

# GITHUB FOR DEVELOPERS (TTDV7551)

Course Code: 100772

Learn how to use GitHub to manage your code and projects effectively.

This course provides a deep dive into Git and GitHub, the web-based version control repository hosting service. While examples used in the class are related to code, GitHub can be used for other content applications.

## What You'll Learn

Join an engaging hands-on learning environment, where you'll learn:

- GitHub ecosystem
- Workflow and diagrams
- Configurations
- Isolating your work with branches
- Access and configuration options
- Collaborating with your team
- Search, reverts, and changes
- Code conflict resolution

This course has a 50% hands-on labs to 50% lecture ratio with engaging instruction, demos, group discussions, labs, and project work.

## Who Needs to Attend

Developer

## Prerequisites

To gain the most from this course, you should have:

- Prior experience with Git
- Basic coding or programming knowledge

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VIRTUAL CLASSROOM LIVE

\$1,995 USD

2 Day

## Virtual Classroom Live Outline

### Getting Started with Collaboration

- What is GitHub?
- The GitHub Ecosystem
- What is Git?
- Exploring a GitHub Repository
- Using GitHub Issues
- Creating A GitHub Issue
- Using Markdown

### Understanding the GitHub Flow

- The Essential GitHub Workflow

### Branching with Git

- Branching Defined
- Creating a Branch with GitHub
- Introduction
- Class Diagram
- Interaction Diagrams
- Sequence Diagrams
- Communication Diagrams
- State Machine Diagrams
- Diagram
- Implementation Diagrams

### Local Git Configuration

- Checking your Git version
- Git Configuration Levels
- Viewing your configurations
- Configuring your user name and email
- Configuring autocrlf

## **Working Locally with Git**

- Creating a Local copy of the repo
- Our favorite Git command: git status
- Using Branches locally
- Switching branches
- Creating a New File
- The Two Stage Commit

## **Collaborating on Your Code**

- Pushing your changes to GitHub
- Activity: Creating a Pull Request
- Exploring a Pull Request
- Code Review

## **Merging Pull Requests**

- Merge Explained
- Merging Your Pull Request
- Updating Your Local Repository
- Cleaning Up the Unneeded Branches

## **Viewing Local Project History**

- Using Git Log

## **Streaming Your Workflow with Aliases**

- Creating Custom Aliases

## **Workflow Review Project: GitHub Games**

- User Accounts vs. Organization Accounts
- Introduction to GitHub Pages
- What is a Fork?
- Creating a Fork
- Workflow Review: Updating the README.md

## **Resolving Merge Conflicts**

- Local Merge Conflicts

## **Working with Multiple Conflicts**

- Remote Merge Conflicts
- Exploring

## **Searching for Events in Your Code**

- What is Git bisect?
- Finding the bug in your project

## **Reverting Commits**

- How Commits are made
- Safe operations
- Reverting Commits

## **Helpful Git Commands**

- Moving and Renaming Files with Git
- Staging Hunks of Changes

### **Viewing Local Changes**

- Comparing changes with the Repository

### **Creating a New Local Repository**

- Initializing a new local repository

### **Fixing Commit Mistakes**

- Revising your last commit

### **Rewriting History with Git Reset**

- Understanding reset
- Reset Modes
- Reset Soft
- Reset Mixed
- Reset Hard
- Does gone really mean gone?

### **Getting it Back**

- You just want that one commit
- Oops, I didn't mean to reset

### **Merge Strategies: Rebase**

- About Git rebase
- Understanding Git Merge Strategies
- Creating a Linear History

Sep 15 - 16, 2025 | 10:00 AM - 6:00 PM EST



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PRIVATE GROUP TRAINING

2 Day

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