

## Ehsaan Tech - MERN Stack Roadmap - 2nd Month

### Foodie App

#### Introduction:

You are tasked with designing a foodie app, which caters to both foodies and chefs. The app's primary features include allowing foodies to view available dishes, order dishes, enabling chefs to manage their dishes and create new ones.

#### Instructions:

- Choose Node.js as your programming language with express.js framework.
- Use MySQL database with knex.js query builder.
- Ensure that your code is well-documented.

#### Task 1: Database design and Migrations

- Develop an Entity-Relationship Diagram (ERD) for the application, utilizing tools like Excalidraw or Lucid charts or [Draw.io](https://draw.io).
- Use knex.js migrations to build the database schema.

#### Task 2: Authentication APIs

Implement a user authentication system with the following features:

- User Registration (Signup).
- User Authentication (Login).
- Generate token using JWT.

#### Task 3: Chef APIs

- Create new dishes.
- Update dishes.
- Delete dishes.
- List orders.
- Upload images using multer.

- Implement JWT authentication to restrict access to these APIs, ensuring only chef can perform these actions.

#### Task 4: Foodie APIs

- List all dishes.
- List specific dishes.
- Order dishes.
- List all foodie orders.

#### Task 5: Additional Features

- Implement payload validation using joi library.
- Password hashing using bcrypt.
- Make sure your REST API endpoints should follow good naming practices.
- Implement local and global error handling.
- Test your APIs through postman.
- Use async/await to handle promises. For reference [check this out](#).
- Use this folder structure for your project

```
project-root/  
| - src/  
| | - routes/           // define the endpoints  
| | - controllers/      // handles incoming req and res  
| | - models/           // define database schema  
| | - services/         // generally holds business logic  
| | - middleware/       // Implement middleware functions  
| | - repositories/     // functions that interact with our database  
| - config/             // environment variables  
| - docs/               // documentation  
| - node_modules/  
| - package.json  
| - server.js           // Entry point of the application
```