

# Project Overview

**OnMarket Landing API** is a comprehensive e-commerce backend framework built with Node.js and Express.js. It provides a complete marketplace solution with multi-vendor support, affiliate marketing, payment processing, order management, and real-time chat functionality.

## Key Capabilities

- **Multi-vendor Marketplace:** Support for multiple stores with individual management
  - **Product Management:** Complete CRUD operations with variants, categories, and inventory
  - **Order Processing:** Full order lifecycle from cart to delivery tracking
  - **Payment Gateway:** Integrated with Xendit for multiple payment methods
  - **Affiliate Marketing:** 3-level referral system with commission tracking
  - **Shipping Integration:** GoSend instant delivery and other courier services
  - **Real-time Chat:** WebSocket-based customer-seller communication
  - **Virtual Accounts:** Automated payment collection via bank virtual accounts
  - **Review System:** Product reviews with media uploads
  - **CMS Features:** Content management for banners, categories, and promotions
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## Tech Stack

### Core Technologies

- **Runtime:** Node.js
- **Framework:** Express.js v4.21.0
- **Language:** JavaScript (ES6+)

### Databases

- **PostgreSQL:** Primary relational database (via Sequelize ORM v6.37.3)
- **MongoDB:** Document storage for chats, affiliate data, and caching (via Mongoose v8.6.3)
- **Redis:** Caching and session management (v4.7.0)

# Key Dependencies

## Web Framework & Middleware

- `express` - Web application framework
- `cors` - Cross-origin resource sharing
- `helmet` - Security headers
- `morgan` - HTTP request logger
- `express-validator` - Request validation
- `passport` - Authentication middleware

## Data Management

- `sequelize` - PostgreSQL ORM
- `mongoose` - MongoDB ODM
- `redis` - Redis client
- `pg` - PostgreSQL driver

## Authentication & Security

- `jsonwebtoken` - JWT token generation
- `jwt-decode` - JWT token decoding
- `passport-http` - HTTP authentication strategy
- `helmet` - Security middleware

## File Processing

- `multer` - File upload handling
- `minio` - Object storage (S3-compatible)
- `sharp` - Image processing
- `ffmpeg-static` & `fluent-ffmpeg` - Video processing
- `bwip-js` - Barcode generation

## Document Generation

- `pdfkit` - PDF generation
- `pdfmake` - Advanced PDF creation
- `exceljs` - Excel file generation

## External Integrations

- `xendit-node` - Payment gateway integration
- `axios` - HTTP client
- `nodemailer` - Email sending

- [socket.io](#) - WebSocket for real-time features

## Task Scheduling

- [node-cron](#) - Cron job scheduling
- [bull](#) - Job queue management

## Utilities

- [dayjs](#) - Date manipulation
- [lodash](#) - Utility functions
- [nanoid](#) - Unique ID generation
- [uuid](#) - UUID generation
- [ajv](#) - JSON schema validation
- [cli-color](#) - Console color output
- [dotenv](#) - Environment variable management

## API Documentation

- [@scalar/express-api-reference](#) - Interactive API documentation

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