## Deployment Documentation

Installation Manual

This document provides a step-by-step guide to install, configure, and run the Java Console-Based E-Commerce Platform.

Prerequisites

Before you begin, ensure you have the following installed on your machine:

1. Java Development Kit (JDK): You can download it from:

[Oracle JDK Downloads (https://www.oracle.com/java/technologies/javase-downloads.html).

1. PostgreSQL Database: Ensure you have PostgreSQL installed and running. You can download it from:

[PostgreSQL Downloads] (https://www.postgresql.org/download/).

1. Git: Ensure you have Git installed for version control. You can download it from:

[Git Downloads] (https://git-scm.com/downloads).

1. IDE: Any preferred Java IDE (our preference is VS Code)

Step-by-Step Installation Guide

1. Clone the Repository

* Open your terminal or command prompt.
* Clone the repository using Git:
* git clone <repository\_url>

1. Navigate to the project directory:

* cd <project\_directory>

1. Set Up the PostgreSQL Database

- Create a Database:

- Open the PostgreSQL command-line interface (psql) or use a GUI tool like pgAdmin.

- Create a new database:

* CREATE DATABASE ecommerce\_db;

4. Run SQL Scripts:

- In the project directory, locate the `database` folder containing SQL scripts.

- Execute the provided SQL scripts to create and populate the necessary tables:

* + - psql -U <your\_username> -d ecommerce\_db -f database/schema.sql
    - psql -U <your\_username> -d ecommerce\_db -f database/data.sql

5. Configure Database Connection

- Open the project in your preferred Java IDE.

- Locate the database configuration file

-Update the database URL, username, and password to match your PostgreSQL setup.

* db.url=jdbc:postgresql://localhost:5432/ecommerce\_db
* db.username=your\_username
* db.password=your\_password

1. Build the Project -In your IDE, build the project to compile the source code. This step may vary depending on your IDE:

-IntelliJ IDEA: Use the "Build" menu and select "Build Project".

- Eclipse: Use the "Project" menu and select "Build All".

- VS Code: Use the terminal to run:

* javac -d bin src/\*\*/\*.java

1. Run the Application

-In your IDE, locate the main class (e.g., `Main.java` ).

-Run the main class to start the application. This step may vary depending on your IDE:

* IntelliJ IDEA: Right-click the main class and select "Run".
* Eclipse Right-click the main class and select "Run As" > "Java Application".
* VS Code: Use the terminal to run: java -cp bin Main

1. Interact with the Application

-The application will start in the console.

-Follow the on-screen prompts to register, log in, and perform various actions based on your role (buyer, seller, or admin).

Troubleshooting

1.Database Connection Issues:

- Ensure your PostgreSQL server is running.

- Verify the database URL, username, and password in the configuration file.

2.Compilation Errors:

- Ensure all dependencies are correctly set up in your IDE.

- Check for any missing or incorrect import statements.

3.Runtime Errors:

- Review the console output for error messages.

- Ensure all required tables and data are present in the database.

Additional Notes

- Make sure to periodically pull updates from the repository to stay up-to-date with any changes or bug fixes.

- If you encounter any issues that you cannot resolve, refer to the project documentation.

*By following these steps, you should be able to successfully install, configure, and run our Java Console-Based E-Commerce Platform.*