**EMPLOYEE MANAGEMENT SYSTEM**

**Specification**

**Programming Framework & Database**

1. Use Laravel 9 framework as development platform
2. MySQL 5 or later as database
3. Laravel livewire
4. Bootstrap 5
5. Alertify for notifications

**User Interface**

1. Interface should be responsive based on HTML 5 and bootstrap 5
2. User interface layout should have a sidebar menu and header
3. On side bar the following should be displayed as vertical menu
   1. Dashboard
   2. Employee Management
   3. System Management

* Country (Sub menu)
* State (Sub menu)
* City (Sub menu)
* Department (Sub menu)

3. User Management

3.1 User (sub menu)

3.2 Role (sub menu)

3.3 Permission (sub menu)

4. On header interface, display the name of the logged in user as well as the menu for logout

5. After authentication, the user should be redirected to a blank dashboard

**Authentication**

1.User will be able to login using email and password

2.Three (3) failed attempts will lock the users for 5 minutes

**User Management**

* Create,update and delete users
* Change password
* Search user by username and email
* Role and permission -CRUD(optional)

**Employment management**

List of employees with search and filter by employee name and department

Create,update and delete employees

**System management**

1.Country

* + List of countries with search
  + Create,update and delete

2.State

* + List of countries with search
  + Create,update and delete

3.City

* + List of countries with search
  + Create,update and delete

4.Department

* + List of countries with search
  + Create,update and delete

**API**  
 create an API end point for user registration and authentication

Create an API end point to list all employees order alphabetically by last nam

**Data Dictionary**

|  |  |  |  |
| --- | --- | --- | --- |
| Users |  |  |  |
|  | id | auto increment |  |
|  | username | char(20) | \*required |
|  | lastname | char(20) | \*required |
|  | firstname | char(20) | \*required |
|  | email | varchar(20) | \*required |
|  | password | varchar(255) | \*required |
|  | created\_at | datetime |  |
|  | updated\_at | datetime |  |
|  | deleted\_at | datetime |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Employees |  |  |  |
| employees | id | auto increment |  |
|  | lastname | varchar(60) | \*required |
|  | firstname | varchar(60) | \*required |
|  | middlename | varchar(60) | \*required |
|  | address | varchar(120) | \*required |
|  | department\_id | foreign key to department | \*required |
|  | city\_id | foreign key to city | \*required |
|  | state\_id | foreign key to state | \*required |
|  | country\_id | foreign key to country | \*required |
|  | zip\_code | char(10) | \*required |
|  | birthdate | date |  |
|  | date\_hired | date |  |
|  | created\_at | datetime |  |
|  | updated\_at | datetime |  |
|  | deleted\_at | datetime |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Countries |  |  |  |
|  | Id | Auto increment |  |
|  | Country\_code | Char(3) | \*required |
|  | Name | Varchar(60) | \*required |
|  | created\_at | datetime |  |
|  | updated\_at | datetime |  |
|  | deleted\_at | datetime |  |

|  |  |  |  |
| --- | --- | --- | --- |
| States |  |  |  |
|  | id | auto increment |  |
|  | country\_id | foreign key to country | \*required |
|  | name | varchar(60) | \*required |
|  | created\_at | datetime |  |
|  | updated\_at | datetime |  |
|  | deleted\_at | datetime |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Cities |  |  |  |
|  | id | auto increment |  |
|  | state\_id | foreign key to state | \*required |
|  | name | varchar(60) | \*required |
|  | created\_at | datetime |  |
|  | updated\_at | datetime |  |
|  | deleted\_at | datetime |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Department |  |  |  |
|  | id | auto increment |  |
|  | name | varchar(60) | \*required |
|  | created\_at | datetime |  |
|  | updated\_at | datetime |  |
|  | deleted\_at | datetime |  |