**Scope**

**1. Backend (APIs in C#)**

* User Authentication
* Product Management
* Order Processing

**2. Frontend (ReactJS)**

* User Authentication and Dashboard
* Product Listing and Order Processing

**Description**

The test plan covers the testing of both backend and frontend components of the sample application. The backend is composed of RESTful APIs built with C#, and the frontend is developed using ReactJS. This test plan aims to ensure the functionalities work as expected, handle errors gracefully, and meet the defined requirements.

**Areas Covered**

**Backend (APIs in C#)**

1. **User Authentication**
   * User login with valid credentials.
   * Error handling for invalid login attempts.
   * Token generation and expiration.
2. **Product Management**
   * Create, read, update, and delete (CRUD) operations for products.
   * Error handling for invalid product data.
   * Product search and filtering functionalities.
3. **Order Processing**
   * Creating new orders and verifying order details.
   * Canceling orders and updating order status.
   * Error handling for invalid order operations.

**Frontend (ReactJS)**

1. **User Authentication and Dashboard**
   * User login and logout functionalities.
   * Display and update user data on the dashboard.
   * Ensuring responsiveness and accessibility of the user interface.
2. **Product Listing and Order Processing**
   * Displaying and filtering product listings.
   * Creating, updating, and canceling orders.
   * Ensuring responsiveness and accessibility of the user interface.