

Node.js Project

Welcome to **E-Commerce API Endpoints** Project!

In this project, you will be working with a set of API endpoints designed to support various functionalities of an e-commerce platform. This project offers a fantastic opportunity for you to gain hands-on experience in building, and understanding the workings of a modern e-commerce system.

This project is designed to provide a hands-on learning experience, allowing you to apply your knowledge of web development concepts, HTTP protocols, RESTful APIs, and server-side programming. By working through the provided endpoints, you'll gain valuable insights into the complexities of building scalable and robust e-commerce solutions.

- **Authentication Endpoints:**
 - `/api/v1/register` (POST): Register a new user.
 - `/api/v1/login` (POST): Authenticate a user and generate a token.
- **User Profile Endpoints:**
 - `/api/v1/profile` (GET): Get current user's profile.
 - `/api/v1/profile` (PATCH): Update current user's profile.
- **Product Endpoints:**
 - `/api/v1/products` (GET): Get a list of products.
 - `/api/v1/products/:id` (GET): Get details of a specific product.
 - `/api/v1/products` (POST): Create a new product (admin only).

- `/api/v1/products/:id` (PATCH): Update details of a product (admin only).
- `/api/v1/products/:id` (DELETE): Delete a product (admin only).
- **Shopping Cart Endpoints:**
 - `/api/v1/cart` (GET): Get the current user's shopping cart.
 - `/api/v1/cart/add` (POST): Add a product to the shopping cart.
 - `/api/v1/cart/update/:productId` (PATCH): Update a product in the shopping cart.
 - `/api/v1/cart/remove/:productId` (DELETE): Remove a product from the shopping cart.
 - `/api/v1/cart/clear` (DELETE): Clear the entire shopping cart.
- **Order Endpoints:**
 - `/api/v1/orders` (GET): Get a list of orders (admin only).
 - `/api/v1/orders/:id` (GET): Get details of a specific order.
 - `/api/v1/orders` (POST): Place a new order.
 - `/api/v1/orders/:id/cancel` (PATCH): Cancel an existing order.
- **Payment Endpoints:**
 - `/api/v1/payment/checkout` (POST): Process payment for an order.
 - `/api/v1/payment/result` (POST): Receive result notifications for payment events (e.g., payment succeeded, failed). — bonus

- **Search and Filter Endpoints: - bonus**
 - `/api/v1/search (GET)`: Search for products based on certain criteria (e.g., name, category).
- **Reviews and Ratings Endpoints: - bonus**
 - `/api/v1/products/:id/reviews (GET)`: Get reviews for a specific product.
 - `/api/v1/products/:id/reviews (POST)`: Add a new review for a product.
 - `/api/v1/products/:id/ratings (POST)`: Add a rating for a product.
- **Category Endpoints:**
 - `/api/v1/categories (GET)`: Get a list of product categories.
 - `/api/v1/categories/:id/products (GET)`: Get products belonging to a specific category.
- **Admin Endpoints:**
 - `/api/v1/admin/users (GET)`: Get a list of all users (admin only).
 - `/api/v1/admin/orders (GET)`: Get a list of all orders (admin only).
 - `/api/v1/admin/products (GET)`: Get a list of all products (admin only).
 - `/api/v1/admin/categories (GET)`: Get a list of all categories (admin only).