University of Sevilla

Higher Technical School of Computer Engineering

D01 – Analysis Report

Degree in Computer Engineering - Software Engineering

Desing and Testing II

Course 2024 – 2025

Date	Version
19/02/2025	v1.0

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Repository: https://github.com/DP2-2025-C1-040/Acme-ANS

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Date	Version	Description	Delivery
19/02/2025	V1.0	First documentation of development configuration	D01

Executive summary

During the setup of the development environment and project import, we encountered several challenges. However, each issue was swiftly identified and efficiently resolved, ensuring that no significant roadblocks remain. With the environment now fully operational, we are well-positioned to proceed according to plan without disruptions. The detailed report outlines the obstacles we faced and the solutions implemented throughout this process.

Introduction

Setting up a robust development environment is a critical first step in ensuring a smooth and efficient workflow.

This report documents the configuration process, highlighting the challenges encountered and the solutions applied. By verifying that all necessary tools, dependencies, and project structures are correctly established, we confirm that the development environment is fully prepared for continued progress.

Contents

Project Setup

To begin the project setup, we accessed Blackboard, where we obtained the workspace containing the necessary tools for development. After downloading and configuring the tools according to the provided guidelines, we cloned the starter project and renamed it to match our project, updating the pom.xml file accordingly. We then set up the necessary launchers to run the project and populate the database.

Following this, we imported the Acme Framework (25.1.0) along with our project and customized key project files to include relevant team information, branding elements, and other necessary modifications.

Once the project was personalized, we set up the database using DBeaver, MariaDB, and the project launchers. Finally, after verifying that the project ran without errors, we successfully uploaded it to the platform.

Lombok Installation Issue

During the setup process, an issue arose with the Lombok library. The .jar file was incorrectly detected as a .rar archive due to WinRAR's automatic file association. As a result, it was not recognized as an executable Java archive, preventing proper installation.

To resolve this, the installation was manually executed via the command line. By navigating to the directory containing the Lombok file and running the following command:

java -jar lombok.jar

Lombok was successfully installed, and the issue was resolved.

Git Authentication Issue

While attempting to push changes to the main branch, an authentication error occurred when logging in through Eclipse. The error message displayed was:

Can't connect to any repository: https://github.com/DP2-2025-C1-040/Acme-ANS.git
(https://github.com/DP2-2025-C1-040/Acme-ANS.git: not authorized)

This issue was likely caused by authentication conflicts or missing permissions when using Eclipse's built-in Git integration.

To resolve the issue, GitHub Desktop was used as an alternative method for pushing changes. By cloning the repository, making the necessary commits, and pushing them through GitHub Desktop, the authentication problem was bypassed, and the repository was successfully updated.

Database Port Conflict (3306)

While attempting to start the database, an error occurred indicating that another process was already using port 3306. This prevented the database from launching properly, as it was unable to bind to the expected port.

Port 3306 is commonly used by MySQL and MariaDB. The issue was likely caused by another instance of MariaDB or a different service occupying the port, preventing a new connection.

To identify and terminate the conflicting process, the following steps were taken using the command line:

1. Find the process using port 3306:
   netstat -ano | findstr :3306

This command provided the PID (Process ID) of the service occupying the port.

2. Terminate the conflicting process:
   taskkill /PID <PID> /F

Replacing <PID> with the actual process ID forcibly stopped the process, freeing up port 3306.

After executing these commands, the database was able to start successfully.

Database Not Found During Initialization

During the project initialization, an error occurred because the system could not detect the database. This happened because MariaDB had not been started before running the initialization process, preventing the application from establishing a connection.

To resolve this issue, the database service needed to be manually started before running the initialization command.

Spring Bean Initialization Issue

Some users encountered an error related to Spring Beans, specifically a BeanDefinitionOverrideException for webSecurityExpressionHandler.

The issue was resolved by performing a Maven clean and rebuild process, ensuring that all dependencies and configurations were correctly applied. The following steps were taken:

1. Right-click on the project in Eclipse
2. Select Run As → Maven clean
3. Select Run As → Maven install
4. Go to Maven → Update Project
5. After completion, run populator#initial

If the issue persisted, an additional step was taken:

6. Restart Eclipse and repeat Maven clean, install, and update.

After performing these steps, the project initialized correctly without any bean-related errors.

Conclusions

The setup of the development environment was successfully completed after addressing several technical challenges. Issues such as incorrect file associations, authentication errors, database conflicts, and dependency misconfigurations were encountered during the process. However, each problem was systematically diagnosed and resolved, ensuring that the project is now fully operational.

With the development environment now fully configured and functional, we can focus on implementing and refining the project's core functionality, ensuring a smooth and efficient workflow moving forward.

Bibliography

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