

# 1) DATABASE SCHEMA:-

Tables / Collection

## a) Products:

- Id.
- Name.
- Description.
- Price.
- Images.
- Tags.
- Stock quantity.
- Categories.
- Ratings.
- Created at.
- Updated at.

## b) Categories:

- Id
- Name
- Parent - Category

## c) Users:

- Id
- Name

- email.
- role.
- Password.
- created at.
- Updated at.

#### d) Orders:

- Id.
- Name.
- User id.
- Order date.
- Status.
- total amount.

#### e) Shipments:

- Id.
- Order id.
- tracking id.
- Shipment status.
- Carrier.

#### f) Reviews:

- Id.

- Product Id.
- User Id.
- Rating.
- Comment.
- Created at.

## 2) FEATURES:

### Admin Panel:

#### a) Product Management:

- Add, edit, delete products.
- Bulk upload via CSV or JSON.
- Manage stock and discounts.

#### b) Category Management:

- Create nested categories.
- Update or delete categories.

#### c) Order Management:

- View and update order statuses.
- Manage shipments and tracking.

#### d) User Management:

- View customer details.
- Assign roles (e.g admin, moderator).

e) Review Management:

e) Review Moderation:

- Approve or reject user reviews.

3) USER INTERFACE:

a) Home Page:

- Display featured products, categories and offers.

b) Product Page:

- Show detailed product information.
- Add to cart and wishlist functionality.

c) Cart and Checkout:

- Manage cart items.
- Secure checkout process.

d) Order Tracking:

- View order and shipment details.

3) API ENDPOINTS:

a) For Products:

- GET /api/Products.

- POST / api / Products.
- PUT / api / Products.
- DELETE / api / Products.

### b) for Categories:

- GET / api / Categories.
- POST / api / Categories.

### c) for Orders:

- GET / api / Orders.
- POST / api / Orders.

## 4) FRONTEND IMPLEMENTATION: Tech Stack:

- Frontend.
- Styling.

## 5) DEPLOYMENT:

- Frontend.
- Backend.
- CMS.

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## CONCLUSION:-

The project delivers a comprehensive e-commerce platform combining user-focused features with robust backend functionality to create a reliable and efficient shopping solution.



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# "DATA FLOW DIAGRAM"

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