**eCommerce Project Requirements**

**Project Title:**

1. MyCart – A Simple Online Shopping Website
2. ShopEase – User-Friendly eCommerce Platform
3. Trendify – Online Fashion Store
4. EcoMart – A Green Products eCommerce Site
5. QuickBuy – Lightweight eCommerce Web App
6. GadgetStore – Electronics eCommerce Platform
7. BookBazaar – Online Bookstore Website
8. FreshBasket – Online Grocery Delivery App
9. CraftVilla – Handmade Crafts Marketplace
10. EduMart – Academic Books & Stationery Store

**Objective:**

Build a full-stack eCommerce web application where users can browse products, manage their cart, place orders, and view order history. Admins can manage products and orders.

**Team:**

* Solo or group (up to 5 students)

**Tech Stack Suggestions:**

* **Frontend:** HTML, CSS, JavaScript, React
* **Backend:** Node.js + Express.js
* **Database:** MongoDB
* **Authentication:** JWT

**Core Modules & Features**

**1. User Module**

* Signup/Login (with validation)
* Password encryption (e.g., bcrypt)

**2. Product Module**

* Product listing

**3. Cart Module**

* Add to cart
* Update quantity / remove item
* Cart total calculation

**4. Order Module**

* Place order (after login)
* View previous orders
* Order summary with products, date, total

**5. Admin Panel (secured)**

* Login as admin
* CRUD products
* View all orders
* Change order status (e.g., Pending → Shipped)

**Functional Requirements**

| **Functionality** | **Users** | **Admin** |
| --- | --- | --- |
| Register/Login | ✔ | ✔ |
| View Products | ✔ | ✔ |
| Search/Filter | ✔ | ✔ |
| Add to Cart | ✔ | ✘ |
| Place Order | ✔ | ✘ |
| View Orders | ✔ | ✔ |
| Manage Products | ✘ | ✔ |
| Update Order Status | ✘ | ✔ |

**Deliverables**

1. Source code (GitHub)
2. Host both frontend and backend in Vercel
3. Demo/Presentation