### Deliverables

#### 1. Test Plan Document

**Description**: This document details the strategy and approach for the tests conducted in the QA challenge. It includes the scope, objectives, required resources, identified risks, and expected deliverables.

**Content**:

* **Scope**: Defines the areas covered by the test plan, both for the backend and the frontend.
* **Objectives**: Identifies the key objectives of the testing process.
* **Resources**: Lists the tools, environments, and datasets necessary to carry out the tests.
* **Risks**: Details potential risks and mitigation strategies.
* **Deliverables**: Specifies what will be delivered at the end of the testing process.

#### 2. Test Cases

**Description**: Detailed documentation of all test cases designed for the backend and frontend of the application.

**Content**:

* **Backend**:
  + **User Authentication**: Test cases for user login, error handling, and token generation and expiration.
  + **Product Management**: Test cases for product creation, reading, updating, and deletion (CRUD), error handling, and search and filter functionalities.
  + **Order Processing**: Test cases for order creation, cancellation, and updating, and error handling for invalid order operations.
* **Frontend**:
  + **User Authentication and Dashboard**: Test cases for login and logout functionalities, viewing and updating user data on the dashboard, and ensuring UI responsiveness and accessibility.
  + **Product Listing and Order Processing**: Test cases for product listing and filtering, order creation, updating, and cancellation, and ensuring UI responsiveness and accessibility.

#### 3. Test Execution Report

**Description**: Documents the results of the tests executed, including any defects found during the process.

**Content**:

* **Test Results**: Records the results of each test executed, indicating whether they passed or failed.
* **Defect Report**: Includes detailed descriptions of any defects found, steps to reproduce them, and their severity.

**Example of Test Execution Documentation**:

**User Authentication**:

* Login with valid credentials: Passed.
* Login with invalid credentials: Failed - Incorrect error handling.
* Token generation and expiration: Passed.

**Product Management**:

* Create product: Passed.
* Read product: Passed.
* Update product: Failed - Error updating price.
* Delete product: Passed.
* Product search and filter: Passed.

**Order Processing**:

* Create order: Passed.
* Cancel order: Failed - Error updating status.
* Update order: Passed.
* Error handling in invalid orders: Passed.

**Frontend**:

* Login and logout: Passed.
* Viewing and updating user data on the dashboard: Passed.
* UI responsiveness and accessibility: Passed.
* Product listing and filtering: Passed.
* Order creation, updating, and cancellation: Failed - Error canceling order.

**Additional Notes**:

* Screenshots of the results and errors are included in the corresponding folder.
* Tests were conducted using Google Chrome and the Swagger documentation available at http://localhost:5044/swagger/index.html.