#### **Project Documentation**

This document provides a step-by-step guide on how to start the Micro Frontend Developer project. The project is designed with a Micro Frontend architecture, where each micro frontend module operates independently.

# **Project Folder Structure**

In the root directory of the project, you'll find the following folders:

- ecommerce: Main application (to run on port 3000)
- **order-history**: Micro frontend for listing order history (to run on port 3004)
- **product-listing**: Micro frontend for listing products (to run on port 3001)
- server: Server-side application (to run on port 5000)
- **shopping-cart**: Micro frontend for shopping cart functionality (to run on port 3002)
- user-auth: Micro frontend for user authentication (to run on port 3003)

# **Steps to Start the Project**

Each micro frontend and server application should be run in a separate terminal, and all packages must be installed using npm install in each project. Follow these steps to start the project:

#### 1. Server

- o In the terminal, navigate to the server folder in the root directory: cd server
- To start the server, run the following command: node server.js
- Description: The server application provides the necessary APIs for user authentication and order processing.

# 2. Product Listing - Micro Frontend

- Open a new terminal and navigate to the product-listing folder: cd product-listing
- To start the application, run the following command: npm start
- Port: 3001

### 3. User Auth - Micro Frontend for User Authentication

Open a new terminal and navigate to the user-auth folder: cd user-auth

 To start the application, run the following command: npm start

o **Port**: 3003

o **Description**: This micro frontend handles user authentication.

## 4. Shopping Cart - Micro Frontend

- Open a new terminal and navigate to the shopping-cart folder: cd shopping-cart
- To start the application, run the following command: npm start

o **Port**: 3002

o **Description**: This micro frontend provides shopping cart functionality.

## 5. Order History - Micro Frontend

- Open a new terminal and navigate to the order-history folder: cd order-history
- To start the application, run the following command: npm start

o **Port**: 3004

o **Description**: This micro frontend displays the order history.

#### 6. Ecommerce - Main Application

- Open a new terminal and navigate to the ecommerce folder: cd ecommerce
- To start the application, run the following command: npm start

o **Port**: 3000

o **Description**: The main application integrates all micro frontend components.

#### **Notes**

- Ensure that each micro frontend component runs on its assigned port.
- The main ecommerce application should be started only after all other micro frontend components are up and running.
- If there are any errors or missing dependencies, run npm install in the relevant folder to install missing dependencies.