Class Summary (Post-Class Update)

Hi!

Thank you for attending today's class. Here's a quick summary of what we covered:

Key Highlights from Today's Class
Topic Covered:

Git Fundamentals and Basic Operations

Main Concepts Learned:

- What Git is and why it is essential for modern software development and DevOps workflows
- Understanding Git as a distributed version control system and how it acts as a "time machine" for code
- Core Git concepts: repositories, commits, staging area (like a "shopping cart"), and commit history
- Local Git workflow: git init → git status → git add → git commit → git log
- Remote repositories and collaboration using GitHub
- Pushing local code to GitHub and pulling updates from remote repositories
- Introduction to basic collaboration concepts such as forks and pull requests

Practical Examples / Case Studies Discussed:

- Creating a local Git repository from scratch
- Tracking file changes and creating multiple commits
- Viewing commit history and understanding snapshots
- Connecting a local repository to GitHub
- Pushing code to a remote repository
- Cloning a repository and pulling updates

Tools / Resources Introduced:

- Git – Version control system
- GitHub – Remote repository hosting and collaboration platform
- Terminal / Git Bash – Command-line interface for Git operations
- Git Cheat Sheet – Quick reference for common Git commands

Preparation for Next Session:

Next class we'll cover Git Branching, Merging, and Resolving Conflicts — a critical skill for real-world DevOps and team-based development.

See you in the next class!