### **Internal Job Portal**

### Objective:

Internal Job Portal is an online application to be built as a product that can provide a onestop point for all employees to apply/view job postings, comment on postings, post job requirements etc..

### **Users of the System:**

- 1. Admin
- 2. HR
- 3. Employees

### **Functional Requirements:**

- The System should enable Project Managers to submit their job requirements to the HR for posting.
- System should incorporate an approval cycle where the HR validates the submitted job posting before posting to the portal
- System should enable employees to view and apply different jobs, allow discussions about jobs etc..
- System should enable Project Managers to View their Job Postings, Applicant details and their profiles for a particular Job Posting.
- An Employee can apply maximum 2 jobs.

While the above ones are the basic functional features expected, the below ones can be nice to have add-on features:

- Filters for products like Low to High or showcasing products based on the customer's price range, specific brands etc.
- > Email integration for intimating new personalized offers to customers.
- Multi-factor authentication for the sign-in process
- Payment Gateway

#### **Output/ Post Condition:**

- Records Persisted in Success & Failure Collections
- Standalone application / Deployed in an app Container

# Non-Functional Requirements:

Security	App Platform –UserName/Password-Based Credentials					
	<ul> <li>Sensitive data has to be categorized and stored in a secure</li> </ul>					
	manner					
	<ul> <li>Secure connection for transmission of any data</li> </ul>					
Performance	Peak Load Performance					
	<ul><li>Job portal -&lt; 3 Sec</li></ul>					
	<ul> <li>Admin application &lt; 2 Sec</li> </ul>					
Availability	99.99 % Availability					

Standard	Scalability
Features	Maintainability
	<ul> <li>Usability</li> </ul>
	<ul> <li>Availability</li> </ul>
	<ul> <li>Failover</li> </ul>
Logging &	<ul> <li>The system should support logging(app/web/DB) &amp; auditing at</li> </ul>
Auditing	all levels
Monitoring	<ul> <li>Should be able to monitor via as-is enterprise monitoring tools</li> </ul>
Cloud	<ul> <li>The Solution should be made Cloud-ready and should have a</li> </ul>
	minimum impact when moving away to Cloud infrastructure
Browser	• IE 7+
Compatible	<ul> <li>Mozilla Firefox Latest – 15</li> </ul>
	<ul> <li>Google Chrome Latest – 20</li> </ul>
	Mobile Ready

**Technology Stack** 

roominology oldok			
Front End	React		
	Google Material Design		
	Bootstrap / Bulma		
Server Side	Spring Boot		
	Spring Web (Rest Controller)		
	Spring Security		
	Spring AOP		
	Spring Hibernate		
Core Platform	OpenJDK 11		
Database	MySQL or H2		

### <u>Platform Pre-requisites (Do's and Don'ts):</u>

- 1. The React app should run in port 8081. Do not run the React app in the port: 3000.
- 2. Spring boot app should run in port 8080.

### **Key points to remember:**

- 1. The id (for frontend) and attributes(backend) mentioned in the SRS should not be modified at any cost. Failing to do may fail test cases.
- 2. Remember to check the screenshots provided with the SRS. Strictly adhere to id mapping and attribute mapping. Failing to do may fail test cases.
- 3. Strictly adhere to the proper project scaffolding (Folder structure), coding conventions, method definitions and return types.
- 4. Adhere strictly to the endpoints given below.

### **Application assumptions:**

- 1. The login page should be the first page rendered when the application loads.
- 2. Manual routing should be restricted by using AuthGaurd by implementing the canActivate interface. For example, if the user enters as <a href="http://localhost:3000/signup">http://localhost:3000/signup</a> or <a href="http://localhost:3000/home">http://localhost:3000/home</a> the page should not navigate to the corresponding page instead it should redirect to the login page.
- 3. Unless logged into the system, the user cannot navigate to any other pages.
- 4. Logging out must again redirect to the login page.
- 5. To navigate to the admin side, you can store a user type as admin in the database with a username and password as admin.
- 6. Use admin/admin as the username and password to navigate to the admin dashboard.

### Validations:

- 1. Basic email validation should be performed.
- 2. Basic mobile validation should be performed.

# **Project Tasks:**

# **API Endpoints:**

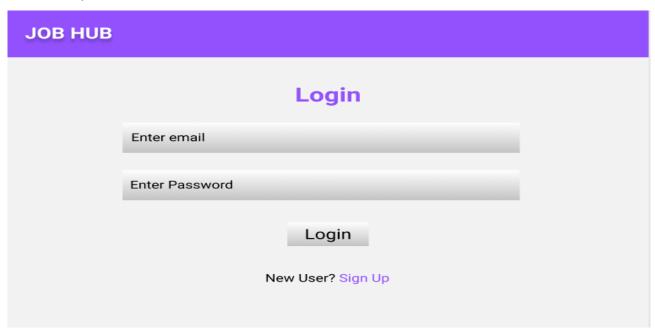
	1			
USER				
Action	URL	Method	Response	
Login	/login	POST	true/false	
Get All Job Post – Home	/home	GET	Array of Job Post	
Add to Applied Job	/home/{id}	POST	Job aApplied	
All Applied Jobs	/appliedJobs/{id}	GET	Array of AppliedJobs	
Delete Applied Jobs	/ appliedJobs /delete	Delete	Applied Job Deleted	
HR				
Action	URL	Method	Response	
Get All Jobs	/hr	GET	Array of Jobs	
Add Job	/hr/addJob	POST	Job added	
Delete Job	/hr/delete/{id}	GET	Job deleted	
Job Edit	/hr/jobEdit/{id}	GET	Get All details of Particular id	
Job Edit	/hr/jobEdit/{id}	PUT	Save the Changes	
Get All AppliedJobs	/hr/allAppliedJobs	GET	Array of AppliedJobs	
ADMIN				
Add HR	/admin/add	POST	HR added	
Update HR	/admin/update/{id}	PUT	HR Updated	
Delete HR	/admin/delete/{id}	DELETE	HR deleted	
Get All HR /admin/		GET	Return array of HR	

Frontend:

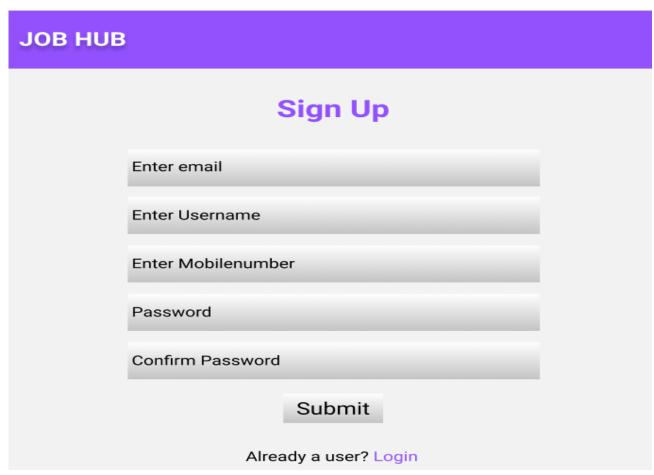
**Employee:** 

Login:

**Output Screenshot:** 

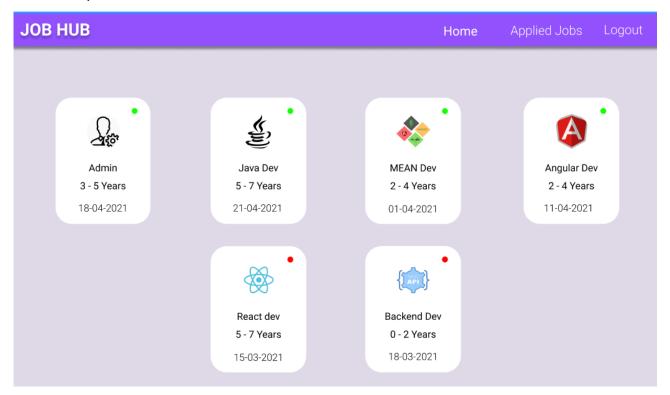


# Signup:

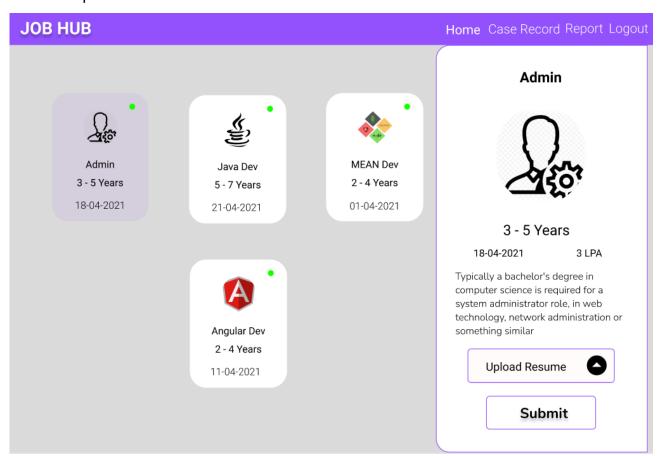


#### Home:

### **Output Screenshot:**



# Apply:



# **Applied Jobs:**

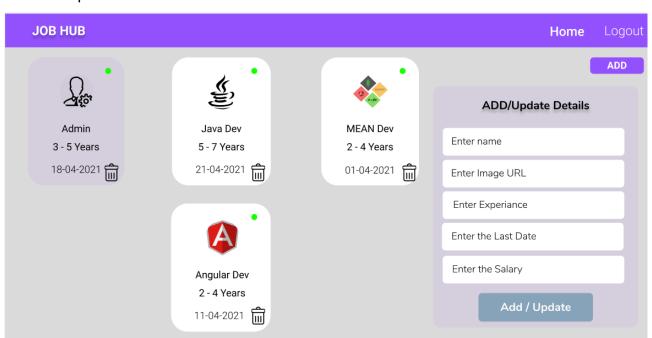
# Output Screenshot:

JOB HUB			Home	Applied Jobs	Logout
ID	Job Title	Date		ADMIN	
F34E-RST1-OPQS	Admin	10-02-2021			5 Years
ASDF-45DF-FSIL	Admin	18-01-2021		Mr. XYZ 10-02-2021	
			Typically a science is re administrat network ad	Typically a bachelor's degree in computer science is required for a system administrator role, in web technology, network administration or something similar  Click here to download the resume.	
				Status	

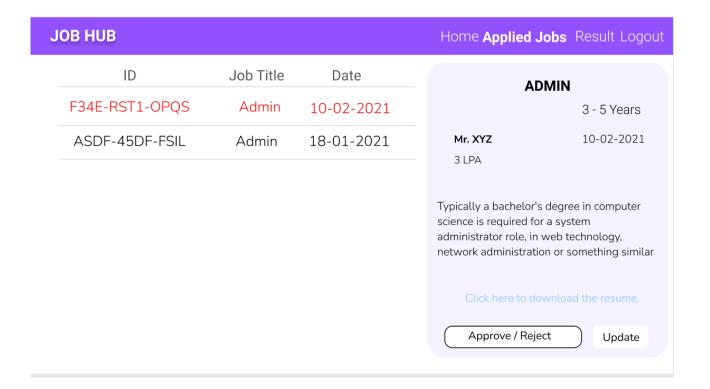
# HR:

### Home:

Output Screenshot:

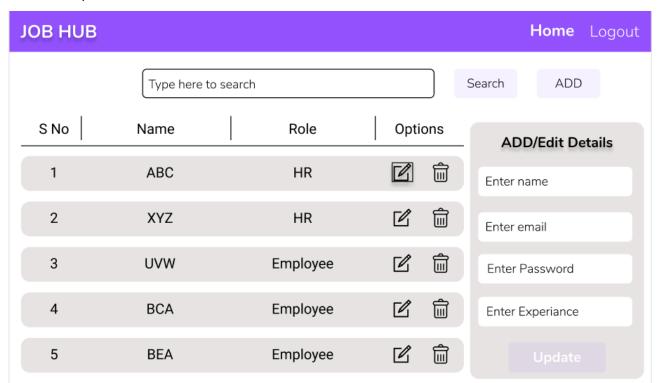


# **Applied Jobs:**



### **Admin:**

#### Home:



# **Backend:**

### **Class and Method description:**

### **Model Layer:**

- 1. EmployeeModel: This class stores the user type (HR or the Employee) and all user information.
  - a. Attributes:

i. email: String

ii. password: String

iii. empld: String

iv. mobileNumber: String

v. department: Boolean

vi. role: String

- b. Methods: -
- 2. LoginModel: This class contains the email and password of the user.
  - a. Attributes:

i. empid: String

ii. password: String

- b. Methods: -
- 3. JobModel: This class stores the details of the Jo.
  - a. Attributes:

i. jobTitle: String

ii. jobLocation: String

iii. jobType: String

iv. jobDesc: String

v. salary: String

vi.: String

- b. Methods: -
- 4. AppliedJobModel: This class stores the applied jobs details.
  - a. Attributes:

i. jobld: String

ii. employeeld: String

- iii. appliedDate: Date
- b. Methods: -

### **Controller Layer:**

- 1. EmployeeController: This class controls the add/edit/update/view Employees.
  - a. Attributes: -
  - b. Methods:
    - i. List<EmployeModel> getEmployee(): This method helps the admin / HR to fetch all employees from the database.
    - ii. EmployeModel getEmployeeById(String id): This method helps to retrieve a Employee from the database based on the employee id.
    - iii. EmployeeModel editEmployee(EmployeeModel data): This method helps to edit a employee and save it to the database.
    - iv. saveEmployee(EmployeeModel data): This method helps to add a new employee to the database.
    - v. deleteEmployee(String id): This method helps to delete a Employee from the database.
- 2. LoginController: This class controls the user login.
  - a. Attributes: -
  - b. Methods:
    - i. checkUser(LoginModel data): This method helps the user to sign up for the application and must return true or false
- 3. JobController: This class controls the add, edit, update, view Jobs.
  - a. Attributes: -
  - b. Methods:
    - i. List<JobModel> getJobs(): This method helps the HR to fetch all jobs from the database.
    - ii. List< JobModel > getHomeJobs(): This method helps to retrieve all the jobs from the database.
    - iii. JobModel jobEditData(String id): This method helps to retrieve a job from the database based on the jobId.
    - iv. jobsEditSave(JobModel data): This method helps to the HR to edit a jobs and save it to the database.
    - v. jobSave(JobModel data): This method helps the HR to add a new job to the database.
    - vi. jobtDelete (String id): This method helps the HR to delete a jobs from the database.
- 4. AppliedJobController: This class helps to mapping the employees with the jobs.

- a. Attributes: -
- b. Methods:
  - i. jobMapping(String jobId, String employee Id): This method helps to mapping the job
  - ii. List<AppliedJobModel> showJobs(String id): This method helps to view all the bobs by specific user.
  - iii. deleteMapping(String jobId, String employee Id): This method helps to delete a mapping between the employee and jobs applied.