

CLOUD

Lesson 7

Activity - Practice Set

Trainees are required to plan, design and develop a restaurant **reservation** app(**platform**) with an admin dashboard for each restaurant. The backend of the project should be NodeJS and MongoDB.

Restaurant Reservation App with Admin Dashboard Requirements:

- Objective:
 - The objective of this project is to create a restaurant reservation platform with an admin dashboard for each restaurant. The platform should allow users to search for restaurants, view available reservation slots, and make reservations.
- User Interface:
 - Design a user-friendly interface for both the reservation platform and the admin dashboard.
 - Include search functionality for users to find restaurants based on location, cuisine, or other criteria.
 - Display restaurant details, such as name, location, cuisine, and available reservation slots, etc.
- Reservation Features:
 - Allow users to select a restaurant and choose a date and time for their reservation.
 - Provide a calendar view for users to see available reservation slots.
 - Allow users to view and manage their reservations, including editing or cancelling reservations.
- Admin Dashboard:
 - Create a separate admin dashboard for each restaurant to manage reservations and restaurant details.
 - Analyse and represent data in charts for the admin.
 - Include features for adding and updating restaurant information, managing reservation slots, and viewing reservation history.
- Authentication and Authorization:
 - Implement user authentication and authorization to ensure that only authorised users can access the admin dashboard.

- Provide role-based access control to restrict access to certain features based on user roles.
- Database and Backend:
 - Use a database to store restaurant information, reservation data, and user details.
 - Develop a backend system to handle user requests, manage reservations, and update restaurant information.
- Notifications:
 - Implement push notifications to remind users of upcoming reservations and notify restaurants of new reservations or changes.
- Payment Integration:
 - Integrate a payment gateway to allow users to make reservations online.
 - Ensure that the payment process is secure and compliant with relevant regulations.
- Feedback and Reviews:
 - Include a feature for users to leave feedback and reviews for restaurants.
 - Display restaurant ratings and reviews to help users make informed decisions.
- Mobile Responsiveness:
 - Design the reservation platform and admin dashboard to be mobile-responsive, allowing users to access them from smartphones and tablets.
- Testing:
 - Conduct thorough testing of the reservation platform and admin dashboard to ensure that all features work as expected.
 - Test the application on different devices and browsers to ensure compatibility.
- Documentation:
 - Provide documentation for developers on how to set up and run the application.
 - Include user guides for using the reservation platform and admin dashboard.
- Deployment:
 - Deploy the application to a hosting service or app store for users to access.
 - Ensure that the deployment process is well-documented and includes any necessary configuration steps.