**Objectives**

**General Objective**

The main objective of this test plan is to ensure that both the backend and frontend of the sample application function correctly, handle errors properly, and meet all specified requirements.

**Specific Objectives**

1. **Validate User Authentication**
   * Ensure users can log in and log out correctly with valid credentials.
   * Verify that the system properly handles login attempts with invalid credentials.
   * Check the correct generation and expiration of authentication tokens.
2. **Test Product Management**
   * Verify that the CRUD (Create, Read, Update, Delete) operations on products work as expected.
   * Ensure the system handles errors properly when invalid product data is provided.
   * Check the product search and filtering functionalities.
3. **Evaluate Order Processing**
   * Ensure new orders can be created and order details are verified correctly.
   * Verify that order cancellation and status updates work as expected.
   * Check that the system handles errors properly in order operations.
4. **Evaluate the Frontend (ReactJS)**
   * Ensure the login and logout functionalities in the frontend work correctly.
   * Verify that user data is displayed and updated correctly on the dashboard.
   * Check the responsiveness and accessibility of the user interface in the frontend.
   * Ensure the product listing and order processing functionalities in the frontend work correctly.
5. **Document and Report Results**
   * Record the results of all executed tests, including both successful and failed cases.
   * Document any defects found during testing with detailed descriptions and steps to reproduce.
   * Provide comprehensive test reports reflecting the status of the performed tests.