

# Takealot-Style E-commerce Backend API

# Project Overview

- THIS PROJECT IS A BACKEND API FOR AN E-COMMERCE APP SIMILAR TO TAKEALOT.
- IT SUPPORTS USER AUTHENTICATION, PRODUCT MANAGEMENT, CART OPERATIONS, AND ORDER HANDLING.
- BUILT USING NODE.JS, EXPRESS.JS, AND MONGODB.

# Core Features

- - USER REGISTRATION & LOGIN
- - PRODUCT LISTINGS & MANAGEMENT
- - SHOPPING CART OPERATIONS
- - ORDER PLACEMENT & TRACKING
- - JWT-BASED AUTHENTICATION
- - MONGODB INTEGRATION

# Technology Stack

- - BACKEND: NODE.JS WITH EXPRESS.JS
- - DATABASE: MONGODB
- - AUTHENTICATION: JWT
- - PASSWORD HASHING: BCRYPTJS
- - ENVIRONMENT CONFIG: DOTENV

# Project Folder Structure

- TAKEALOT-CLONE-API/
  - |——— CONTROLLERS/
  - |——— MODELS/
  - |——— ROUTES/
  - |——— APP.JS
  - |——— CONFIG.JS
  - |——— PACKAGE.JSON

# Setup Instructions

- 1. CLONE THE REPOSITORY
- 2. RUN `NPM INSTALL` TO INSTALL DEPENDENCIES
- 3. SET ENVIRONMENT VARIABLES IN `.ENV` FILE:
  - - MONGO\_URI
  - - JWT\_SECRET
- 4. START THE SERVER WITH `NODE APP.JS`
- 5. API RUNS ON PORT 5000 BY DEFAULT

# API Endpoints

- /API/USERS/REGISTER - REGISTER USER
- /API/USERS/LOGIN - LOGIN USER
- /API/PRODUCTS - PRODUCT MANAGEMENT
- /API/ORDERS - ORDER HANDLING