

# ShopNow E-Commerce

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ShopNow is a **full-stack MERN application** that provides a simple e-commerce platform with:

- **Customer App** (React frontend)
- **Admin Dashboard** (React admin panel)
- **Backend API** (Express + MongoDB)

This project is designed for learning and as a starter template for small e-commerce apps.

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## Project Structure

```
shopnow-ecommerce/  
├── backend/  
│   ├── server.js      ← Backend API (Express + MongoDB)  
│   ├── package.json   ← Backend dependencies  
│   └── .env           ← Database config (local/dev)  
├── frontend/  
│   ├── src/App.js     ← Customer-facing app  
│   ├── package.json   ← React dependencies  
│   └── public/index.html ← HTML template  
└── admin/  
    ├── src/App.js     ← Admin dashboard app  
    ├── package.json   ← React dependencies  
    └── public/index.html ← HTML template
```

## Quick Setup

Follow these steps to run the project locally:

### **1** Create Project Folder

```
mkdir shopnow-ecommerce  
cd shopnow-ecommerce
```

### **2** Setup Backend

```
mkdir backend  
cd backend  
npm install --save-dev nodemon
```

- Copy your backend code into **backend/server.js**
- Add environment variables (see below)

### 3 Setup Frontend

```
cd ..  
npx create-react-app frontend  
cd frontend  
npm install lucide-react
```

- Copy your **customer app code** into **frontend/src/App.js**

### 4 Setup Admin Dashboard

```
cd ..  
npx create-react-app admin  
cd admin  
npm install lucide-react
```

- Copy your **admin dashboard code** into **admin/src/App.js**

### 5 Configure Environment Variables

Create **backend/.env**:

```
PORT=5000  
MONGODB_URI=mongodb://localhost:27017/shopnow
```

### 6 Run the Applications

Open **3 terminals**:

**Backend (port 5000):**

```
cd backend && npm run dev
```

**Frontend (port 3000):**

```
cd frontend && npm start
```

## Admin (port 3001):

```
cd admin && npm start
```

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## Access the Apps

- **Customer App** → <http://localhost:3000>
- **Admin Dashboard** → <http://localhost:3001>
- **Backend API** → <http://localhost:5000>

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## Tech Stack

- **Frontend & Admin:** React, Lucide Icons
- **Backend:** Node.js, Express, Mongoose, CORS, Dotenv
- **Database:** MongoDB





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## Features

- ☒ Customer-facing shopping UI
- ☒ Admin dashboard for product management
- ☒ REST API with Express & MongoDB
- ☒ Simple, modular structure for quick learning

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## Future Improvements

-  Authentication & Authorization (JWT)
-  Payment Gateway Integration
-  Order Management & Invoices
-  Analytics & Reporting

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## Author

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