Course duration

- 2 days

Course Benefits

- Start a Git repository from an existing project or clone a project hosted on the internet.
- Obtain a fundamental understanding of how to manage remote repositories.
- Learn the theory of and why branches are important.
- Learn about Git tools like stash and cherry-pick.
- Become knowledgeable with the GitHub portal and how to use it professionally.
- Participate in a Git collaborative project in class.

Course Outline

1. Introduction
    1. What is Git?
    2. What is Version Control?
    3. Types of version control systems
    4. Is Git better than other similar tools?
2. Installing Git
    1. Installing Git on Windows
        1. Chocolatey
        2. Git for Windows
        3. Git Bash for Windows
    2. Installing Git on Mac
        1. Using Homebrew
        2. Using Xcode development tools
        3. Checking if Git is installed correctly
3. Git Fundamentals
    1. The File Status Lifecycle
        1. Untracked
        2. Tracked
        3. Modified
        4. Staged
    2. Visual Workflow
    3. Using the terminal
    4. Choosing a Code Editor
        1. Windows
        2. Mac
4. Starting with Git
    1. Basic Operations

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.