Project Task and step-by-step Instructions:

Hotel Management System project:

1. \*Project Setup:\*

- Set up a new Node.js project.

- Initialize the project with necessary dependencies (Express.js, MongoDB, etc.).

- Create the project directory structure.

2. \*Frontend Setup:\*

- Design UI wireframes for different pages (room management, booking, admin dashboard, etc.).

- Create HTML templates for each page.

- Develop CSS stylesheets for a responsive design.

3. \*Backend Setup:\*

- Configure Express.js routes for different functionalities.

- Set up a MongoDB database and define the schema.

- Implement CRUD operations for interacting with the database.

4. \*Integration:\*

- Connect the frontend and backend components.

- Ensure data is successfully passed between the client and server.

5. \*Room Management:\*

- Create UI for adding, updating, and deleting rooms.

- Implement backend logic for managing room details.

- Develop a calendar for visualizing room availability.

6. \*Booking System:\*

- Design and implement a room search functionality.

- Develop a booking form for guests to enter details and make reservations.

7. \*Admin Dashboard and Reporting:\*

- Design the admin dashboard UI.

- Implement backend logic to gather and display booking statistics, occupancy rates, and revenue summaries.

- Add admin privileges for managing staff, viewing bookings, and updating room information.

8. \*Check-in and Check-out:\*

- Create UI for digital check-in forms.

- Implement backend logic for staff to verify check-in details and process check-outs.

- Update room status upon check-out.

9. \*Payment Handling:\*

- Generate invoices for guests upon check-out.

- Simulate a payment system for demonstration purposes.

10. \*Hotel Photo Gallery:\*

- Design UI for the photo gallery section.

- Implement functionality for admins to add and delete photos of the hotel.

11. \*Feedback and Reviews:\*

- Create UI for guests to leave feedback and reviews.

- Implement backend logic for storing and displaying reviews.

- Calculate and display average ratings for rooms and services.

12. \*Local Attractions and Recommendations:\*

- Design UI for showcasing local attractions and recommendations.

- Implement functionality to display relevant information.

13. \*Notifications and Reminders:\*

- Set up email notifications for guests, including booking confirmations.

14. \*Testing:\*

- Perform thorough testing of each feature and functionality.

- Debug and fix any issues identified during testing.