Elevate Labs Internship Project Phase

Final Project Submission

Topic: Job Portal Application

Submitted by: DHARSHAN R

INTRODUCTION:

This is a simple Java console-based Job Portal System designed for freshers to learn basic programming concepts. It allows users to register as either an Employer or an Applicant. Employers can post jobs and view the jobs they have posted, while applicants can browse available jobs, apply for them, and track their applications.

The program stores all data in memory using arrays, without using databases or advanced libraries. It demonstrates key programming topics such as arrays, loops, methods, classes, and user interaction through menus. The design is modular, making it easy to extend and understand for beginners. This project helps learners practice object-oriented programming, condition handling, and data management in Java.

ABSTRACTION:

The Job Portal System is a console-based application developed in Java for beginners to simulate a job marketplace. It provides functionalities for users to register as employers or applicants. Employers can post and view job listings, while applicants can search for jobs, apply to them, and track their applications. The system uses arrays to store user, job, and application data temporarily during the program's execution. Through this project, learners gain hands-on experience with object-oriented programming, data handling, and user interaction in Java without relying on external frameworks or databases. This abstraction presents a simplified yet practical approach to developing real-world applications.

TOOLS:

Java Programming Language

1. Scanner Class (java.util.Scanner):

   - Used for taking input from the user through the console.

2. Arrays:

   - Used to store user details, job postings, and applications in memory.

3. Loops and Conditionals:

-Used to navigate through menus, search for jobs, and process user choices.

4. Classes and Objects:

   -Used to define `User`, `Job`, and `Application` entities and manage data.

STEPS INVOLVED IN BUILDING THE PROJECT:

1. Understand Requirements – Register users, post/view jobs, apply to jobs.

2. Design Classes – Create `User`, `Job`, and `Application` with needed fields.

3. Use Arrays – Store data in arrays with counters.

4. Implement Registration – Input username and role; save in array.

5. Implement Login – Check username and redirect based on role.

6. Employer Features – Post jobs and view own jobs.

7. Applicant Features – View all jobs, apply, and see applications.

8. Menu Interface – Create options using loops for interaction.

CONCLUSION:

The Job Portal System is a simple and effective Java-based application to learn programming concepts.
It covers user registration, job posting, and application tracking using arrays and basic Java features.
 By building this project, learners gain hands-on experience with classes, objects, loops, and user input
handling. The project reinforces problem-solving skills and helps understand how real-world
applications are structured, making it an ideal exercise for beginners to enhance their coding knowledge.