

COMP 3095 – Web Application Development with Java

Lab 1A Development Environment Setup

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Laboratory #1A – Development Environment Setup

1. Laboratory Objective

To have a fully functioning development environment to use for the duration of the course lectures and labs.

2. Laboratory Learning Outcomes: After conducting this laboratory students will be able to:

- a. Type, edit, compile, execute and debug a java code in a working IDE environment.
- b. **Java JDK 11**
- c. **Maven 3.x** or higher installed
 - i. Ideally configured for command line use
- d. **Gradle 3.x** or higher installed
- e. **IntelliJ IDEA** or **Spring Source Tool Suite (STS)**
 - i. Please note IntelliJ community edition does not have Spring support in it.
 - ii. Students can apply for a **free license** for Ultimate Edition - <https://www.jetbrains.com/community/education/#students>

3. Laboratory Instructions

- I. Install and verify Java: **java --version**
- II. Verify JDK (oracle or OpenJDK, both are fine) is installed: **javac -version**
 - a. This verifies that the java compiler (and not just the runtime) has been installed.
- III. Install and verify Maven is installed: **mvn -v**
- IV. Install and verify Gradle is installed: **gradle -v**
- V. Install IntelliJ – IDEA
- VI. Install git and validate installation