Lab 10

The Job Seeking System is a web-based platform that connects job seekers with job postings. Employers can create and manage job postings, while job seekers can search for jobs and apply through the system.

Use: Spring web, Lombok, Validation, MySql Driver, Spring Data JPA Dependencies.

Create:

- **User**: Model, Controller, Service and Repository.
- **JobPost:** Model, Controller, Service and Repository.
- **JobApplication:** Model, Controller, Service and Repository.
- **ApiResponse Class.**

User Model has:

- id:
  - Must be Generated.
- name:
  - Cannot be null.
  - Length must be more than 4 characters.
  - Must contain only characters (no numbers).
- email:
  - Must be a valid email format.
  - Must be unique.
- password:
  - Cannot be null.
- age:
  - Cannot be null.
  - Must be a number.
  - Must be more than 21.
- role:
  - Cannot be null.
  - Must be either "JOB_SEEKER" or "EMPLOYER" only.

JobPost Model has:

- id:
  - Must be Generated.
- title:
  - Cannot be null.
  - Length must be more than 4 characters.
- description:
  - Cannot be null.
- location:
  - Cannot be null.
- salary:
  - Cannot be null.
  - Must be a non-negative number.
- postingDate

JobApplication Model has:

- id:
  - Must be Generated.
- userId:
  - Cannot be null.
- jobPostId:
  - Cannot be null.

Endpoints:

1. **Get all Users:** Retrieves a list of all Users.
2. **Add a new User**: Adds a new user to the system.
3. **Update a User:** Updates an existing user's information.
4. **Delete a User:** Deletes a user from the system.
   Note: Verify that the user exists.
5. **Get all JobPosts:** Retrieves a list of all Job Posts.
6. **Add a new JobPost**: Adds a new job post to the system.
7. **Update a JobPost:** Updates an existing job post 's information.
8. **Delete a JobPost:** Deletes a job post from the system.
   Note: Verify that the job post exists.
9. **Get all Job Applications:** Retrieves a list of all Job Application.
10. **Apply For Job**: Adds a new job application to the system.
11. **Withdraw Job Application:** Deletes a job application from the system.
    Note: Verify that the job application exists.