Online Job Portal System

DESIGN PROJECT

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1.INTRODUCTION

This is Java based online job portal system which allows companies and job seekers to sign up. Separate pages are available for both job seekers and companies. Companies can enter their details such as vacancies available, starting salary, location, name etc. Qualification, expected salary, CV, certificate details can be entered for the Job seekers. Based on the location and expectations of the job seeker, they'll be directed to a page where they can find suitable positions and salary. They can apply for that job according to the company specifications. Technology is constantly changing. Society as we know it depends on this fact. That which we take for granted today would have been the stuff of science fiction as little as fifty years ago. In fifty years' time, we will doubtless be excited, perturbed and baffled by yet more new-developments. In the early years of the twenty first century, it is computers and the Internet that have captured the public imagination and found their way into not just the working environments, but increasingly into the domestic spaces. In this modern society, if we are not capable to cope up with these changes than we are not going to stand or survive anywhere in this technical world.

Today there is no place for errors, so as to make a system more effective and efficient we need such technology where error prone chances must be least. In the scenario of the assignment, we are required to develop a web-based application on Job Portal Management System. In this time of recession where everyone, is either experienced or fresher, is in search for a job. This job portal can prove to be very helpful since it allows users of different profile to upload their CVs, search job on the basis of their qualification. Every user can access through user id and apply for multiple jobs at a time. Now-a-days the job market is so extensive that a variety of industries and companies are searching for right candidates and the prospective candidates are searching for right companies for growth opportunities. This purpose is served by most of the job portals on line. This is another job portal with an open environment for the job seekers and recruiters to meet on the same dais and know about each other so that the right candidate is placed in a right company.

2. ABSTRACT

In the current scenario, there is a rat race in each and every professional field. It is also true for job market. A job portal is a website dedicated for online information about recruiters as well as job seekers. A job portal helps both the job seekers and recruiters finding the right organization for the employees. In the case of job seekers, according to their educational qualification, experience and their preferences, the job portal shows the list of companies to the job seeker. And, to the recruiters, provides the suitable candidates from a pool of lacks. The objective of this application is to develop a system to enable interaction between employers and applicants. The determination is to allow communication between the interested parties and complete the task of recruitment quickly.
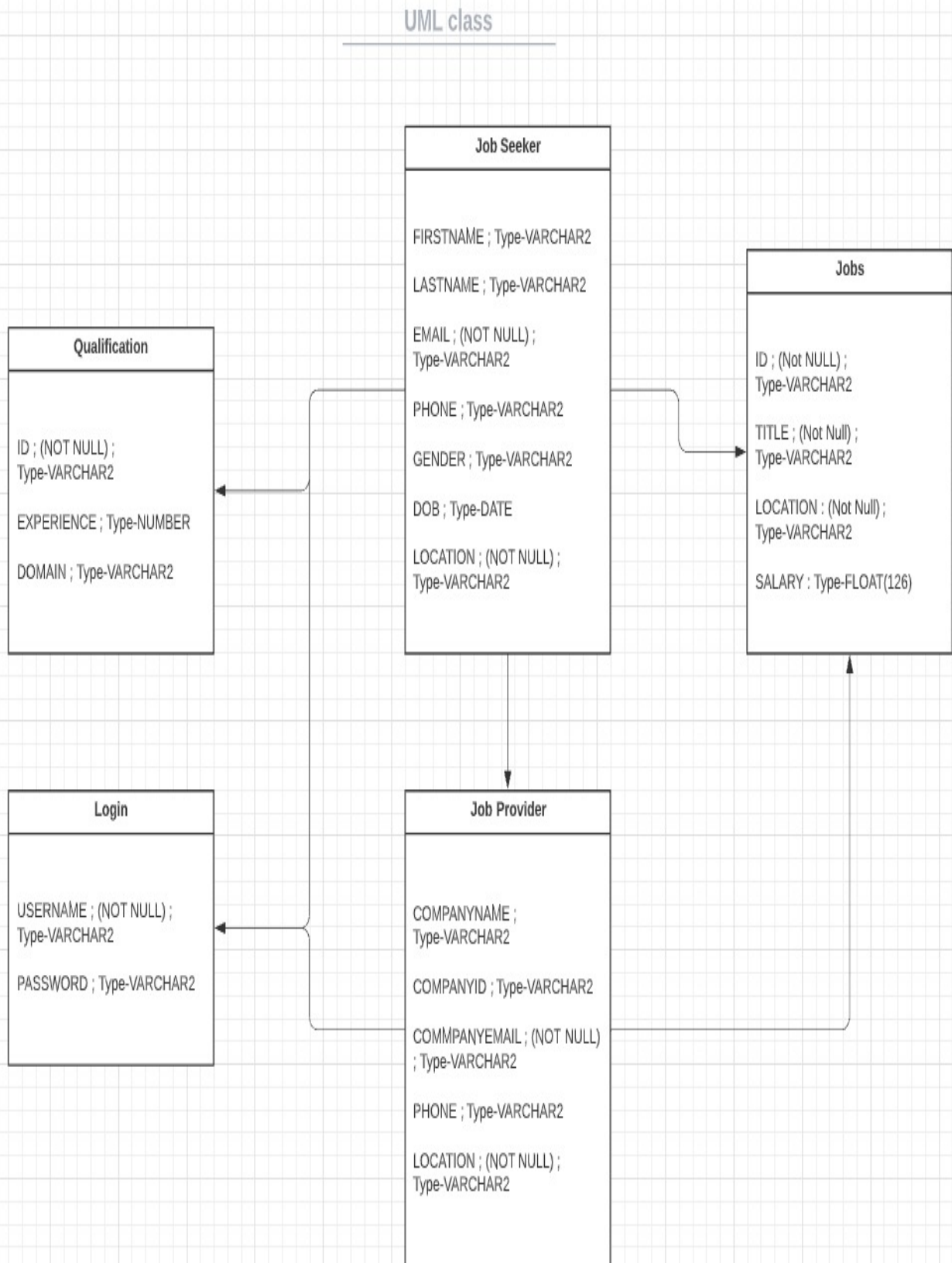
3. SYSTEM REQUIREMENTS

Hardware System Configuration:

Requirements	Value
Processor	Core i3
Speed	2 GHz or higher
RAM	256 MB or higher
Hard Disk	20 GB or higher

Software System Configuration:

Requirements	Value
Operating System	Ubuntu 18.04/Windows 7/NT/2000
System Architecture	Intel(x86), AMD64 and Intel EM64T
Developing Tool	JDK 17
Database	MYSQL 5.7

4. UML CLASS DIAGRAM

UML class

Job Seeker

FIRSTNAME ; Type-VARCHAR2

LASTNAME ; Type-VARCHAR2

EMAIL ; (NOT NULL) ;
Type-VARCHAR2

PHONE ; Type-VARCHAR2

GENDER ; Type-VARCHAR2

DOB ; Type-DATE

LOCATION ; (NOT NULL) ;
Type-VARCHAR2

Jobs

ID ; (Not NULL) ;
Type-VARCHAR2

TITLE ; (Not Null) ;
Type-VARCHAR2

LOCATION : (Not Null) ;
Type-VARCHAR2

SALARY : Type-FLOAT(126)

Qualification

ID ; (NOT NULL) ;
Type-VARCHAR2

EXPERIENCE ; Type-NUMBER

DOMAIN ; Type-VARCHAR2

Login

USERNAME ; (NOT NULL) ;
Type-VARCHAR2

PASSWORD ; Type-VARCHAR2

Job Provider

COMPANYNAME ;
Type-VARCHAR2

COMPANYID ; Type-VARCHAR2

COMMPANYEMAIL ; (NOT NULL)
; Type-VARCHAR2

PHONE ; Type-VARCHAR2

LOCATION ; (NOT NULL) ;
Type-VARCHAR2

5. DATABASE SCHEMA

JOB SEEKER

NAME	NULL?	TYPE
FIRST NAME		VARCHAR2(20)
LAST NAME		VARCHAR2(20)
EMAIL	NOT NULL	VARCHAR2(30)
PHONE		VARCHAR2(10)
GENDER		VARCHAR2(6)
DOB	NOT NULL	DATE
LOCATION		VARCHAR2(20)

JOB PROVIDER

NAME	NULL ?	TYPE
COMPANY NAME		VARCHAR2(50)
COMPANY ID		VARCHAR2(15)
COMPANY MAIL	NOT NULL	VARCHAR2(30)
PHONE		VARCHAR2(10)
LOCATION	NOT NULL	VARCHAR2(20)

JOBS

NAME	NULL?	TYPE
ID	NOT NULL	VARCHAR2(25)
TITLE	NOT NULL	VARCHAR2(25)
LOCATION	NOT NULL	VARCHAR2(20)
SALARY		FLOAT(126)

QUALIFICATION

NAME	NULL?	TYPE
ID	NOT NULL	VARCHAR2(30)
EXPERIENCE		NUMBER
DOMAIN		VARCHAR2(30)

LOGIN

NAME	NULL?	TYPE
USERNAME	NOT NULL	VARCHAR2(30)
PASSWORD		VARCHAR2(20)

6. ER Diagram

7. USE CASE DIAGRAM

update jobs

checks users who applied

post requirements

register

login/logout

update profile

seeks

JOB PROVIDER

view job plans

view company info

apply for job

JOB SEEKER
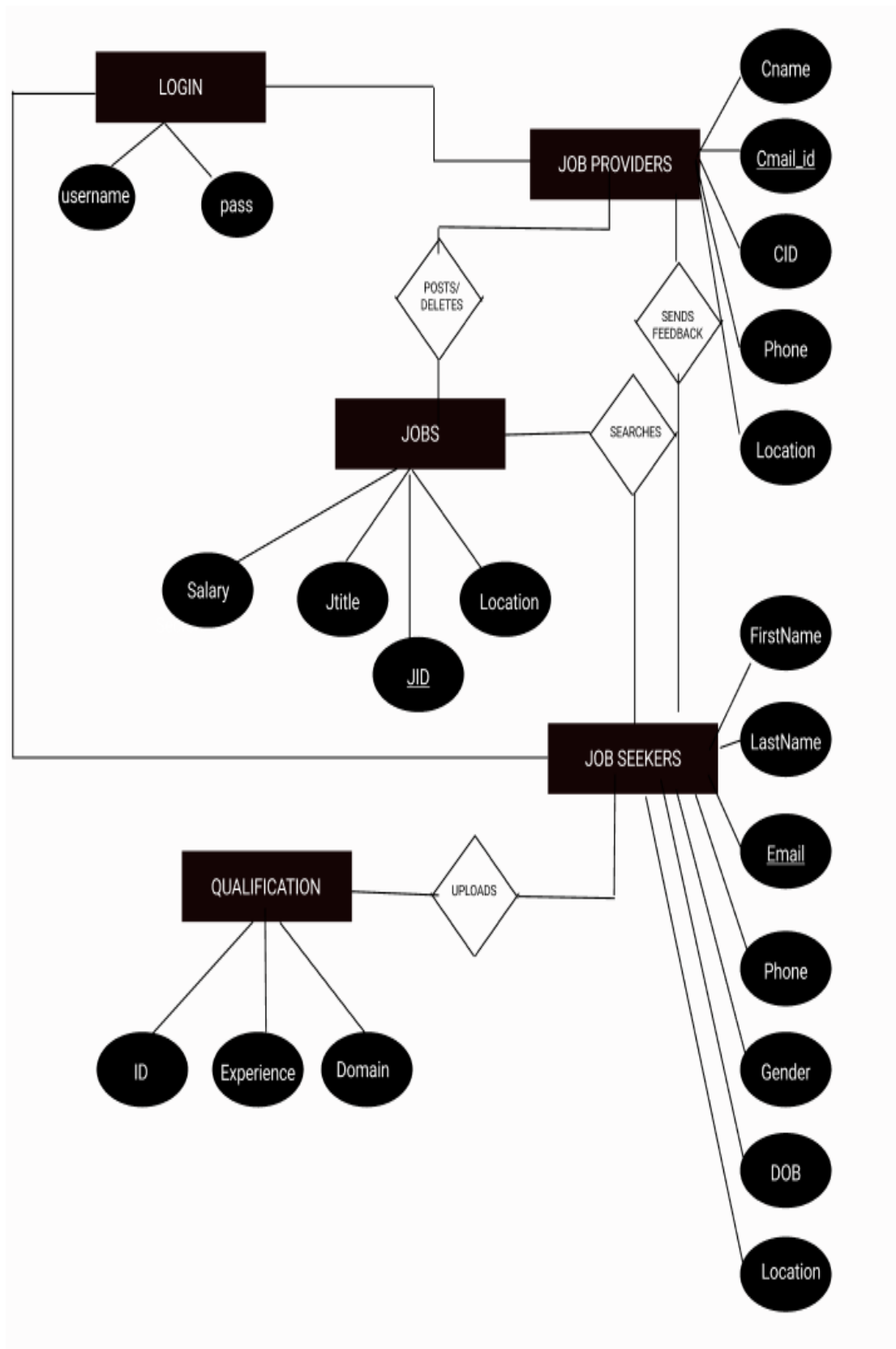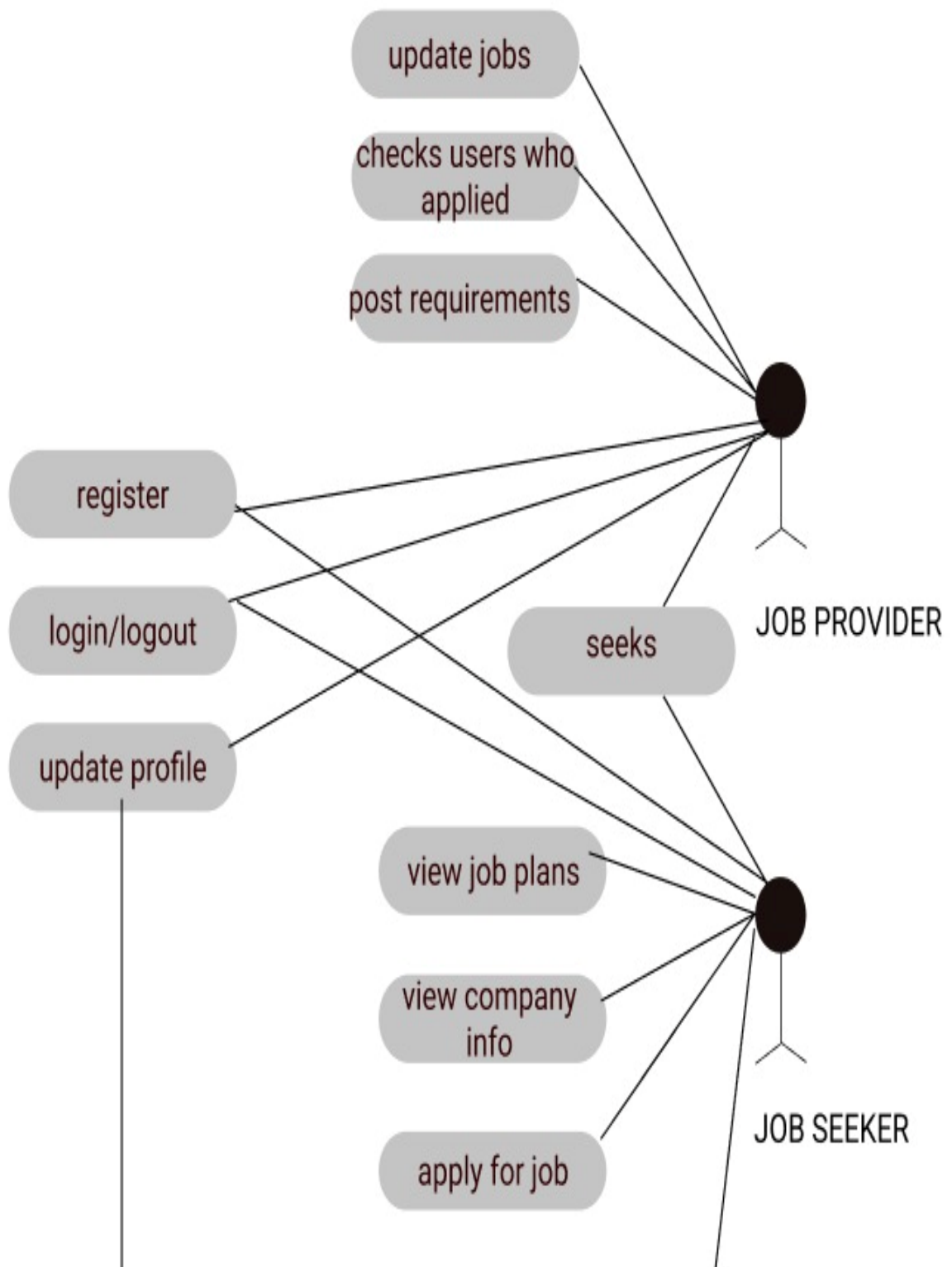
8. MODULE DESCRIPTIONS

There are 5 different tables in the database :

1.Qualifications

This module stores the qualifications of the candidate and details like :

- **ID :** This is the primary key of this database and is set to Not Null mode, and is mandatory to fill out. The type is VARCHAR2

- **EXPERIENCE :** This column is used to type in the experience (Years) of the job seeker , and the mode is set to NUMBER

- **DOMAIN :** This column is used to set the field the job seeker is in and is set to the type VARCHAR2

2.Jobs

This module is used to store the variety of jobs being provided by the job providers and contains details like :

- **ID :** This is the primary key of this database and is set to Not Null mode, and is mandatory to fill out. The type is VARCHAR2

- **TITLE :** This is the job title set by the job provider .This is a mandatory field and is of the type VARCHAR(25)

- **LOCATION :** This is a foreign key of the database and is set to Not

Null and shows the location of the company. The type is set to VARCHAR(20)

- **SALARY :** This column sets the salary amount being provided for the job by the company and the type is set to FLOAT

3.Login

This module is used to facilitate a login option for the job seekers and saves these values:

- **USERNAME :** This is the name of the job seeker and is a mandatory field . It is of the type VARCHAR(30)

- **PASSWORD :** This stores the password of each job seeker and is used to verify the identity of the user. This is of the type VARCHAR(20)

4.Job Seeker

This module is used to store the details of the job seeker and has a variety of values like:

- **FIRSTNAME :** This stores the first name of the job seeker and it is of the type VARCHAR(20)

- **LASTNAME :** This stores the last name of the job seeker and is of the type VARCHAR(20)

- **EMAIL :** This stores the email address of the job seeker and acts as

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the primary key of the database. This is a mandatory field and is of the type VARCHAR(30)

- **PHONE :** This field stores the phone number of the job seeker and is of the type VARCHAR(10)

- **GENDER :** This field stores the gender of the Job Seeker and is of the type VARCHAR(6)

- **DOB :** This field stores the date of birth of the job seeker. This is a mandatory field and is of the type of DATE

- **LOCATION :** This field stores the present location of the job seeker and helps search through databases to find jobs close to the user. It is of the type VARCHAR(20)

5.Job Provider

This table is used to store the details of the companies that posts jobs and has values like:

- **COMPANYNAME :** This stores the name of the company that posts jobs and is of the type VARCHAR(30)

- **COMPANYID :** This stores the ID of the company and is of the type VARCHAR(15)

- **COMPANYMAIL :** This stores the HR email id of the company and is a mandatory field. This is of the type VARCHAR(30)

- **PHONE :** This stores the official phone number of the company and

is of the type VARCHAR(10)

- **LOCATION :** This shows the location of the company and is a mandatory field. This is of the type VARCHAR(20)

9. GRAPHICAL USER INTERFACE

The graphical user interface consists of multiple pages that makes it very easy for a job seeker to find a new job from the job provider. The first page is a login page that provides the option to type in the email and the password. There is also an option to go for a company login for the enterprise customers. There is an option to sign up for the service if it is a new user or job provider. The user interface is beautiful to look at with interesting graphics and text to help guide the user to the login sections.

The next page is the main signup page where you type in all the details

like personal data. The page has a pleasant color scheme and contains details to fill in like First Name, Last Name , Email ID, Date of Birth, etc:

There is also the option to fill in academic qualifications and fill in the login credentials like password and username.

Once the relevant details are filled in , there is a submit option which saves the data to the database.

In case of a new job provider login, there is the option to type in the company name , the company id, and other relevant details like location. Then type in the login credentials like the password and username and click submit.
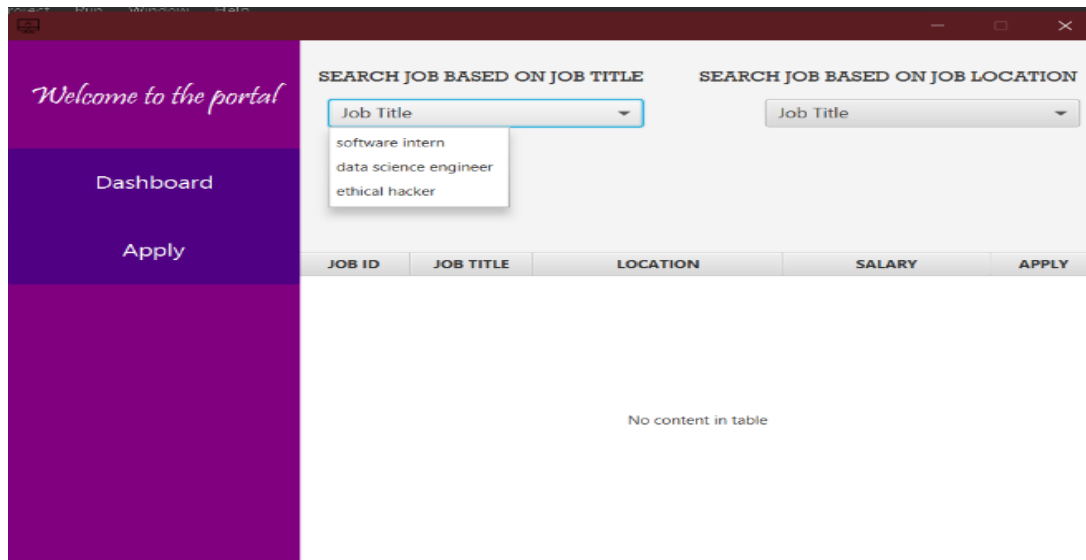
This is the main home page of the system and contains ways to sort through the database of jobs and find ones close to the job seeker. There is also an option to search through the database and find a specific job from the list. The details of the job seeker can also be viewed from this
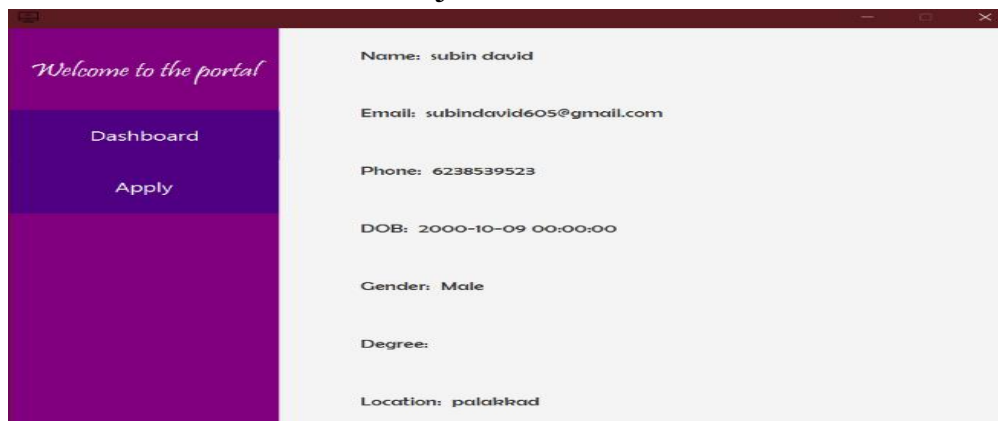
interface and the relevant details can be extracted. The job seeker could apply for the jobs they prefer and could wait until they receive a feedback.

10. CONCLUSION

At last, it can be concluded that the Online Job portal System was a real learning experience. The principles of software production were well implanted throughout the system. The whole project undergoes with full enthusiasm. The project has been made as per as the given specification. The system has been made user friendly as possible by the use of HCIU principles. That is why Management holds an important place in the software production.

Working on the project was really a learning experience and we have come a long way in building our concept of Software engineering. The Project developed by us is purely based on Java. The overall purpose of this system is to computerize the whole process and thus prevent the intervening errors. We also tried to follow the holistic design principle so that the interface of the system is simple.

During the course of this assignment, we have gone through many obstacles which made us to research and increase our knowledge. After applying all the data modeling, object modeling and modeling techniques now we are clear with the concepts and fundamentals.

11. REFERENCES

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