

# ■ Vibe Commerce — Backend Documentation

**Tech Stack:** Node.js, Express.js, SQLite3, REST API

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**Project:** Full Stack Mock E-Commerce Cart (Backend)

## ■ Overview

This backend implements a mock e-commerce shopping cart API for the Vibe Commerce assignment. It demonstrates full CRUD functionality using Node.js (Express) and SQLite with RESTful endpoints.

The API handles:

- Product listing
- Cart management (add, update, remove)
- Checkout process (mock receipt generation)

All data is persisted in a local SQLite database (vibe.db).

## ■ ■ Tech Stack

Layer	Technology
Runtime	Node.js (v18+ or v20+)
Framework	Express.js
Database	SQLite3 (via sqlite3 npm package)
Tools	Nodemon (for auto-reload), Postman (for API testing)

## ■ Folder Structure

backend/

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■ ■ ■ server.js — Main entry file (Express setup)

■ ■ ■ db.js — SQLite connection + seed data

■ ■ ■ routes/

■ ■ ■ ■ products.js — Product routes (GET)

■ ■ ■ ■ cart.js — Cart routes (CRUD + Checkout)

■ ■ ■ vibe.db — SQLite database (auto-created)

■ ■ ■ package.json — Dependencies and scripts

■ ■ ■ package-lock.json — All Dependencies

## ■ Additional Features

- Automatic product seeding on first run
- Error handling with proper status codes
- Input validation (e.g., missing fields, invalid qty)
- Database persistence
- Modular Express route structure