

1. User Management APIs

- **Register User:** Create a new user account.
POST /api/users/register
 - **Login:** Authenticate user credentials.
POST /api/users/login
 - **Logout:** End user session.
POST /api/users/logout
 - **Get User Profile:** Fetch user details.
GET /api/users/{userId}
 - **Update User Profile:** Update user information.
PUT /api/users/{userId}
 - **Forgot Password:** Initiate password recovery process.
POST /api/users/forgot-password
 - **Reset Password:** Update password using token.
POST /api/users/reset-password
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2. Product Management APIs

- **Get Products:** Retrieve a list of products with filters.
GET /api/products
 - **Get Product Details:** Fetch detailed information about a single product.
GET /api/products/{productId}
 - **Create Product (Admin):** Add a new product.
POST /api/products
 - **Update Product (Admin):** Edit product details.
PUT /api/products/{productId}
 - **Delete Product (Admin):** Remove a product.
DELETE /api/products/{productId}
 - **Get Product Categories:** Retrieve product categories.
GET /api/products/categories
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3. Search and Navigation APIs

- **Search Products:** Perform a search across products.
GET /api/products/search?q={query}
 - **Filter Products:** Retrieve filtered product lists.
GET /api/products/filter?category={category}&priceRange={range}
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4. Shopping Cart and Checkout APIs

- **Add to Cart:** Add a product to the cart.
POST /api/cart

- **Get Cart Items:** Retrieve items in the cart.
GET /api/cart
 - **Update Cart Item:** Modify item quantity in the cart.
PUT /api/cart/{cartItemId}
 - **Remove Cart Item:** Delete an item from the cart.
DELETE /api/cart/{cartItemId}
 - **Checkout:** Proceed with order checkout.
POST /api/checkout
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5. Order Management APIs

- **Create Order:** Place an order.
POST /api/orders
 - **Get Order Details:** Fetch details of a specific order.
GET /api/orders/{orderId}
 - **Get User Orders:** Retrieve a user's order history.
GET /api/orders/user/{userId}
 - **Cancel Order:** Cancel an order.
PUT /api/orders/{orderId}/cancel
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6. Payment APIs

- **Initiate Payment:** Start a payment process.
POST /api/payments/initiate
 - **Confirm Payment:** Verify payment success.
POST /api/payments/confirm
 - **Refund Payment:** Process refunds for eligible orders.
POST /api/payments/refund
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7. Shipping and Delivery APIs

- **Add Shipping Address:** Save a delivery address.
POST /api/shipping-address
 - **Get Shipping Address:** Retrieve user shipping addresses.
GET /api/shipping-address/user/{userId}
 - **Track Order:** Get tracking status for an order.
GET /api/shipping/track/{trackingId}
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8. Reviews and Feedback APIs

- **Add Product Review:** Submit a product review.
POST /api/reviews
 - **Get Product Reviews:** Fetch reviews for a specific product.
GET /api/reviews/product/{productId}
 - **Report Issue:** Submit customer support tickets.
POST /api/support
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9. Promotions and Marketing APIs

- **Apply Discount Code:** Validate and apply a coupon code.
POST /api/promotions/apply
 - **Get Active Promotions:** Retrieve all active discounts and offers.
GET /api/promotions
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10. Admin APIs

- **Dashboard Stats:** Fetch analytics data for admin.
GET /api/admin/dashboard
 - **Manage Users:** Retrieve, update, or delete user accounts.
GET /api/admin/users PUT /api/admin/users/{userId} DELETE /api/admin/users/{userId}
 - **Manage Products:** Perform CRUD operations for products.
POST /api/admin/products PUT /api/admin/products/{productId} DELETE /api/admin/products/{productId}
 - **View Orders:** Fetch all orders for review.
GET /api/admin/orders
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11. Analytics and Reporting APIs

- **Sales Report:** Generate sales data.
GET /api/reports/sales
 - **Customer Insights:** Retrieve customer behavior data.
GET /api/reports/customers
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12. Security APIs

- **Enable 2FA:** Activate two-factor authentication.
POST /api/security/enable-2fa
- **Verify 2FA Code:** Validate 2FA code during login.
POST /api/security/verify-2fa

