

Full-Stack Food Ordering Application

JS + React + Node + Express + MongoDB + Project

Master the complete MERN stack by building a real-world, production-ready food ordering application from the ground up. This course takes you through JavaScript, React, Node.js, Express, and MongoDB - module by module - until you emerge as an industry-ready full-stack developer.



Learn

Core concepts and modern best practices

Implement

Apply every concept directly in the project

Integrate

Connect frontend, backend, and database

Scale

Deploy a job-ready, real-world system



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What You Will Build & Achieve

Your Final Outcome

A complete, fully deployed food ordering system featuring a customer-facing storefront, a secure checkout with payment gateway, and a dedicated admin panel 4 all backed by a real REST API and MongoDB database.

- Complete food ordering system
- User + Admin panel
- Real-world architecture
- Job-ready portfolio project

Skills You Graduate With

→ **Strong JavaScript Foundation**
Modern ES6+ patterns used in every professional codebase

→ **Real-World React Development**
Components, state, routing, and protected pages

→ **Backend Expertise**
Node, Express, REST APIs, and MongoDB integration

→ **End-to-End Full-Stack Experience**
Frontend connected to backend connected to database - fully deployed



JavaScript Foundation & Modern ES6+

JavaScript Foundation for Full-Stack Development

- Variables (let, const)
- Data types (primitive & non-primitive)
- Functions & arrow functions
- Arrays & objects
- Basic DOM understanding

Project Usage

- Handling button clicks
- Managing food item data
- Writing reusable logic

Modern JavaScript (ES6+) for React & Backend

- Destructuring (arrays & objects)
- Spread & rest operators
- Template literals
- Array methods (map, filter)
- Modules (import, export)
- Async & sync execution
- Promises & async / await

Project Usage

- Rendering food lists
- Cart calculations
- API handling



React: Basics, State, Rendering & Components

React Basics & Project Setup

- What is React & SPA concept
- React project structure & JSX rules
- Functional components & reusability

Project: Homepage, Navbar, Food card components

React State & Events

- useState hook & event handling
- Passing data via props
- Re-rendering UI

Project: Add to cart, Increase/decrease quantity, Toggle menus

Rendering Lists & Filtering

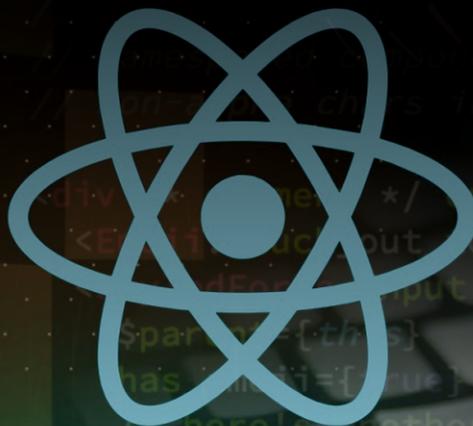
- Conditional rendering
- Rendering lists using map
- Dynamic filtering logic

Project: Category filter (Dessert, Noodles, etc.), Show all / specific food items

Component Structure

- Component separation
- Reusable layouts

Project: Navbar, Cart Icon, Footer, Admin Sidebar



Forms, Cart Logic & Navigation

🔒 Forms & Authentication UI

- Controlled inputs
- Form validation
- Password strength validation
- Conditional forms (Login / Signup)

Project Usage: Signup page, Login page, Error messages

🛒 Cart Logic & Global State Handling

- Managing shared state
- Updating quantities & removing items
- Price calculations

Project Usage: Cart page, Total price, Delivery charges

🧭 Navigation & Protected Pages

- Page navigation
- Route protection logic
- User login state

Project Usage: Checkout page access, Order pages only for logged-in users



Node.js, Express & API Architecture

🖥️ Node.js & Express Introduction

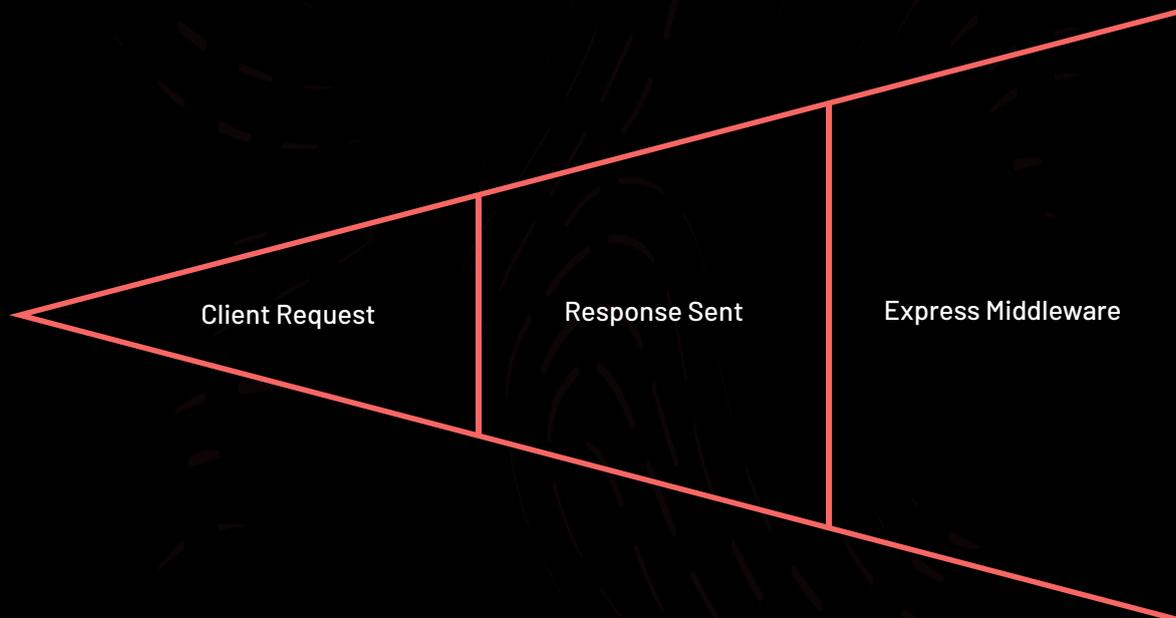
- What is Node.js & what is Express
- Server creation
- REST API basics
- Middleware concept

Project Usage: Backend server setup, API foundation

🔧 Express Routing & API Structure

- Routes & controllers
- Request & response lifecycle
- Error handling

Project Usage: User APIs, Food APIs, Order APIs



Every API in the project follows this lifecycle - from an incoming HTTP request, through Express middleware and route controllers, to a structured JSON response sent back to the frontend.

MongoDB, Database Integration & Authentication

MongoDB Fundamentals

- NoSQL database concept
- Collections & documents
- CRUD operations
- Data modeling

Project: Store users, food items, and orders



MongoDB with Backend Integration

- Connecting MongoDB with Node
- Schema design & Models
- Querying database

Project: Fetch food list, Add/delete food, Create orders



Authentication & Authorization (Backend)

- User registration & Login API
- Password encryption
- JWT Token based authentication
- Protected routes

Project: Secure login, Authenticated orders, Admin access control



Orders, Payments & Order Tracking

Cart & Order Backend Logic

- Order creation
- Calculating totals on backend
- Order status management

Project Usage: Save user orders, Track order status

Payment Gateway Integration

- Payment flow
- Secure transactions
- Payment success/failure handling

Project Usage: Online payment, Order confirmation after payment

User Order Tracking

- Fetch user-specific data
- Status updates & UI sync with backend

Project Usage: My Orders page, Processing → Delivered flow



Admin Panel: Food & Order Management

Admin Panel - Food Management

- Admin authentication
- CRUD operations from admin side
- Image upload logic

Project Usage: Add food items, Delete food items, Update menu dynamically

Admin Panel - Order Management

- Fetch all orders
- Update order status
- Real-time UI update

Project Usage: Change order status, Reflect status on user side



Admin Auth

Secure admin-only access



Image Upload

Dynamic food photo management



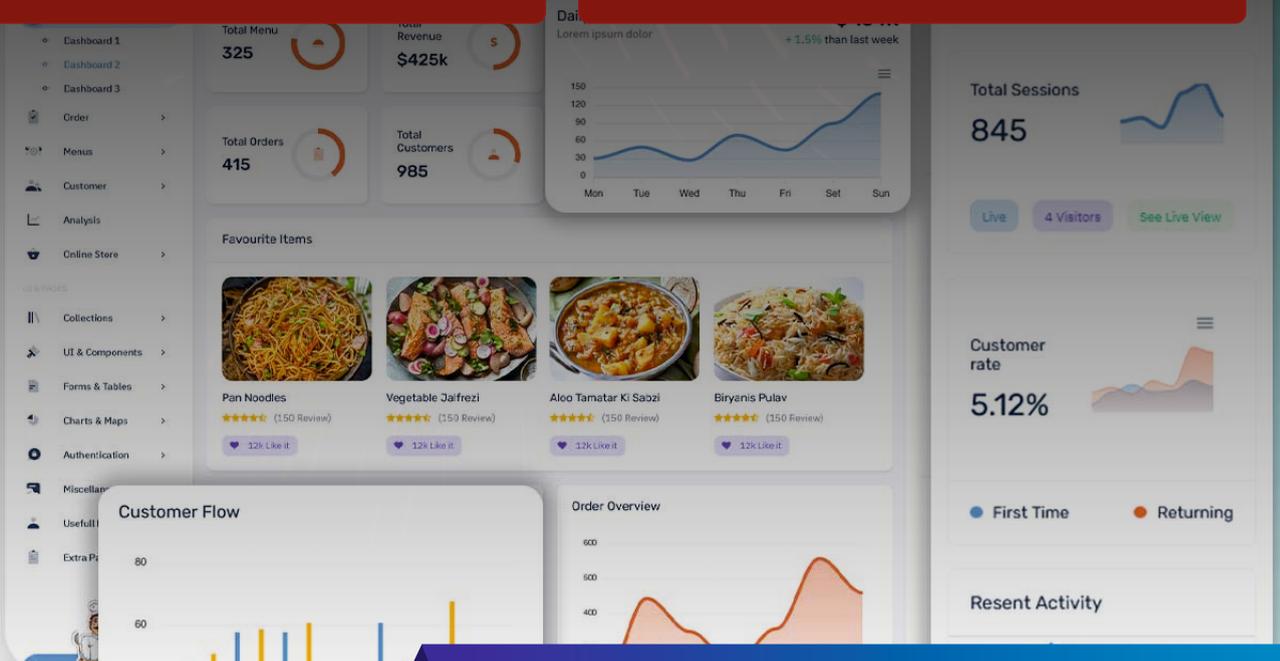
Order List

View and manage all orders



Live Status

Real-time status updates



Final Integration, Optimization & Deployment

- Frontend & backend integration
- Environment variables
- Error handling
- Production readiness
- Deployment basics

Final Outcome

- Complete food ordering system
- User + Admin panel
- Real-world architecture
- Job-ready project



20

Total Modules

Structured learning from zero to deployment



05

Core Technologies

JavaScript, React, Node, Express, MongoDB



01

Real Project

A fully deployed, production-grade application



100 %

Job Ready

Industry-standard skills from day one



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