Key Features and Requirements

1. User Registration and Authentication

- **Registration**:
  - Implement user registration with fields for email, password, and role selection (Admin, Manager, Employee).
  - Send a confirmation email to new users containing a verification link to activate their accounts.
- **Login**:
  - Enable users to log in using their email and password.
- **Forgot Password**:
  - Provide a feature to request a password reset link via email.
  - Implement a secure mechanism for resetting the password.

2. Role-Based Access Control (RBAC)

- Assign roles during user registration or by an admin.
- Define permissions for each role:
  - **Admin Role**:
    - Full control over user and employee management.
  - **Manager Role**:
    - View employees and send/receive messages.
  - **Employee Role**:
    - Limited access, including viewing their own details and messaging colleagues.

3. Employee Management

- Implement CRUD (Create, Read, Update, Delete) operations for managing employee records.
- Include the following fields for employee records:
  - Name
  - Department
  - Position
  - Salary

4. Messaging System

- Implement a real-time messaging feature to allow employees to communicate within the application.
- Features:
    - Simple interface for selecting recipients and viewing conversation history.
    - Notifications for new messages.

Additional Requirements

1. **Dummy Database**:
    a. Use JSONPlaceholder as the backend dummy database for storing and retrieving data.
2. **Testing**:
    a. Write tests to ensure the functionality of all features. Include unit tests for key components.
3. **Group Collaboration**:
    a. Work in groups of 2-3 participants. Ensure clear division of tasks and effective communication within the group.
4. **Project Submission**:
    a. Submission Deadline: **Monday**
    b. Deliverables:
        i. Complete project codebase (hosted on a Git repository with clear documentation).
        ii. Test cases and results.
        iii. A brief report summarizing the implementation and roles of each group member.