INTUIT JOB PORTAL

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CONTENT

INTRODUCTION

Having accumulated a total of 6.5 years of experience in JavaScript, React JS, Redux, HTML, and CSS, I am currently employed as a Senior Software Engineer at Pegasystems. Pega is a low-code platform tool that utilizes Java Spring Boot for backend APIs and UI development within a mono-repository environment. This involves leveraging Node.js, React.js, Redux, and various third-party JavaScript libraries for UI development.

Previous Experience:-
Worked as a consultant in Allstate India insurance domain product.
Technologies React JS, Redux, Javascript, Node JS.

PROBLEM STATEMENT

The Intuit Job Portal is a frontend-based web application designed to streamline the job application process. Users can view and post jobs within two main sections: Freelancer and Employer.
Freelancer Section:
- Users can select skills matching their profiles and view all posted jobs by employers/recruiters.
- They can filter jobs by skill and apply to a job quickly with a single click.

Employer Section:
1. A form is provided to collect the following data points:
   - Job description document
   - Job Requirements
   - Tags relevant to the job
   - Company name and contact information of the job poster
2. Employers can view jobs posted by individual recruiters.
3. The system displays the number of applications for each job.
4. Employers can view the user profiles of job applicants.

FUNCTIONAL REQUIREMENTS

Employers can sign up, log in, and provide their basic details. Upon logging in, they can create job postings based on various information required for the positions. Once job posts are created, they will be available in the "My Jobs" section. When applicants apply for their jobs, employers can view the number of applicants and their profiles.

Employer

FUNCTIONAL REQUIREMENTS

Freelancer

Applicants can sign up and provide details such as personal information, educational background, skills, and Git profile. Once they sign up and log in using their email IDs, they will be directed to the available job postings page, where they can view all jobs posted by every recruiter. They can search for jobs based on their skills and apply for them with a single click. Once they apply, they can view their applied jobs in the "Applied Jobs" section.

NON-FUNCTIONAL REQUIREMENTS

- Security – Basic Form Validations
- Scalability – No special requirements needed
- Performance – Will be part of enhancement in the next phase
- Reusability – Code components like Jobs, helpers, etc
- Miscellaneous – Monitoring logs and unit testing with end-to-end automation.
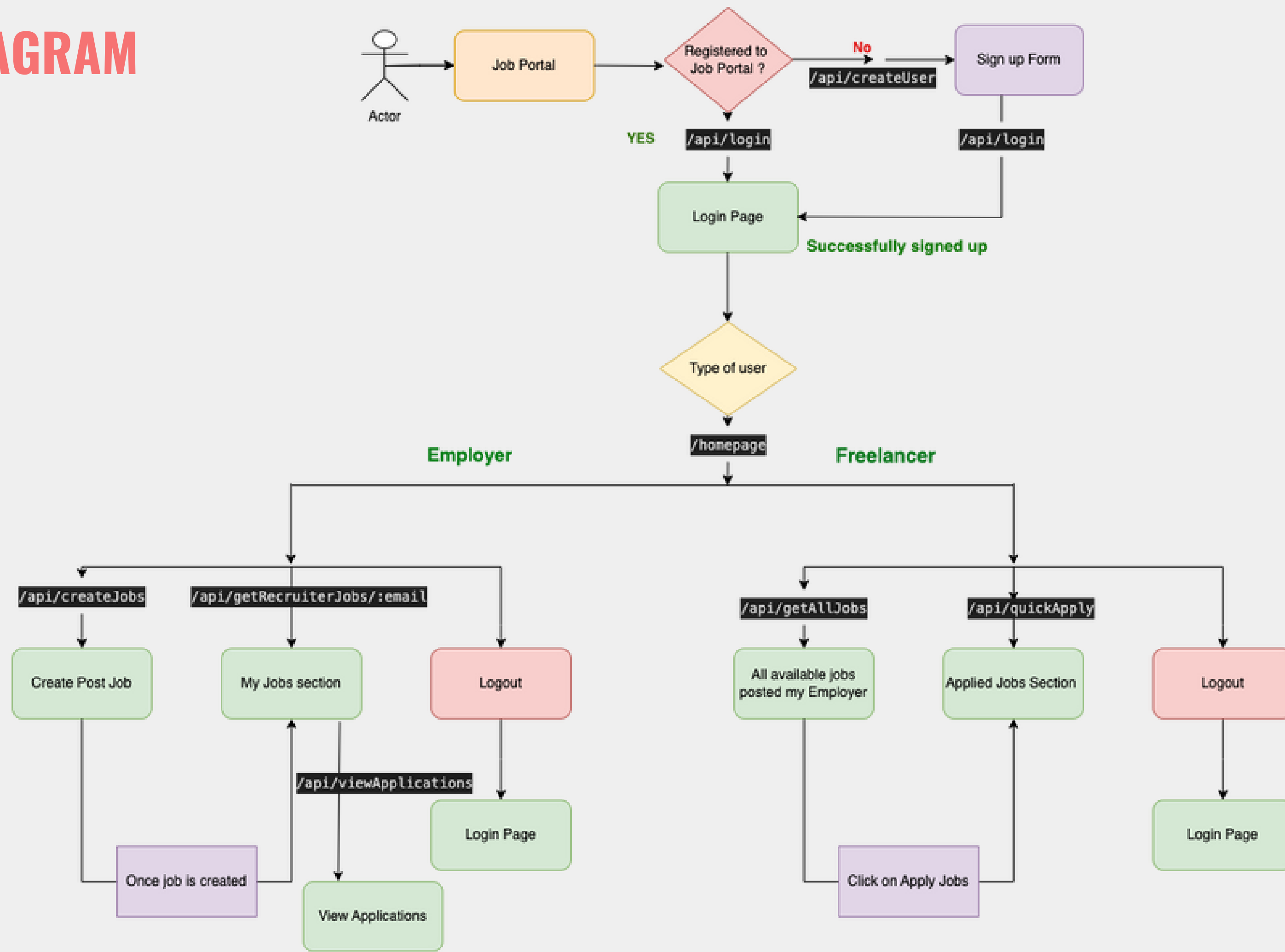
ASSUMPTIONS

1. Implementing APIs in Node.js Express middleware to fetch user and job data.
2. Storing user data and job data in a JSON file instead of a database.
3. Storing user credentials ie EmailId and its type in cookies.
4. Utilizing React Material UI for styling.
5. Implementing test cases for at least one use case.
6. As job listings data can be huge so implemented Pagination for Performance Optimization.

FLOW USAGE

- When a user opens the Intuit Job Portal, they check if they are registered. If not, they can sign up as either an applicant or an employer. Once the signup process is complete, they can log in using their email address and password. Their credentials will be stored in cookies. Additional user information will be saved in the "usersdb.json" file as a JSON object.

- If they log in as an employer, they will be directed to the Jobs section and check if jobs are available for them. If no jobs are available, they can create jobs by providing details such as job description, requirements, number of vacancies, required skills, salary, etc. This data will be saved in the "jobs.json" file as a JSON object. After successfully creating a job post, they can view their posted jobs in the Jobs section. When an applicant applies for any job, the employer can see the number of applicants for that particular job and view their profiles.

- If they log in as a freelancer, they can view all available jobs posted by their employer. They can filter jobs based on skills and apply for them. The jobs they have applied for will be visible in the Applied Jobs section.
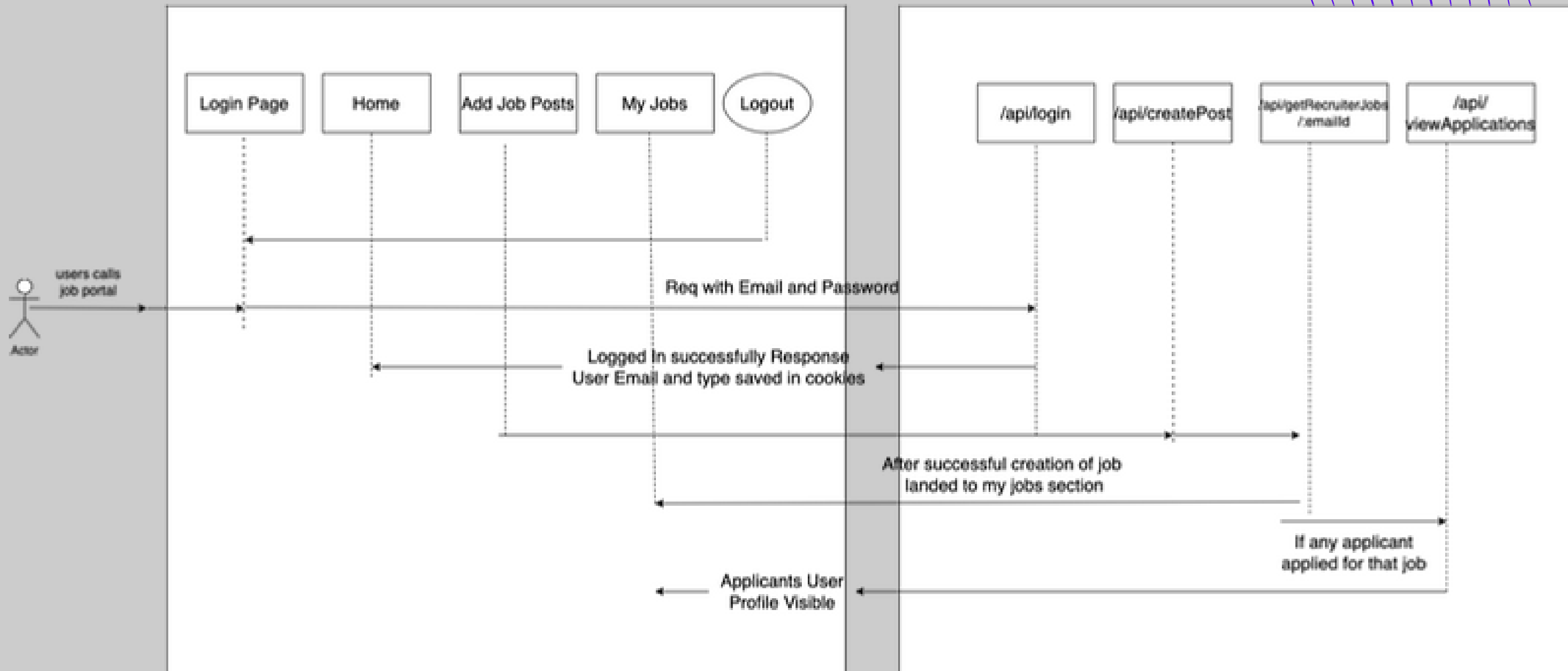
USE CASE DIAGRAM

Actor → Job Portal → Registered to Job Portal ?

No → `/api/createUser` → Sign up Form

YES → `/api/login`

`/api/login` → Login Page

Sign up Form → `/api/login` → **Successfully signed up** → Login Page

Login Page → Type of user → `/homepage`

Employer | **Freelancer**

Employer:
- `/api/createJobs` → Create Post Job
- `/api/getRecruiterJobs/:email` → My Jobs section
- Logout → `/api/login` → Login Page

Create Post Job → Once job is created → My Jobs section

My Jobs section → `/api/viewApplications` → View Applications

Freelancer:
- `/api/getAllJobs` → All available jobs posted my Employer
- `/api/quickApply` → Applied Jobs Section
- Logout → Login Page

All available jobs posted my Employer → Click on Apply Jobs → Applied Jobs Section

MODULE DIAGRAM

React (UI Layer)

Node Layer

Login Page | Home | Add Job Posts | My Jobs | Logout

/api/login | /api/createPost | /api/getRecruiterJobs/:emailId | /api/viewApplications

Actor

users calls job portal

Req with Email and Password

Logged In successfully Response User Email and type saved in cookies

After successful creation of job landed to my jobs section

If any applicant applied for that job

Applicants User Profile Visible

Signup

Category
Applicant ▾

Name
Demoapp

Email *
demoapp@gmail.com

Password
•••••••• 👁

Institution Name #1
IIT

Start Year
2012

End Year
2016

ADD ANOTHER INSTITUTION DETAILS

GitHub Profile

dmahe20 | Fetch Repositories

- DataStructure
- intuit-jobportal-craftdemo
- job-portal
- Namaste-React

skillsInput

JavaScript ⊗ Java ⊗ ReactJS ⊗ Redux ⊗

Press enter to add skills

SIGNUP

Sign in

Email *

demoapp@gmail.com

Password *

••••••

SIGN IN

Don't have an account? Registration

Online Job Portal

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Dark Mode

localhost:3000/signup

Online Job Portal

User Logged In Successfully

One Step Closer To Your Dream Job

Explore thousands of job opportunities with all the information you need. Its your future. Come find it. Manage all your job application from start to finish.

GET STARTED

Available Jobs

Search by Skill

(USA) Senior Manager, Energy Developer

Company Name : Walmart

Role : Creating and maintaining detections in production and test environments. Conduct attack emulations to review and validate efficacy of our detection capabilities. Working on EDRs and technologies like MDATP, Tanium, CrowdStrike, Azure Sentinel, Google Chronicle etc. Create SOPs and playbooks. Prioritize threat detection creation needs using data and threat intel. Mentor and train junior team members on detections and attack emulations.

Salary : ₹ 2000 per month

QUICK APPLY

My AppliedJobs

Search by Skill

(USA) Senior Manager, Energy Developer

Company Name : Walmart

Role : Creating and maintaining detections in production and test environments. Conduct attack emulations to review and validate efficacy of our detection capabilities. Working on EDRs and technologies like MDATP, Tanium, CrowdStrike, Azure Sentinel, Google Chronicle etc. Create SOPs and playbooks. Prioritize threat detection creation needs using data and threat intel. Mentor and train junior team members on detections and attack emulations.

Salary : ₹ 2000 per month

Skills Required: React   Redux

APPLIED

Online Job Portal

Signup

Category
Recruiter

Name
Demoreq

Email *
demoreq@gmail.com

Password
•••••••

Bio (upto 250 words)
Recruiting for frontend

SIGNUP

Online Job Portal

Sign in

Email *

demoreq@gmail.com

Password *

••••••••

SIGN IN

Don't have an account? Registration

Dark Mode

Add Job Post

Job Title *

SSE- Full stack - IOS

Skills Input

ios ⊗ cicd ⊗ deployment

Press enter to add skills

Job Description *

needed for ios development

Remote or Onsite *

remote

Salary per hour *

4000

Number of Vacancy *

5000

Job Requirements *

total 7 years of exp

Company name *

Honeywell

Job Poster's Info

Online Job Portal

Available Jobs

Search by Skill

SSE- Full stack - IOS

Company Name : Honeywell

Role : needed for ios development

Salary : ₹ 4000 per month

Number of Applicants: 0

Skills Required: ios   cicd

VIEW APPLICATIONS

DELETE JOB

PREVIOUS   Page 1 of 1   NEXT

Staff Automation Engineer

Company Name : BHEL

Role : Required automation engineer

Salary : ₹ 3000 per month

Number of Applicants: 0

Skills Required: AWS   Lambda

VIEW APPLICATIONS

DELETE JOB

Image Tuning Engineer, Pixel Camera

Company Name : Photoshop

Role : Needed professional in Image optimization

Salary : ₹ 1200 per month

Number of Applicants: 0

Skills Required: Image Compression

VIEW APPLICATIONS

DELETE JOB

Supervisor

Company Name : Allstate

Role : Knowledge in replair

Salary : ₹ 5000 per month

Number of Applicants: 1

Skills Required: laptop   macbook   desktop

VIEW APPLICATIONS

DELETE JOB

Employees

Demoapp

☆ ☆ ☆ ☆ ☆

Email: demoapp@gmail.com

Education: IIT

Github Projects:

- DataStructure
- intuit-jobportal-craftdemo
- job-portal
- Namaste-React

Skills: JavaScript   Java   ReactJS   Redux

API SCHEMA

For Recruiter
Request Payload –

```
{
 "type": "recruiter",
 "email": "req4@gmail.com",
 "password": "1234567",
 "name": "req4",
 "bio": "Looking for Senior software engineers"
}
```

Response –

```
"req4@gmail.com": {
 "type": "recruiter",
 "email": "req4@gmail.com",
 "password": "1234567",
 "name": "req4",
 "bio": "Looking for Senior software engineers"
 }
```

TO BE CONTINUED......

2) POST - http://localhost:8080/api/login
Request Payload -
{
 "email": "req4@gmail.com",
 "password": "1234567"
}

Response -

{
 "email": "req4@gmail.com",
 "userType": "recruiter"
}

TO BE CONTINUED......

3) POST – http://localhost:8080/api/createJobs

Request Payload –

```
{
 {
 "company_name": "HRX",
 "jobDescription": "Req4 desc",
 "job requirements": "req4 requirements",
 "job_title": "(MEXICO) Senior Manager, Energy Developer",
 "remote_or_onsite": "Onsite",
 "salary": "3000",
 "skills": [
 "Python",
 "C",
 "C++",
 "AZURE"
 ],
 "email": "req4@gmail.com",
 "phone": "9999123456
",
 "location": "bellandur",
 "tags": "",
 "numberOfVacancy": "9",
"createdBy":"req1@gmail.com"}
}
```

TO BE CONTINUED......

Response -

```
{
 "createdBy": "req1@gmail.com",
 "job_id": "REQ_58117744463",
 "company_name": "Walmart",
 "job_title": "(MEXICO) Senior Manager, Energy Developer",
 "jobDescription": "Req4 desc",
 "jobRequirements": "req4 requirements",
 "remote_or_onsite": "onsite",
 "salary": "3000",
 "email": "",
 "phone": "9999123456",
 "location": "Bellandur",
 "tags": "",
 "skills": [
 "React",
 "Redux"
 ],
 "numberOfVacancy": "9",
 "applicants_userIds": [
 "app1@gmail.com"
 ]
 },
```

4) GET – http://localhost:8080/api/getAllJobs

Response – Getting All Jobs created by every recruiter for Applicants/Freelancer

5) GET – http://localhost:8080/api/getAllUsers

Response – Get all users including Freelancer and Employer

6) GET – http://localhost:8080/api/getRecruiterJobs/req4@gmail.com

Response – Get all jobs listed that are created by individual employers

7) POST – http://localhost:8080/api/quickApply

Request Payload-
```
{
 "job_id":"REQ_58117744463",
 "email":"req@gmail.com"
}
```
Response –
```
{
 "message": "Applied for job successfully"
}
```

8) GET – http://localhost:8080/api/getUserDetails/req1@gmail.com

Response – Get all applicants profile who applied for "req1@gmail.com" employer

ENHANCEMENTS

- Instead of storing user details and job details in JSON files, we can transition to using any Database once the application is enhanced.
- For authentication, we can authenticate through JWT tokens in NodeJS middleware.
- Currently, we are utilizing the Context API for theme management and cookies for user authentication details. As the application scales, we can integrate Redux Store for global state management.
- Implement Webpack5 module federation(Employer Module and Freelancer Module) for more independent and straightforward code sharing at runtime among JavaScript applications, making the applications more adaptive and dynamic.

Questions ?

THANK'S FOR WATCHING