

## Thinkbridge – FoodieDelight Report

**Github:** [https://github.com/ashgole/Thinkbridge\\_Foodiedelight\\_MERN](https://github.com/ashgole/Thinkbridge_Foodiedelight_MERN)

**Title:** Hotel Management System

### Description:

The Hotel Management System is a comprehensive web application designed to streamline the management of hotel operations. Built with React on the frontend and Express.js on the backend, this system provides an efficient and user-friendly interface for managing hotel data, including restaurant details and menu items.

Key features include:


- **State Management with Redux:** Centralized state management using Redux for seamless handling of restaurant data and search terms.
- **Routing with React Router:** Smooth navigation between different components such as the Restaurant List and Add Restaurant forms.
- **Forms and Input Handling:** Controlled components with validation to ensure accurate data entry.
- **Styling with Tailwind CSS:** Modern and responsive user interface using Tailwind CSS.
- **API Integration:** Utility functions for interacting with backend APIs and handling CRUD operations.
- **Pagination and Search:** Efficient handling of large datasets with pagination and search functionality.
- **Image Uploading Feature:** Middleware for handling image uploads, ensuring images are processed and stored correctly on the server.

### Process to run:

- Extract zip file
- Open in vscode , code .
- cd backend
- npm i
- npm run dev
- cd frontend
- npm i
- npm run dev

## Screenshots:

### Home -




 FOODIEDELIGHT

HomeAddReport

Restaurants List

Add Restaurant

Search by name...

| Name                    | Description                                     | Location                      | Menu  | Image   | Edit                 | Delete                 |
|-------------------------|---|-------------------------------|---|---|----------------------|------------------------|
| 1 : The Gourmet Kitchen | A fine dining experience with exquisite dishes. | 123 Foodie Lane, Flavor Town  | Seared Scallops - \$25.99<br>Lobster Bisque - \$19.99   |  | <a href="#">Edit</a> | <a href="#">Delete</a> |
| 2 : Pizza Palace        | Home of the best wood-fired pizzas.             | 456 Cheesy Way, Pizza Town    | Margherita Pizza - \$12.99<br>Pepperoni Pizza - \$14.99 |  | <a href="#">Edit</a> | <a href="#">Delete</a> |
| 3 : Burger Bonanza      | The juiciest burgers in town.                   | 789 Grill Street, Burger City | Cheeseburger - \$10.99<br>Bacon Burger - \$12.99        |  | <a href="#">Edit</a> | <a href="#">Delete</a> |

Previous

1

2

3

Next

### Add Restaurant Component –

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HomeAddReport

Add Restaurant

Name

Description

Location

Upload Image:

Choose File


No file chosen

Menu

Add Menu Item

Add Restaurant

Edit Restaurant Component -

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HomeAddReport

Restaurants List

Search by name...

| Name                    | Description                                     |
|-------------------------|---|
| 1 : The Gourmet Kitchen | A fine dining experience with exquisite dishes. |
| 2 : Pizza Palace        | Home of the best wood-fired pizzas.             |
| 3 : Burger Bonanza      | The juiciest burgers in town.                   |

Edit Restaurant

Name:

The Gourmet Kitchen

Description:

A fine dining experience with exquisite dishes.

Location:

123 Foodie Lane, Flavor Town

Menu:

Searched Scallops25.99




Lobster Bisque19.99

Add Menu Item

Cancel

Save

Add Restaurant

| Menu  | Image   | Edit | Delete |
|---|---|------|--------|
| Searched Scallops - \$25.99<br>Lobster Bisque - \$19.99 |  | Edit | Delete |
| Margherita Pizza - \$12.99<br>Pepperoni Pizza - \$14.99 |  | Edit | Delete |
| Cheeseburger - \$10.99<br>Bacon Burger - \$12.99        |  | Edit | Delete |

Report –

## Project Features Report

### Frontend Features

#### React and Redux

- State Management: Use Redux to manage the application's state, including restaurant data and search term.
- Action Creators and Reducers: Implement action creators (`addRestaurant`, `deleteRestaurant`, `updateRestaurant`, `searchRestaurant`) and corresponding reducers to handle state changes.

#### React Router

- Navigation: Use `react-router-dom` for navigation between different components (e.g., Restaurant List, Add Restaurant).

#### Forms and Input Handling

- Controlled Components: Manage form input values using state to control form elements.
- Validation: Add validation rules for form inputs to ensure correct data entry.

#### Components

- RestaurantList:** Display a paginated list of restaurants with search functionality.
- EditRestaurant:** Provide a form for editing restaurant details with input validation.
- EditModal:** Display a modal for editing restaurant details.

#### Styling

- Tailwind CSS: Use Tailwind CSS for styling components, providing a responsive and modern UI.

#### API Integration

- API Utils: Create utility functions (`getData`, `postData`) to interact with backend APIs.
- Constants: Define constants for API endpoints (e.g., `DELETE_DATA`, `GET_DATA`, `UPDATE_DATA`).

#### Pagination

- Paginate Data: Implement pagination to manage large datasets, displaying a limited number of records per page.
- Page Navigation: Provide controls for navigating between pages.

#### Search Functionality

- Filter Data: Implement search functionality to filter restaurants by name.

#### Image Upload Feature

- Image Upload: Added functionality to upload and store restaurant images.
- FormData Handling: Modified form submission to handle image files using `FormData`.
- Backend Integration: Integrated `multer` for image upload processing on the server.
- Image Validation: Added validation to ensure only images are uploaded.

### Backend Features

#### Express.js

- Server Setup: Set up an Express.js server to handle API requests.
- Routes: Define routes for CRUD operations (Create, Read, Update, Delete) on restaurant data.

#### CRUD Operations

- Create: Implement API endpoints to add new restaurants.
- Read: Implement API endpoints to retrieve restaurant data, including search and pagination.
- Update: Implement API endpoints to update existing restaurant details.
- Delete: Implement API endpoints to delete restaurants.

#### Validation

- Input Validation: Validate incoming data to ensure it meets the required criteria before processing.

#### Deployment

- Server Deployment: Deploy the backend server to a cloud provider (e.g., Heroku, AWS).
- Environment Variables: Use environment variables to manage sensitive information (e.g., database connection strings).