

# **JAVA PROJECT REPORT FILE**

## **PROJECT TITLE**

**Job portal with skill  
assessment**

## **SUBMITTED TO**

**Dr. Anjali Kapoor**

## **Problem Statement**

Job seekers often face challenges finding suitable jobs that align with their skills, and employers struggle to efficiently evaluate candidates' abilities. Current job portals lack a streamlined system that assesses candidates' practical skills alongside their qualifications, making it difficult for companies to find the best talent. This project aims to bridge that gap by providing a platform that matches candidates with jobs based on skill assessments and allows employers to filter applicants effectively.

## **Abstract**

This project introduces a web-based job portal integrated with a skill assessment system, aimed at enhancing the recruitment process. Job seekers can register on the platform, create profiles, apply for jobs, and complete skill assessments relevant to the job roles. Employers can post jobs, set skill requirements, and evaluate candidates based on their performance in these assessments. The system streamlines the job-matching process by connecting employers with candidates who demonstrate the required practical skills, making recruitment more efficient. The portal is built using Java for backend services, Python for the skill assessment engine, and HTML, CSS, and JavaScript for frontend development. This report provides a comprehensive overview of the problem, solution approach, implementation, and technologies used.

## **Solution Approach**

The platform offers a two-fold solution to the recruitment challenges faced by job seekers and employers:

- **Job Seekers:** Candidates can create profiles, upload resumes, search for jobs based on their skillset, and complete tailored assessments. The results of these assessments help them stand out by demonstrating their practical skills.
- **Employers:** Companies can post job openings, define the necessary skills for the role, and use the built-in skill assessments to filter candidates. The platform offers a dashboard to view and sort candidates based on their assessment scores, facilitating more informed hiring decisions.

## **Implementation**

- **User Registration & Authentication:** Users (job seekers and employers) register securely via a form. Java's authentication libraries manage the sign-in process, ensuring data protection.
- **Job Posting & Application System:** Employers can post detailed job descriptions, and candidates can apply for jobs that match their profiles. Applications are stored in the database, allowing easy tracking for both parties.
- **Skill Assessment:** An assessment module (using Python for evaluation) is integrated, enabling candidates to take

skill-based tests. The scores are recorded and linked to their profiles.

- Employer Dashboard: Employers can view a list of candidates, sorted by their assessment scores, to find the best match for their requirements.

## **Technology Stack:**

- Frontend: HTML, CSS, JavaScript – Used for developing a responsive, intuitive user interface for easy navigation.
- Backend: Java – Handles server-side logic, user authentication, and management of job postings and applications.
- Skill Assessment: Python – Powers the skill assessment engine to evaluate candidates and generate scores.
- Database: MySQL – Stores user data, job postings, applications, and assessment results securely.

## **SUBMITTED BY:**

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