# Internship Assignment: Full-Stack Development

Company: GIVA – Silver Jewellery Company
Location: Bangalore
Deadline: 24 hours from receiving the assignment.

## Objective:

To assess your ability to work with modern web technologies, particularly focusing on Postgres, React, and Node.js. You will be tasked with developing a basic e-commerce feature that demonstrates your skills in frontend and backend development.

## Assignment:

You are required to build a simple Product Management System using React(preferred Next.js), Node.js, and PostgreSQL.

## Key Requirements:

1.  1. Frontend:

- Create a product listing page where users can:
  - View a list of products (name, description, price, and available quantity).
  - Add a new product using a form (name, description, price, and quantity).
  - Edit an existing product.
  - Delete a product.
- Use React for the frontend.
- Style the frontend using basic CSS or any framework like Bootstrap.

2.  2. Backend:

- Build a simple API using Node.js and Express.js to handle the following operations:
  - GET: Fetch all products.
  - POST: Add a new product.
  - PUT: Edit an existing product.
  - DELETE: Delete a product.
- Use PostgreSQL as the database to store product information.

3.  3. Database:

- Set up a PostgreSQL database with a products table containing the following fields:
  - id (Primary Key)
  - name (Text)

- description (Text)
   - price (Float)
   - quantity (Integer)

4.   4. Bonus (Optional):

- Add unit tests for your API routes.
- Implement simple authentication for adding, editing, and deleting products.
- Deploy the application to vercel or any other hosting service.


## Submission Guidelines:

-  Share a GitHub repository with your project code.
   - Ensure that the project can be set up and run locally with minimal effort (include a
   README with setup instructions).
   - If deployed, provide the live URL.

-  Feel Free to use any open source dataset to create initial dataset


## Evaluation Criteria:

- Code quality: Clean, modular, and reusable code.
- Functionality: How well the app meets the requirements.
- Database integration: Efficient use of PostgreSQL.
- Creativity: Optional features or enhancements beyond the scope.
- Timely submission.