Employee Management Application: Scope & Specifications

Technologies, Frameworks, and Database

1. PHP Laravel 8 will be used as the development platform
2. MySQL 5 will be used as a database
3. Vue.js will be used (with Laravel mix) as a front end framework
4. Bootstrap 5 may be used for some of the front end work

User Interface

1. User interface should be responsive based on HTML5 and Bootstrap 5
2. UI layout will be composed of a side-bar and a header
3. The sidebar will display a vertical menu containing the following:
   a. Dashboard
   b. Employee Management
   c. System Management
      i. Country
      ii. State
      iii. City
      iv. Department
4. User management will contain the following features:
   a. User
   b. Role
   c. Permissions
5. The header will display the logged-in user's name and the menu for logging out of the app
6. The authentication will contain the following features:
   a. Login with email and password
   b. Three failed login attempts will lock the user out for 5 minutes
7. After authentication, the user will be redirected to the dashboard

8. User management will contain the following features:
    a. CRUD on users
    b. Modify password
    c. Search for users on username and/or email
9. Employee management will contain the following features:
    a. List employee with search and filter by employee name and/or department
    b. CRUD on employees
10. System Management will contain the features in S-3C:
    a. All will be listed and searchable
    b. All will have CRUD functionality

API

1. Create an API endpoint for user registration and authentication
2. Create an API endpoint to list all employees ordered alphabetically by last name