Installation and Testing Guide

Installation Instructions

(When in doubt, just press "Next")

Each time you change environment variables, make sure to close all terminal windows and reopen to test the versions.

1. Install at least Java 17+

   - Update the path in environment variables and move it to the top.

2. Install Node.js

   - Visit https://nodejs.org/en to download and install the latest version.

   - At the end of the installation, check the last checkbox and click "Finish."

   - A PowerShell window will open-don't worry. When you see the message "Authenticode verification returned 0x00000000 for path", it's done. You can close it.

   - Open a cmd and test the installation in the command prompt with:

node -v and npm -v

3. Install Angular

   Run the following command in the cmd to install Angular CLI globally:

npm install -g @angular/cli

   - Update to the latest version as instructed in the console output.

   - Verify the installation with:

ng version

4. Install Visual Studio Code (VSCode)

   - Install the following extensions:

- Extension Pack for Java
- Spring Boot Extension Pack
- Angular Extension Pack

5. Install Git

  - During the installation, you can set VSCode as the default editor (optional).

  - If you don't have a GitHub account, create one at github.com.

6. Install Maven

  - Download Maven from maven.apache.org/download.cgi.

  - Extract the [apache-maven-3.9.9-bin.zip](#) folder to C:\Program Files\Apache\Maven.

  - Add MAVEN_HOME environment variable: C:\Program Files\Apache\Maven\apache-maven-3.9.9

  - Add C:\Program Files\Apache\Maven\apache-maven-3.9.9\bin to the system's Path.

  - Verify the installation with:

mvn --version

7. Install MySQL (mysql-installer-community-8.0.41.0.msi)

  - Download MySQL from dev.mysql.com/downloads/installer.

  - In the installer, select "Full" as the setup type.

  - Set a memorable password; for simplicity, use "admin".

Testing Guide

0. Set Up the Project Environment

  - Create a project folder anywhere on your machine. This will be our working directory.

1. Frontend

  - Navigate to the project folder and run: ng new demo

  - Use the arrow keys to select SCSS when prompted.

  - Respond y to any other questions.

  - Enter the newly created demo folder: cd demo

  - Run: ng serve

  - Open the provided localhost link in your browser.

2. Backend

  - Go to start.spring.io.

  - Select Maven, Java, and version 3.4.2 (if available).

  - Add Dependencies: Spring Web, Spring Boot DevTools.

  - Click Generate to download the project.

  - Unzip the downloaded folder into the project folder.

  - Open the command prompt inside the backend folder (where you see src and other files).

  - Run: mvn clean install