions

- Removing untracked files (git clean)
- Remove staged changes (git reset)
- Revert a commit (git revert)
- Checkout a previous commit (git checkout)

Advanced Branching and Merging

- Deleting a Branch
- Fast forward merge
- Three way merge
- Resolving merge conflicts
- Cherry-Picking (git cherry-pick)

Advanced Git Configuration

- Aliases
- Submodules
- Patches
- Hooks

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