

# **Lab 09 Agenda**

## **1. Build & Deployment Setup**

- Build Scripts: Explain and demonstrate the Windows/Unix build scripts.
- How to Run the Scripts: Provide documentation on setup, running, and deployment.
- Live Demonstration: Show the build, run, and deployment process.

## **2. Version Control Demonstration**

- Version Control System Overview: Git, GitHub/GitLab, etc.
- Commit History & Contributions: Show that every team member has contributed.
- Branching Strategy: Demonstrate the main trunk and any feature branches.

## **3. Test-Driven Development (TDD) Approach**

- Feature Yet to be Developed: Introduce a new feature and its purpose.
- Write the Test First: Demonstrate a test written before implementation (Red Phase).
- Run the Test Suite: Show that the test fails.
- Implement the Feature: Develop the feature and rerun the test.
- Updated Test Suite: Show coverage of the new feature.

## **4. Task Management & Agile Metrics**

- Updated Task Board: Show progress tracking tools (Jira, Trello, GitHub Projects).
- Burn Down Chart: Display and explain project progress.
- Updated Velocity: Analyze sprint completion rate.

## **5. Debugging & Observations**

- Interesting Bugs Encountered: Describe and demonstrate notable bugs.

- Observations on Testing: Discuss challenges, learnings, and usefulness of testing.

## **6. Project Update & Final Demonstration**

- Show the Updated Project: Screenshots or live demo.
- Unit Test Deliverables: Present all completed unit tests.