Development Configuration

Diseño y Pruebas II

2024/25

Group: C1.009

GitHub Organization: https://github.com/DP2-2024-2025-C1-009

Hugo Borrego Angulo, Ricardo Carreño Mariño, Carlos Gallero Rodríguez, Jaime Gómez Marín, Jesús Martín de Acuña

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Executive Summary

This report presents an overview of the development environment set up for the project, highlighting the key aspects of the configuration process. It describes the tools used, the general configuration process, the challenges encountered, the implemented solutions, the environment validation, and the conclusions reached.
The most important aspects to be addressed in the document are:

1. **General configuration description**: The tools used for the proper configuration of the environment have been JDK 21; MariaDB as the database and DBeaver for executing the scripts; also, the installation of the developer version of Firefox to facilitate testing; and finally, the programming environment will be Eclipse, with the SonarLint and CSVEdit extensions, as well as the Lombok library.

2. **Configuration process**: The methodology imposed in the slides has been followed.

3. **Challenges and solutions**: The challenges encountered during the configuration are identified, along with the solutions implemented to address them.

4. **Environment validation**: For validation, we have used a starter project, which serves to determine whether the environment has been correctly configured by creating its corresponding database and running the project in Eclipse.

5. **Conclusion**: Although setting up the environment can be challenging at times, the entire team is ready to use it, thanks to the adherence to the guidelines imposed in the slides.

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Revision table

Revision Number	Date	Description
1.0	20/02/2025	Initial draft

Introduction

This report aims to provide an overview of the development environment set up for the project in question. It focuses on highlighting the key aspects of the configuration process, without delving into specific implementation details. This document demonstrates compliance with the guidelines established for preparing the development environment, thereby ensuring its suitability and functionality for project execution. The structure of the document is as follows:

1. **Summary**
   The summary provides a brief description of the most relevant aspects addressed in the report, including an overview of the development environment configuration.
2. **Version Control**
   This section includes information about the version control used for the development and tracking of the document.
3. **Introduction**
   This section offers an introduction to the report, its purpose, and its structure.
4. **Content**
   In this part, the most important aspects of the development environment are detailed, including the general description, the configuration process, the challenges encountered, the solutions implemented, and the environment validation.
5. **Conclusions**
   Here, the main conclusions derived from the development environment configuration process are summarized, confirming its adequacy and readiness for project work.
6. **Bibliography**
   A list of bibliographic references and documents consulted during the preparation of the report is provided.

Content

For the preparation of the development environment, we followed the guidelines provided by the teachers through virtual instruction.
First, each team member had to download the workspace provided by the teachers and then follow the guide from the **“S02-Getting Ready”** presentation to set up their individual environment, which involved installing and configuring the following:

1. Configure the Java version of the workspace in the system's environment variables.

2. Download and configure Firefox and Geckodriver in the system's environment variables for test automation.

3. Create the database connections and users using MariaDB and the DBeaver IDE.

4. Configure the workspace and the JDK to be used in Eclipse, and install the necessary plugins (SonarLint and CSVEdit).

5. Launch and install Lombok.

6. Create shortcuts to the most commonly used tools during development for easier access.

7. Import the development framework into Eclipse as a Maven Project, adding "[ArtifactId]-[Version]" in the "Name Template" section within the advanced import options.

8. Repeat the process to import the test project.

9. Create the databases and set up user permissions using the script provided in the workspace.

10. Create the launchers for Eclipse using the executable provided in the workspace's root folder called "create-launchers.cmd".

11. Execute the sample populator (#initial) launcher to populate the database.

12. Execute the runner launcher to start the application, which should then be running on localhost.

Then, for the creation of the group base project, we followed the guide in the **"S04-Getting Started"** document, in which we customized the base project to tailor it to our group. Finally, we created our repository on GitHub and uploaded our personalized project.

Conclusion

In conclusion, the preparation of the development environment was a structured and collaborative process, guided by the guidelines provided by the teachers. Although challenges were encountered during the process, such as configuring tools and customizing the base project, the team successfully overcame them through coordination and collaboration. The development environment is now properly configured and ready to be used in the project, ensuring a solid foundation for efficient, high-quality software development.

Bibliography

Document "S02-Getting Ready": February 18, 2025, [Virtual Instruction].

Document "S04-Getting Started": February 18, 2025, [Virtual Instruction].