






# Project Status by User Persona

This document outlines the current functionality of the e-commerce backend, broken down by user role. At this stage, all core features outlined in the initial requirements are **complete**.




## Admin (Alex)

-  **User Management:** Can create staff accounts (Product Manager, Order Manager, etc.) and change any user's role.
-  **Approval Authority:** Can review and approve/deny coupons submitted by the Product Manager.
-  **Platform Analytics:** The dashboard for viewing total sales, total orders, and top-selling products is now built.



## Product Manager (Priya)

-  **Product Catalog Management:** Can create, read, update, and deactivate products.
-  **Promotions:** Can create coupons, which are then correctly sent to an Admin for approval.



## Order Manager (Omar)




-  **Order Tracking:** Can view a list of all orders in the system and see detailed information for any specific order.
-  **Order Fulfillment:** Can update an order's status through its lifecycle ( Processing , Dispatched , Delivered ).
-  **Returns & Exchanges:** Can raise a refund ticket for the finance team after a customer has returned an order.

## Finance Manager (Fiona)

-  **Refund Management:** Can view a queue of refund request tickets and process them (Approve/Deny). Approved refunds update the order status to "Refunded".
-  **Financial Analysis:** The dashboard for viewing sales, revenue, etc., is now built.

## Customer (Chris)

-  **Account Management:** Can register, log in, log out, view their profile, add shipping/billing addresses, and view their list of addresses.
-  **Shopping:** Can view the list of all products and see details for a single product.

-  **Purchasing:** Can place a complete order with products and an optional coupon.
-  **Order History:** Can view a complete history of all past orders.
-  **Returns:** Can request a return for an order that has the "Delivered" status.

## Backend API Documentation

Here is the documentation for all currently working API endpoints.

### Authentication Endpoints

Method & Endpoint	Description	Access
POST /auth/register	Registers a new user as a <b>Customer</b> .	Public
POST /auth/login	Logs in any user to get an access token.	Public
POST /auth/logout	Logs out an authenticated user.	Any authenticated user

### User & Profile Management Endpoints

Method & Endpoint	Description	Access
POST /users	<b>(Admin)</b> Creates a new user with a specified role.	<b>Admin</b>
PATCH /users/:id/role	<b>(Admin)</b> Updates the role of an existing user.	<b>Admin</b>
GET /users/me	<b>(Customer)</b> Gets the profile of the logged-in user.	Any authenticated user
POST /users/me/addresses	<b>(Customer)</b> Adds a new address for the logged-in user.	Any authenticated user
GET /users/me/addresses	<b>(Customer)</b> Gets all addresses for the logged-in user.	Any authenticated user

### Product Management Endpoints

Method & Endpoint	Description	Access
GET /products	Retrieves a list of all active products.	Public
GET /products/:id	Retrieves a single product by its ID.	Public
POST /products	Creates a new product.	<b>Admin, Product Manager</b>

Method & Endpoint	Description	Access
PATCH /products/:id	Updates an existing product's details.	<b>Admin, Product Manager</b>
DELETE /products/:id	Deactivates a product (soft delete).	<b>Admin</b>

## Order & Return Workflow Endpoints

Method & Endpoint	Description	Access
POST /orders	<b>(Customer)</b> Creates a new order.	Any authenticated user
GET /orders	<b>(Customer)</b> Gets the logged-in user's order history.	Any authenticated user
POST /orders/:id/return-request	<b>(Customer)</b> Requests a return for a delivered order.	Any authenticated user
GET /orders/all	<b>(Manager)</b> Gets a list of all orders in the system.	<b>Admin, Order Manager</b>
GET /orders/:id/details	<b>(Manager)</b> Gets detailed info for a single order.	<b>Admin, Order Manager</b>
PATCH /orders/:id/status	<b>(Manager)</b> Updates the status of an order.	<b>Admin, Order Manager</b>
POST /orders/:id/raise-refund	<b>(Manager)</b> Raises a refund ticket for a returned order.	<b>Admin, Order Manager</b>

## Coupon, Ticket & Refund Workflow Endpoints

Method & Endpoint	Description	Access
POST /coupons	<b>(Manager)</b> Creates a new coupon and a ticket for approval.	<b>Admin, Product Manager</b>
GET /tickets	<b>(Admin)</b> Retrieves all open tickets of any type.	<b>Admin</b>
PATCH /tickets/coupon/:ticketId	<b>(Admin)</b> Approves or denies a coupon approval ticket.	<b>Admin</b>
GET /tickets/refunds	<b>(Finance)</b> Retrieves a list of open refund request tickets.	<b>Admin, Finance Manager</b>
PATCH /tickets/refund/:ticketId	<b>(Finance)</b> Approves or denies a refund request ticket.	<b>Admin, Finance Manager</b>

# Analytics Endpoints

Method & Endpoint	Description	Access
GET /analytics/dashboard	(Admin/Finance) Gets key dashboard analytics.	Admin, Finance Manager