

Youva Sikhar Manch

An Intelligent Job Portal

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Problem Statement

National Web Portal is used for designing Job oriented courses with the help of Human Resource data and desirable skill sets from industries.

Organization

Government of Uttarakhand

Idea Description

The key idea involves creating a Job Portal, that tailor the recommendations for the students. The tailored recommendation will be of both suitable jobs, and courses that students can take up based on their skills and industry choices. The salient features are hassle free job upload by industry. The employer will not be required to fill up 10's of pages of form to upload a job, employer will be having a feasibility of uploading job requirements as a document. There will be no fraud in terms of in hand salary and benefits to the job seekers who get selected as the contract would be uploaded on to the Blockchain.

Use Cases

- New Job Posting, actor: employer
- Edit job posting, actor: employer
- Conduct Assessments, actor: employer
- View recommended jobs, actor: job-seeker
- View recommended courses, actor: job-seeker
- Apply to a job, actor: job-seeker

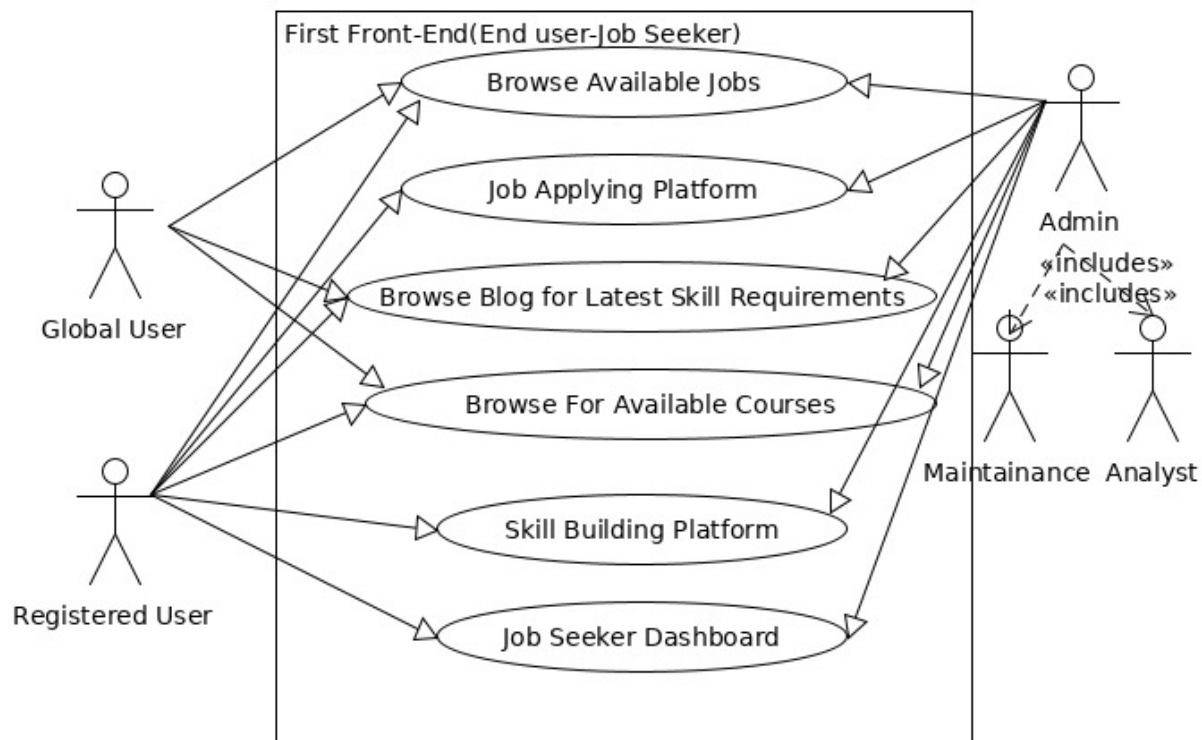


Figure 1 Use-Case Diagram

Key-tasks

Applying **NLP** to extract key skills from job description, data analytics for job filtering and visualizations, scraping top-most courses most closely related to desired skillset from various e-learning websites, and these will be arranged as per the learning path of the job-seeker.

Module 1

1. Read job description from pdf and word docs uploaded by industries.

2. The portal will automatically list the job description by reading the uploaded job description.
3. These job descriptions would be editable by poster.

Module 2

4. Platform whereby applicants can apply to jobs.
5. Applicant portal where s/he can see and apply for jobs as well as get recommendations for industry relevant courses from various e-learning websites, so (s)he can better prepare for his desired job profile and industry.

Module 3

6. Platform where industries can conduct assessments on.
7. Will have facilities like authentication for test taker and giver, and also analysing facility for the industry's side.

Module 4

8. SMS and mailing system to alert applicants of hiring and vacancy announcements.

Module 5

9. Once the job seeker gets selected by the company for which he/she had applied, a contract (offer letter/ LOI) offered by the company would be stored on the **Blockchain** so that company doesn't refuse to adhere to its terms and conditions later. IPFS would be used to store the contract and its hash would be stored on Blockchain. If any employer would try to edit the contract, it would disturb the hash of the entire Blockchain and would be caught easily.

Tech Stack

<i>Technology</i>	<i>Use</i>
HTML, CSS, Javascript	Web development
JSP, Servlet, Hibernate, Spring	Business Layer
MySQL, MongoDB	Database
Python, Plotly.js, NLP	Pre-processing, Data Analytics

Points of Uniqueness

- Zero Fake Jobs Assurance
- Identity Verification of both Employer and Candidate
- Tailored courses are not promotional
- Curated goal-oriented jobs and courses for job seekers