

Backend Developer Technical Assignment – REST API & Payment Integration

Thank you for your interest in the Backend Developer position at our company. As part of our hiring process, please complete the following technical assignment.

Assignment Objective

Evaluate your experience with Node.js (Express or NestJS), REST API development, payment gateway integration, API testing using Postman, and backend deployment.

Preferred Tech Stack

- Node.js
- Express.js or NestJS
- Database: MongoDB / PostgreSQL / MySQL
- Payment Gateway: Stripe (test mode preferred) or equivalent
- Deployment: Vercel / Render / Railway or similar

Task Requirements

1. REST API Development

Build a RESTful backend for a simple e-commerce or subscription system.

- User registration and login (JWT authentication)
- Get logged-in user profile
- Create and list products or plans
- Create order and initiate payment
- Handle payment success/failure via webhook

2. Payment Integration

- Integrate a payment gateway (Stripe test mode acceptable)
- Implement payment intent or checkout session
- Handle webhooks and update order status
- Use environment variables for credentials

3. Postman Documentation

- Share a Postman collection with all endpoints
- JWT authorization setup
- Sample request and response data

4. Deployment

- Deploy backend on Vercel / Render or similar
- Provide live API base URL and webhook endpoint
- Proper CORS and error handling setup

5. Code Quality

- Clean project structure
- Centralized error handling
- Readable and maintainable code

Deliverables

- GitHub repository link
- Live deployed API URL
- Postman collection export
- .env.example file
- README with setup instructions and payment flow explanation

Evaluation Criteria

- REST API design and best practices
- Authentication and security
- Payment integration correctness
- Deployment quality
- Documentation and code quality

Please submit the assignment by the agreed deadline. If you have any questions, feel free to contact us.