**Set Up Report**

Acme Ans D01

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**Executive Summary**

This document outlines the process and results of configuring the development environment in accordance with the guidelines provided. The configuration was completed successfully, ensuring that all required software, tools, and frameworks are correctly installed and operational. The report details the preparation of the hardware and software, setup of the development workspace, installation of necessary tools, and validation of the setup. This ensures that our development team is ready to proceed with the project efficiently.

**Revision Table**

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| --- | --- | --- |
| **Revision No.** | **Date** | **Description** |
| 1.0 | 15/02/2025 | Initial Document Draft |
| 1.1 | 19/02/2025 | Document Structure |

**Introduction**

This report describes the configuration of the development environment for our project. It follows the structured approach outlined in the provided documentation, covering hardware and software preparation, installation of required tools, and validation of the setup. The goal of this configuration is to create a standardized, functional workspace that meets the project requirements. The document is structured as follows:

* The Development Configuration section details each step taken to complete the setup.
* The Conclusions section reflects the readiness of the environment.
* The Bibliography section lists relevant references if applicable.

**Development Configuration**

*Hardware Preparation:*

The machine used meets the minimum required specifications:

* Processor: Intel(R) Core(TM) i7-10710U CPU @ 1.10GHz 1.61 GHz
* RAM: 16 GiB
* Storage: 1 TiB SSD

*Software Setup:*

* Installed Windows 11 Home

*Development Workspace:*

Download the files provided on the subject page and they were unzipped with the help of "7-Zip File Manager" creating the "Workspace-25" folder where the necessary folder structure was included with the files "Frameworks", "Project", "Starters", “Scrapbook” and "Tools".

Verified the presence of essential scripts, configuration files, IDEs and infrastructures.

*Tool Installation:*

1. **Java Development Kit (JDK):** Installed and configured system variables (PATH, JAVA\_HOME):

I accessed the system properties by going to the environment variables and added the "bin" folder from the Workspace JDK making sure it was added to the top of the list. Then update the system variable "JAVA\_HOME" by adding the folder path of the provided JDK.

1. **Firefox & Gecko Driver:** Installed for web-based testing and automation.

I installed the Firefox app provided from the Workspace and updated my “PATH” system variable with the Firefox folder and the Gecko driver folder.

1. **MariaDB & DBeaver:** Set up database connections and verified functionality.

I went to the "mariadb-11.4.4" folder and ran the "setup-mariadb.cmd" script. Then I opened the DBeaver application and created a new Database connection with the connection type "MariaDB". After finishing with the installation of the database connection it asked me to install MariaDB drivers and to finish I went through the previous steps to create the "acme-user" connection again

1. **Eclipse IDE & Plugins:** Installed Eclipse JEE, Lombok, CSVEdit, and Sonar’s Lint.

I launched the Eclipse IDE by selecting the "Workspace-25" folder as workspace. Inside the workspace I imported the file "Acme-Eclipse-Preferences.epf" into the "Scrapbook" folder. After that I installed the plug-ins by adding the CSVEdit and Sonar's Lint folders as a local repository.

1. **Configuration & Validation:**

I configured the installed JRE by deleting the existing one in the workspace and adding the new JRE by putting the workspace folder with the JDK as a path. In addition, I added the compiler compliance level to 21.

Close the Eclipse and launch "Lombok-installer.jar" specifying the location of Eclipse in the workspace.

*Project Preparation:*

First, I copied the project "Hello-World-25.1.0", located in the "Starters" folder, over the "Projects" folder and renamed both the folder to "Acme-ANS-D01" and the file information pom.xml setting the name of the indicated project and created the launchers for the project by running the provided script. I reopened the Eclipse workspace and imported the "Acme-Framework-25.1.0" framework resolving the warnings that were coming out and imported the project.

Then, create the databases by running the script provided in the DBeaver application using the name of the databases as the name of the project.

Having both the project and the databases ready, I was able to successfully execute the population launchers to validate the correct operation of the database and start the application.

**Conclusions**

The development environment has been successfully configured and verified. All required tools and frameworks are operational, ensuring readiness for project development. The consistency in setup across the team guarantees a smooth workflow and minimizes potential compatibility issues. Moving forward, the team can focus on coding and implementation, knowing the foundational setup is complete.

**Bibliography**

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