## **KEY FEATURES**

- Product Browsing:
  - · Advanced filtering and sorting options.
  - High-resolution product images with 360° views.
- User Authentication:
  - Secure sign-up/login process.
  - Role-based user management.
- Shopping Cart:
  - Persistent cart storage.
- Order Management:
  - End-to-end order tracking.
  - · Notifications for order status.
- Secure Payments
  - Multiple payment gateways.
  - PCI-DSS compliance.



# PLATFORM WORKFLOW

### - USER JOURNEY-

- Adds selected items to the cart.
- Check Validation of Stock Availibility

- Chooses a payment method.
- Completes payment via secure gateway.

User Browses Products

**Adds to Cart** 

- Advanced search functionality with filters (e.g., price, category, stock).
- Detailed product view with descriptions and availability.

- Proceeds to Checkout
- Payment Processing

Order

- If logged in, directed to the checkout page.
- Fills in delivery address.
- Views delivery charges for available services.
- Selects a delivery option.

- Order is generated after successful payment.
- User receives an order confirmation

# **API ENDPOINTS**

#### PRODUCT APIS:

- GET /api/products
  - Fetches all products with filters.
- GET /api/products/:id
  - Retrieves details of a single product.

#### **CART API:**

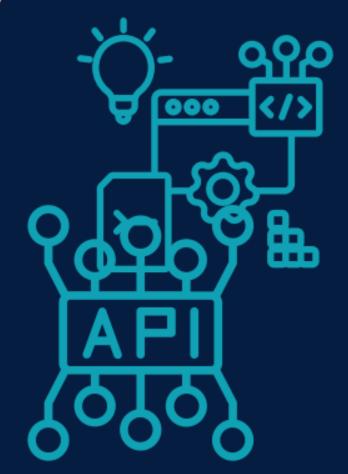
- PUT /api/cart/validate-stock
  - Validates stock availability for all items in the cart before checkout.

#### SHIPMENT AND PAYMENT APIS:

- POST /api/shipment/calculate
  - Calculates delivery charges based on the address and service selected.
- POST /api/payment/process
  - Processes payment securely and confirms the transaction.

#### **ORDER API:**

- POST /api/orders
  - Generates a new order after payment is confirmed.
  - Includes delivery details, selected service, and payment status.



- GET /api/orders
  - Get all order of the login user for history

### SYSTEM ARCHITECTURE DIAGRAM

