

## I built an E-commerce website & API with Nodejs, Express and MongoDB with customizations



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<u>development</u>

An eCommerce website built with Node.js, Express, and MongoDB is a web application designed to facilitate online shopping, where users can browse products, add items to their cart, place orders, and make payments. The website typically has a backend API developed using Node.js and Express, with MongoDB as the database to store and manage data.

## **Key Components:**

**Node.js:** A JavaScript runtime that allows you to build server-side applications. It's known for its non-blocking, event-driven architecture, making it suitable for building scalable web applications, including eCommerce platforms.

Express.js: A lightweight and flexible Node.js framework that provides robust features for

building web applications. It simplifies the development of server-side logic, routing, and middleware integration.

**MongoDB:** A NoSQL database that stores data in a flexible, JSON-like format called BSON. MongoDB is well-suited for eCommerce platforms because it can handle large amounts of unstructured data, such as product details, user information, and order histories.

## **Key Features of an eCommerce Website:**

**Product Catalog:** A comprehensive listing of products, including details like name, description, price, images, categories, and stock availability. Ability to search, filter, and sort products based on various criteria.

**User Authentication:** Registration and login functionality, allowing users to create accounts, log in securely, and manage their profiles. Password encryption and JWT (JSON Web Token) authentication for secure user sessions.

**Shopping Cart:** A feature that allows users to add products to a virtual shopping cart, update quantities, and remove items. Calculation of total cost, including taxes and shipping charges.

**Order Management:** Ability to place orders, view order summaries, and track order status. Integration with payment gateways (e.g., PayPal, Stripe) for processing payments securely.

**Admin Panel:** An administrative interface for managing products, categories, orders, and users. Ability to add, edit, and delete products, manage inventory, and view sales reports. **Restful API:** A set of API endpoints that allow the front end to interact with the backend services, such as retrieving product details, handling user authentication, managing the cart, and processing orders.



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#NodejsEcommerceDevelopment #ExpressjsOnlineStore #MongoDBforEcommerce
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