



## Problem Description

You have to write an application using the **MERN** stack and it will have the following 2 parts.

### Frontend

Which will have the following pages.

1. Login Page
2. List user page (with following considerations)
  - a. Backend pagination using scroll
  - b. Using virtualization strategy to render about 1000 users in a single page
  - c. Id, name and email will be shown in the list
  - d. Provide single record delete action in the list
3. User Detail page
4. Create a new user page
5. Edit an existing user page

### Backend

Which will have following functionality

- User CRUD operations APIs (Get Single, Get Many, Create, Update, Delete calls)
- JWT strategy will be used for authentication.
- All the APIs can be accessed by only the logged in admin users.
- Must write a seed database script to generate 10000 users in the database.
- User will have following fields
  - ID
  - Name
  - Email
  - Addresses (will be an array of objects with following fields)
    - AddressLine1
    - AddressLine2
    - City
    - State
    - Country
  - Role
  - Phone No

**Note:** Code written in typescript will be a plus point. Also use any Node Framework, preferably NestJS.