

# Project Proposal and Budget:

## E-commerce Orders API

**To:** Client

**From:** Jared Alexander Trujillo Ortiz

**Date:** October 19, 2025

### 1. Project Summary

The objective of this project is to develop a robust, secure, and scalable RESTful API using Spring Boot to manage the order system for the e-commerce platform. The final solution will be of professional quality, fully documented, and ready for deployment in a production environment.

### 2. Scope and Deliverables

The client will receive the following functional and documentary deliverables upon project completion:

- **Functional Base Project:** A complete Spring Boot project with a clean and sustainable architecture.
- **REST Controller for Orders:** Endpoints to perform all CRUD (Create, Read, Update, Delete) operations on orders and their line items.
- **Complete Documentation (README.md):** A detailed README.md file with clear instructions on how to set up the environment, build the project, and run the application.
- **Production Startup Script (start.sh):** A script to facilitate the deployment and execution of the application on a Linux server.
- **Postman Collection:** A postman\_collection.json file so the client can easily test each of the API endpoints manually.
- **Environment Profiles:** Separate and clearly defined configuration files for development (dev), testing (test), and production (prod) environments.
- **Secure Credential Management:** Implementation of environment variables for production database credentials, avoiding the exposure of sensitive information in the code.
- **API Documentation (Swagger):** Integration of springdoc-openapi to generate an interactive user interface (Swagger UI) that automatically documents all available endpoints.
- **Test Suite (JUnit 5):** A set of unit and integration tests to validate business logic and controller functionality, ensuring code quality and reliability.

- **Centralized Error Handling:** A global exception handler to ensure that all API errors return consistent and clear JSON responses.

### 3. Estimated Timeline

The total estimated time for the completion and delivery of all project components is **1 to 2 weeks**, starting from the receipt of the initial payment.

### 4. Project Investment (Budget)

The project cost is calculated based on the estimated work hours and a professional rate. The cost structure is as follows:

Item	Detail
Estimated Development Hours (Sprints 1-3)	23 hours
Contingency, Communication & Revisions (30%)	7 hours
<b>Total Billable Hours</b>	<b>30 hours</b>
Hourly Rate	\$650.00 MXN
<b>Total Project Cost (VAT not included)</b>	<b>\$19,500.00 MXN</b>

### 5. Payment Terms

To ensure the commitment of both parties, the payment will be structured as follows:

- **50% Deposit: \$9,750.00 MXN** to begin the project.
- **50% on Final Delivery: \$9,750.00 MXN** upon delivery of all mentioned deliverables and with the client's approval.

### 6. Next Steps

To begin the project development, a formal approval of this quote and the payment of the 50% deposit are required.

I appreciate the opportunity and your trust. I am available to answer any questions you may have.

**Sincerely,**

Jared Alexander Trujillo Ortiz

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