PNT2022TMID12203	
IBM – NALAIYA THIRAN PROJECT	
SKILL JOB RECOMMENDER APPLICATION	

ABSTRACT

In the last years, job recommender systems have become popular since they successfully reduce information overload by generating personalized job suggestions. Although in the literature exists a variety of techniques and strategies used as part of job recommender systems, most of them fail to recommending job vacancies that fit properly to the job seekers profiles. Thus, the contributions of this work are threefold, we: i) made publicly available a new dataset formed by a set of job seekers profiles and a set of job vacancies collected from different job search engine sites; ii) put forward the proposal of a framework for job recommendation based on professional skills of job seekers; and iii) carried out an evaluation to quantify empirically the recommendation abilities of two state-of-the-art methods, considering different configurations, within the proposed framework. We thus present a general panorama of job recommendation task aiming to facilitate research and real-world application design regarding this important issue.

There has been a sudden boom in the technical industry and an increase in the number of good startups. Keeping track of various appropriate job openings in top industry names has become increasingly troublesome. This leads to deadlines and hence important opportunities being missed. Through this research paper, the aim is to automate this process to eliminate this problem. To achieve this, IBM cloud services like db2, Watson assistant, cluster, Kubernetes have been used. A hybrid system of Content-Based Filtering and Collaborative Filtering is implemented to recommend these jobs. The intention is to aggregate and recommend appropriate jobs to job seekers, especially in the engineering domain. The entire process of accessing numerous company websites hoping to find a relevant job opening listed on their career portals issimplified. The proposed recommendation system is tested on an array of test cases with a fully functioning user interface in the form of a web application. It has shown satisfactory results, outperforming the existing systems. It thus testifies to the agenda of quality over quantity

TABLE OF CONTENT

CHAPTER	CONTENTS	PAGE NO
1	INTRODUCTION	05
1	1.1 PROJECT OVERVIEW	
	1.2 PURPOSE	
2	LITERATURE SURVEY	06
2	2.1 EXISTING PROBLEM	
	2.2 REFERENCES	
	2.3 PROBLEM STATEMENT DEFINITION	
	IDEATION & PROPOSED SOLUTION	09
	3.1 EMPATHY MAP CANVAS	
3	3.2 IDEATION & BRAINSTROMING	
	3.3 PROPOSED SOLUTION	
	3.4 PROBLEM SOLUTION FIT	
	REQUIREMENT ANALYSIS	15
_	4.1 FUNCTIONAL REQUIREMENT	
4	4.2 NON-FUNCTIONAL REQUIREMENTS	
	PROJECT DESIGN	17
	5.1 DATA FLOW DIAGRAMS	
5	5.2 SOLUTION & TECHNICAL	
	ARCHITECTURE	
	5.3 USER STORIES	

	PROJECT PLANNING & SCHEDULING	20
6	6.1 SPRINT PLANNING & ESTIMATION	
	6.2 SPRINT DELIVERY SCHEDULE	
	6.3 REPORTS FROM JIRA	
	CODING & SOLUTIONING	24
7	7.1 FEATURE 1	
,	7.2 FEATURE 2	
	7.3 DATABASE SCHEMA	
	TESTING	36
	8.1 TEST CASES	
8	8.2 USER ACCEPTANCE TESTING	
	RESULTS	38
9	9.1 PERFORMANCE METRICS	
10	ADVANTAGES & DISADVANTAGES	40
	CONCLUSION	41
11	Correlation	
	FUTURE SCOPE	42
12		

PROJECT REPORT FORMAT

1.INTRODUCTION

1.1 PROJECT OVERVIEW

Nowadays, job search is a task commonly done on the Internet using job search engine sites like LinkedIn1, Indeed2, and others. Commonly, a job seeker has two ways to search a job using these sites: 1) doing a query based on keywords related to the job vacancy that he/she is looking for, or 2) creating and/or updating a professional profile containing data related to his/her education, professional experience, professional skills and other, and receive personalized job recommendations based on this data. Sites providing support to the former case are more popular and have a simpler structure; however, their recommendations are less accurate

than those of the sites using profile data.

1.2 PURPOSE

Having lots of skills but wondering which job willbest suit you? Don't need to worry! we have come up with a skill recommender solution through whichthe fresher or the skilled person can login and find the jobs by using search option or they can directly interact with the chatbot and get their dream job.

To develop an end to end web application capable odisplaying the current job openings based on the skillset of the users. The users and their information are stored in the Database. An alert is sent when there is an opening based on the user skillset. User will interact with the chatbot and can get the recommendations based on his skills. We can use jobsearch API to get the current job openings in the market which will fetch the data directly from the webpage.

2.LITERATURE SURVEY

2.1 EXISTING PROBLEM

- 1. Students/Job seekers find their desired job based ontheir skillset.
- 2. Integrating Intelligent CHATBOT for job recommendation application.
- 3. A study of LinkedIn as an Employment Tool for Jobseeker & Recruiter.
- 4. Cloud storage and sharing services.

2.2 REFERENCES

- 1. https://www.researchgate.net/publication/325697854_Job_Recommendation_based_on_Job_Seeker_Skills_An Empirical Study
- 2. https://smartinternz.com/saas-guided-project/1/skill-job-recommender
- https://www.semanticscholar.org/paper/Job-Recommendation-Based-on-Job-Seeker-Skills%3A-An-Valverde-Rebaza-Puma/3d49cb87fde48591a1c1a2ef088d885c4480adbf

2.3 PROBLEM STATEMENT DEFINITION

Dealing with the enormous amount of recruiting information on the internet, a job seeker always spends hours to find useful ones. Many times, people who lack industry knowledge are unclear about what exactly they need to learn in order to get a suitable job for them. We address the problem of recommending suitable jobs to people who are seeking a new job.

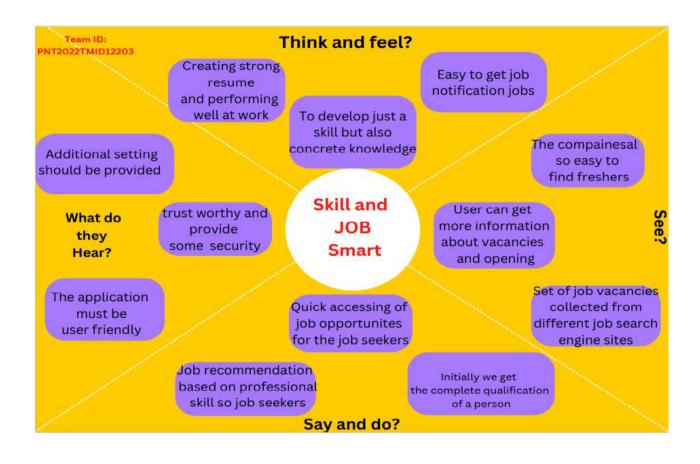
Job recommender technology aims to help job seekers infinding jobs that match their skills.

The internet caused a substantial impact on the recruitment process through the creation of e-recruiting platforms that become a primary recruitment channel in most companies. While companies established job positions on these portals, job-seeker uses them to publishtheir profiles. E-Recruitment platforms accomplished clear advantages for both recruiters and job-seekers by reducing the recruitment time and advertisement cost

.Recommender system technology aims to help users in finding items that match their preferences; it has a successful usage in a wide-range of applications to deal with problems related to information overload efficiently. In order to improve the erecruiting functionality, many recommender system approaches have been proposed. This paper will analyze e-recruiting process and related issues for building personalized recommender system of candidates.

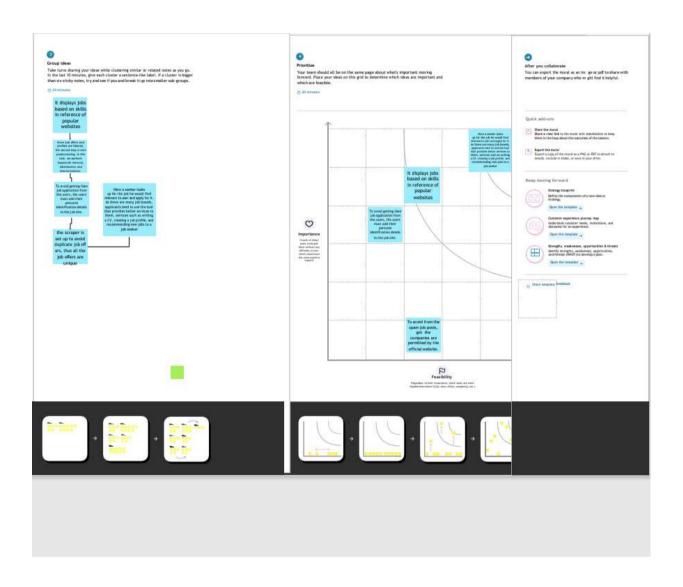
3.IDEATION AND PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS



3.2 IDEATION AND BRAINSTORMING





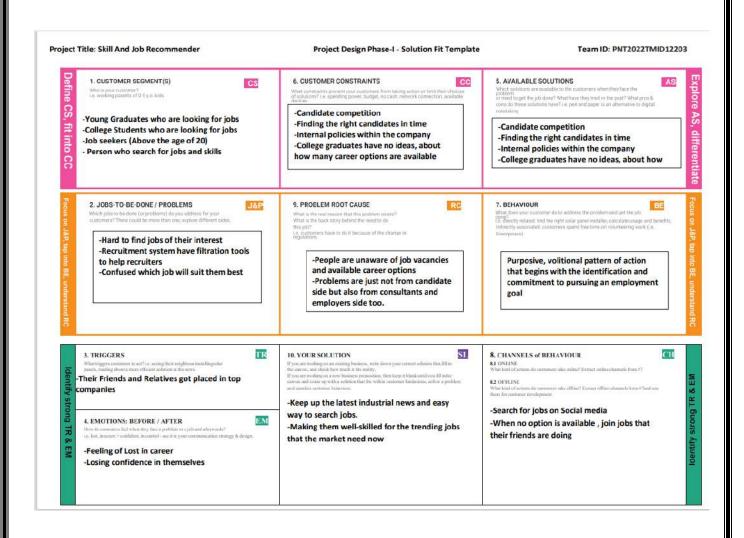
3.3 PROPOSED SOLUTON

Team ID	PNT2022TMID12203
Project Name	SKILL/JOB RECOMMENDER
	APPLICATION

S.No	Parameter	Description	
1.	Problem Statement (Problem to be solved)	Having lots of skills but wondering which job will best suit you? Don't need to worry! We have come up with a skill recommender solution through which the fresher or the skilled person can log in and find the jobs by using the search option or they can directly interact with the chat bot and get their dream job. To develop an end-to-end web application capable of displaying the current job openings based on the user skillset. The user and their information are stored in the Database. An alert is sent when there is an opening based on the user skillset. Users will interact with the chat bot and can get the recommendations based on their skills. We can use a job search API to get the current job openings in the market which will fetch the data directly from the webpage.	
2.	Idea / Solution description	The contributions of this wok are threefold, we: i) made publicly available a new dataset formed by a set of job seekers profiles and a set of job vacancies collected from different job search engine sites	
		ii) put forward the proposal of a framework for job recommendation based on professional skills of job seekers	
		iii) Called out an evaluation to quantify empirically the recommendation abilities of two state-of-theart methods, considering different configurations, within the proposed framework.	
		We thus present a general panorama of job recommendation task aiming to facilitate research and ideal- world application design regarding this important issue.	

3.	Novelty / Uniqueness	The best positions are suggested to any person according to her skills. While the position of known profiles is assumed to be correct, it should be noted that there are usually multiple advisable positions corresponding to a set of skills. A recommendation system should return a set of most likely positions and all of them can be equally valid. The recommendation method we use is simply based on representing both positions and profiles as comparable vectors and seeking for each profile the positions with the most similar vectors.
4.	Social Impact / Customer Satisfaction	Students will be benefited as they will get to know which job suits them based on their skill set and therefore Lack of Unemployment can Be reduced.
5.	Business Model (Revenue Model)	We can provide the application for job seekers in a subscription based and we can share the profiles with companies and generate the revenue by providing them best profiles.
6.	Scalability of the Solution	Data can be scaled up and scaled down according to number of current job openings available.

3.4 PROBLEM STATEMENT FIT



4. REQUIREMENT ANALYSIS

4.1 Function Requirement

Software Required:

Python, Flask, Docker.

4.2 Non-Function Requirement

System Required:

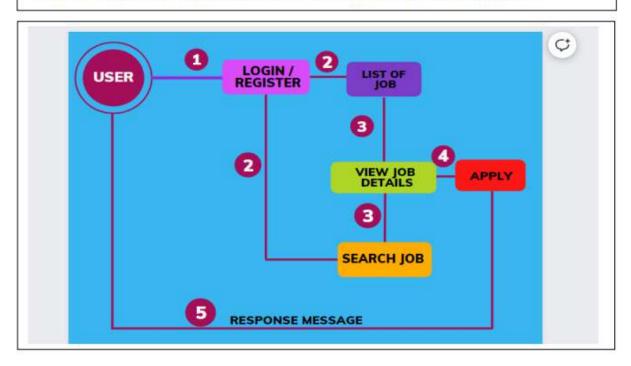
8GB RAM, Intel Core i3, OS-Windows/Linux/MAC, Laptop or Desktop.

5.PROJECT DESIGN

5.1 DATA FLOW DIAGRAM

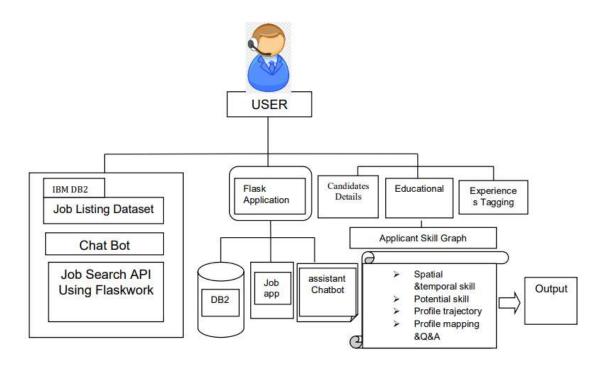
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, What changes the information, and where data is stored.

DATA FLOW DIAGRAM FOR JOBS RECOMMENDED APPLICATION

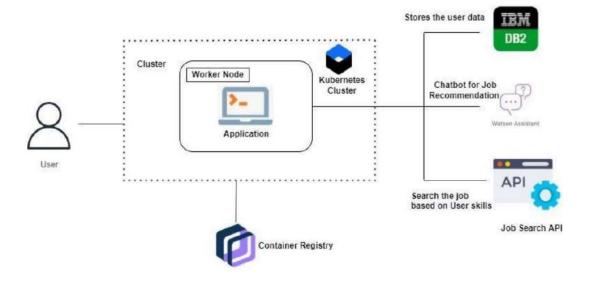


5.2 SOLUTION AND TECHINAL ARCHITECTURE

SOLUTION ARCHITECTURE



TECHNICAL ARCHITECTURE



5.3 USER STORIES

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
8		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
> :1		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can access my data by login	High	Sprint-1
8	Dashboard	USN-6	As a user , I can view the dashboard and by products		High	Sprit -2
Customer (Web user)	Registration / Login	USN-7	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard		Sprint -1
Customer Care Executive	Contact with Customers	USN-8	As a Customer customers care executive, I solve the customer Requirements and feedback	I can receive calls from customers	High	Sprint-1

Administrator	Check stock and USN_9 Price, orders	As a Administrator , I can Check the database And stock details and buying and selling prices	I am the administrator of the company	High	Sprint -2
---------------	--	---	--	------	-----------

6.PROJECT PLANNING AND SCHEDULING

6.1 SPRINT PLANNING AND ESTIMATION

SPRINT	FUNCTIONAL REQUIREMENT (EPIC)	USER STORY NUMBER	DESCRIPTION	STORY POINTS	PRIORITY	TEAM MEMBERS
Sprint-1	Login (Job Seeker)	USN-1	User must login to look for a suitablejob	10	High	Bavithra.v, Divya Shree.R.R
Sprint-1	Login (Organization)	USN-2	Organization can find a candidate for their Organization	10	High	Divya Shree.R.R
Sprint-2	Dashboard	usn-3	User can create their job profile & look for job by attending eligible test. If usergets required mark, they will be invited to participate ininterview.	20	Medium	Bavithra.Y
Sprint-3	Dashboard	USN-4	Organization can look for candidatebased on their skill set	20	Medium	Bavithra.Y
Sprint-4	Chat BOT	USN-5	If User faces any difficulties,they can get help by Chabot	20	High	Divya Shree.R.R, V.Bavithra

6.2 SPRINT DELIVERABLES SCHEDULE

Sprint	Total Story Point s	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	27 Oct 2022	02 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	03 Oct 2022	09 Nov 2022	20	05 Nov 2022
Sprint-3	20	4 Days	10 Nov 2022	14 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

VELOCITY:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let'scalculate the team's averagevelocity (AV) per iteration unit (story points per day)

6.3 Report from JIRA

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

7.CODING AND SOLUTIONING

7.1 FEATURE 1

JOB SEEKER

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Example</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
<style>
.rus{
border-radius: 0%
};
.black{ color:black;
</style>
</head>
<body>
<!----->
<nav class="navbar navbar-inverse rus">
<div class="container-fluid">
<div class="navbar-header">
<a class="navbar-brand" href="#">Skill and Job Recommender</a>
</div>
<a href="#"><span class="glyphicon glyphicon-log-in"></span> Log out</a>
</div>
</nav>
<!----->
<div class="container">
<a data-toggle="tab" href="#home">Profile</a>
<a data-toggle="tab" href="#menu1">Eligibility Test</a>
<a data-toggle="tab" href="#menu2">Find Job</a>
```

```
PNT2022TMID12203
<div class="tab-content">
<div id="home" class="tab-pane fade in active">
<h3>PROFILE</h3>
<hr>>
<form>
<div class="alert alert-danger">
<div class="form-group">
<label for="name"><span clss="black">Name: </span></label>
<input type="text" class="form-control" id="name" value="Mahadevan">
</div>
<div class="form-group">
<label for="email"><span class="black">Email Address </span></label>
<input type="text" class="form-control" id="email" value="Mahadevan@gmaiil.com">
</div>
<div class="form-group">
<label for="email"><span class="black">Mobile No </span></label>
<input type="text" class="form-control" id="email" value="9003824096">
</div>
<div class="form-group">
<label for="quali"><span class="black">What is your Nationality
</span></label>
<input type="text" class="form-control" id="quali" value="India">
</div>
<div class="form-group">
<label for="quali">What is your Qualification</label>
<input type="text" class="form-control" id="quali" value="BE">
</div>
<div class="form-group">
<label for="quali">What year did you complete your bachelor Degree?</label>
<input type="text" class="form-control" id="quali" value="2023">
</div>
?</label>
<div class="form-group">
<label for="experience">How many years of work experience do you have
<input type="text" class="form-control" id="experience" value="0">
</div>
<div class="form-group">
<label for="place">Where have you graduated high school degree ?</label>
<input type="text" class="form-control" id="place" value="Government high school Ariyalur">
</div>
```

```
PNT2022TMID12203
<div class="form-group">
<label for="SSLC">What is your SSLC Percentage :</label>
<input type="text" class="form-control" id="SSLC" value="90">
</div>
<div class="form-group">
<label for="HSC">What is your HSC Percentage :</label>
<input type="text" class="form-control" id="HSC" value="90">
</div>
<div class="form-group">
<label for="degree">What is your Percentage in bachelor Degree:</label>
<input type="text" class="form-control" id="degree" value="90.5">
</div>
<textarea class="form-control" id="aboutyou" rows="3" placeholder="Write few words about
yourself"></textarea> <br> <br>
<button type="submit" class="btn btn-primary btn-success">Save changes</button> <br> <br> <br> <br> <br >
</div>
</form>
</div>
<div id="menu1" class="tab-pane fade">
<h3>Eligibility Test </h3> <hr>
<div class="alert alert-info">
<label>What function is used to display output on the screen?</label>
<div class="radio">
<label><input type="radio" name="print">printf()</label>
</div>
<div class="radio">
<label><input type="radio" name="scanf">scanf()</label>
</div>
<div class="radio">
<label><input type="radio" name="switch">switch</label>
</div>
</div> <hr>
<div class="alert alert-info">
<label>What function is used to display output on the screen?</label>
<div class="radio">
<label><input type="radio" name="print">printf()</label>
</div>
<div class="radio">
<label><input type="radio" name="scanf">scanf()</label>
</div>
<div class="radio">
<label><input type="radio" name="switch">switch</label>
</div>
</div> <hr>
```

```
PNT2022TMID12203
<div class="alert alert-info">
<label>What function is used to display output on the screen?</label>
<div class="radio">
<label><input type="radio" name="print">printf()</label>
</div>
<div class="radio">
<label><input type="radio" name="scanf">scanf()</label>
</div>
<div class="radio">
<label><input type="radio" name="switch">switch</label>
</div>
</div> <hr>
<div class="alert alert-info">
<label>What function is used to display output on the screen?</label>
<div class="radio">
<label><input type="radio" name="print">printf()</label>
</div>
<div class="radio">
<label><input type="radio" name="scanf">scanf()</label>
</div>
<div class="radio">
<label><input type="radio" name="switch">switch</label>
</div>
</div> <hr>
<div class="alert alert-info">
<label>What function is used to display output on the screen?</label>
<div class="radio">
<label><input type="radio" name="print">printf()</label>
</div>
<div class="radio">
<label><input type="radio" name="scanf">scanf()</label>
</div>
<div class="radio">
<label><input type="radio" name="switch">switch</label>
</div>
</div><hr>
<div class="alert alert-info">
<label>What function is used to display output on the screen?</label>
<div class="radio">
<label><input type="radio" name="print">printf()</label>
</div>
<div class="radio">
<label><input type="radio" name="scanf">scanf()</label>
</div>
<div class="radio">
<label><input type="radio" name="switch">switch</label>
</div>
</div>
```

```
PNT2022TMID12203
<button type="submit" class="btn btn-primary btn-success">Submit the test</button> <br>
<br>
</div>
<div id="menu2" class="tab-pane fade">
<h3>Find the job</h3> <hr>
<br>
 job">
<div class="container">
<! >
<form>
<div class="input-group">
<input type="text" class="form-control" id="myInput" placeholder="Look for a</pre>
<div class="input-group-btn">
<button class="btn btn-default" type="submit">
<i class="glyphicon glyphicon-search"></i></i>
</button>
</div>
</div>
</form> <br> <br>>
<! >
<div style="width: 600px;">
<!-- Left-aligned -->
<div class="media">
<div class="media-left">
<img src="images/img_avatar1.png" class="media-object" style="width:60px">
</div>
<div class="media-body">
<h4 class="media-heading">Java Developer</h4>
<h5 class="media-heading"> Company Name : JK Software Solution</h4>
Job Location : Chennai
 Salary : 45000
<button type="submit" class="btn btn-primary btn-success">Apply </button>
<br> <br> <br>>
</div>
</div>
</div>
<br>
```

```
PNT2022TMID12203
<div style="width: 600px;">
<!-- Left-aligned -->
<div class="media">
<div class="media-left">
<img src="images/img_avatar1.png" class="media-object" style="width:60px">
</div>
<div class="media-body">
<h4 class="media-heading">.NET Developer</h4>
<h5 class="media-heading"> Company Name : JK Software Solution</h4>
Job Location : Chennai
 Salary : 45000
<button type="submit" class="btn btn-primary btn-success">Apply </button>
</div>
 </div>
</div>
<div style="width: 600px;">
<!-- Left-aligned -->
<div class="media">
<div class="media-left">
<img src="images/img_avatar1.png" class="media-object" style="width:60px">
</div>
<div class="media-body">
<h4 class="media-heading">PHP Developer</h4>
<h5 class="media-heading"> Company Name : JK Software Solution</h4>
Job Location : Chennai
 Salary : 45000
<button type="submit" class="btn btn-primary btn-success">Apply </button>
<br >
</div>
</div>
</div>
<div style="width: 600px;">
<!-- Left-aligned -->
<div class="media">
<div class="media-left">
<img src="images/img_avatar1.png" class="media-object" style="width:60px">
</div>
<div class="media-body">
<h4 class="media-heading">UX /UI Designer</h4>
<h5 class="media-heading"> Company Name : JK Software Solution</h4>
Job Location : Chennai
 Salary : 45000
<button type="submit" class="btn btn-primary btn-success">Apply </button>
<br >
</div>
</div>
</div>
</div>
```

```
<script>
    $(document).ready(function(){
    $("#myInput").on("keyup", function() { var value = $(this).val().toLowerCase();
    $("#myDIV *").filter(function() {
    $(this).toggle($(this).text().toLowerCase().indexOf(value) > -1)
    });
    });
    });
    </script>
    </body>
    </html>
```

BACK END FEATURE 1

```
from flask import *#importing flask (Install it using python -m pip install flask) import
import ibm_db import bcrypt
#import send from directory
app = Flask( name ) #initialising flask app.secret_key = ''
PEOPLE_FOLDER = os.path.join('static', 'people_photo')
import ibm db
conn = ibm db.connect("DATABASE=bludb;HOSTNAME=54a2f15b-5c0f-46df-8954-
7e38e612c2bd.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32733;SECURITY=SSL;S
SLServerCertificate=DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=phb43134;PWD=mTTnIE45
Raj9A0rr",'','')
@app.route("/") #defining the routes for the home() funtion (Multiple routes can be used as
seen here)
@app.route("/home")
def dashboard():
return render_template("dashboard.html") #rendering our home.html contained within
/templates
def createjobseeker_profile(): if request.method == 'POST':
name = request.form['name'] email = request.form['email']
mobileno=request.form['mobileno'] nationality=request.form['nationality']
qualification=request.form['qualification'] passout=request.form['passout']
experience=request.form['experience"]; degree=request.form['degree'];
per_sslc=request.form['per_sslc']; per_hsc=request.form['per_hsc'];
per degree=request.form['per degree'];
tum = request.files['resume']
tum.save(os.path.join(app.config['UPLOAD_DIR'],tum.filename))
hash=bcrypt.hashpw(password.encode('utf-8'),bcrypt.gensalt())
query = "SELECT EMAIL FROM JOBSEEKER WHERE EMAIL=?"
stmt = ibm_db.prepare(conn, query) ibm_db.bind_param(stmt,1,email) ibm_db.execute(stmt)
isUser = ibm_db.fetch_assoc(stmt)
```

```
PNT2022TMID12203
if not isUser:
insert_sql = "INSERT INTO JOBSEEKER (name, email, mobileno, nationality, qualification,
passout, experience, degree,per_sslc,per_hsc,per_degree) VALUES (?,?,?,?,?,?,?,?,?,?,?)"
prep_stmt = ibm_db.prepare(conn, insert_sql) ibm_db.bind_param(prep_stmt, 1, name)
ibm_db.bind_param(prep_stmt, 2, email)
ibm_db.bind_param(prep_stmt, 3, mobileno)
ibm_db.bind_param(prep_stmt, 4, nationality)
ibm_db.bind_param(prep_stmt, 5, qualification)
ibm_db.bind_param(prep_stmt, 6, passout)
ibm_db.bind_param(prep_stmt, 7, experience)
ibm_db.bind_param(prep_stmt, 8, degree)
ibm_db.bind_param(prep_stmt, 9, per_sslc)
ibm db.bind param(prep stmt, 10, per hsc)
ibm_db.bind_param(prep_stmt, 11, per_degree) ibm_db.execute(prep_stmt)
return render_template('dashboard.html')
return render_template('dashboard.html', name='Home')
@app.route('/logout') def logout():
session.pop('email', None) return redirect(url_for('login'))
```

Feature 2

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-</pre>
scale=1">
  <link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootst
rap.min.css">
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.m
in.js"></script>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstra
p.min.js"></script>
  <style>
    .rus{
        border-radius: 0%
    };
    .black{
      color:black;
    }
</style>
</head>
<body>
<nav class="navbar navbar-inverse rus">
    <div class="container-fluid">
      <div class="navbar-header">
```

```
<a class="navbar-brand" href="#">Skill and Job
Recommender</a>
     </div>
     <a href="#"><span class="glyphicon glyphicon-log-</pre>
in"></span> Log out</a>
     </div>
 </nav>
<div class="container">
 <a data-toggle="tab" href="#home">Company
Profile</a>
   <a data-toggle="tab" href="#menu2">Find
candidate</a>
 <div class="tab-content">
   <div id="home" class="tab-pane fade in active">
     <h3>COMPANY PROFILE</h3>
     <hr>
     <form>
       <div class="alert alert-danger">
       <div class="form-group">
          <label for="name"><span clss="black">Company Name:
</span></label>
          <input type="text" class="form-control" id="name"</pre>
value="Mahadevan">
        </div>
        <div class="form-group">
```

```
<label for="email"><span class="black">Company Email
Address </span></label>
             <input type="text" class="form-control" id="email"</pre>
value="Mahadevan@gmaiil.com">
          </div>
          <div class="form-group">
             <label for="email"><span class="black">Mobile No
</span></label>
             <input type="text" class="form-control" id="email"</pre>
value="9003824096">
          </div>
          <div class="form-group">
             <label for="quali"><span</pre>
class="black">Location</span></label>
             <input type="text" class="form-control" id="quali"</pre>
value="India">
          </div>
          <textarea class="form-control" id="aboutyou" rows="3"</pre>
placeholder="Write few words about company"></textarea> <bre>
<br>
          <button type="submit" class="btn btn-primary btn-</pre>
success">Save changes</putton> <br> <br>>
          </div>
        </form>
    </div>
   <div id="menu2" class="tab-pane fade">
      <h3>Find the Condidate</h3> <hr>
      <br>
```

```
<div class="container">
     <!_____
     <form>
     <div class="input-group">
      <input type="text" class="form-control" id="myInput"</pre>
placeholder="Look for a candidate">
<div class="input-group-btn">
                         <button class="btn btn-default"</pre>
type="submit">
                            <i class="glyphicon glyphicon-</pre>
search"></i>
                         </button>
                       </div>
                     </div>
                   </form> <br> <br>>
     <!____>
     <div style="width: 600px;">
                       <!-- Left-aligned -->
                       <div class="media">
                         <div class="media-left">
                            <img src="images/img avatar1.png"</pre>
class="media-object" style="width:60px">
                         </div>
                         <div class="media-body">
                            <h4 class="media-heading">Name :
Mahadevan</h4>
         <h5 class="media-heading"> Qualification : B.E
(Computer Science Engineering ) </h4>
```

```
<button type="submit" class="btn btn-primary btn-</pre>
success">Know More </button> <br> <hr>
                             </div>
                          </div>
                     </div>
      <br>
      <div style="width: 600px;">
                          <!-- Left-aligned -->
                          <div class="media">
                             <div class="media-left">
                                <img src="images/img avatar1.png"</pre>
class="media-object" style="width:60px">
                            </div>
                             <div class="media-body">
                               <h4 class="media-heading">Name :
Manikandan</h4>
          <h5 class="media-heading"> Qualification : B.E
(Computer Science Engineering )</h4>
          <button type="submit" class="btn btn-primary btn-</pre>
success">Know More </button> <br> <hr>
                             </div>
                          </div>
                     </div> <br>
      <div style="width: 600px;">
                          <!-- Left-aligned -->
                          <div class="media">
                            <div class="media-left">
                                <img src="images/img avatar1.png"</pre>
class="media-object" style="width:60px">
                             </div>
```

```
<div class="media-body">
                               <h4 class="media-heading">Name :
Kavi</h4>
          <h5 class="media-heading"> Qualification : B.E
(Computer Science Engineering )</h4>
          <button type="submit" class="btn btn-primary btn-</pre>
success">Know More </button> <br> <hr>
                            </div>
                          </div>
                     </div> <br>
      <div style="width: 600px;">
                          <!-- Left-aligned -->
                          <div class="media">
                            <div class="media-left">
                               <img src="images/img avatar1.png"</pre>
class="media-object" style="width:60px">
                            </div>
                            <div class="media-body">
                               <h4 class="media-heading">Name :
Ram < /h4 >
          <h5 class="media-heading"> Qualification : B.E
(Computer Science Engineering )</h4>
          <button type="submit" class="btn btn-primary btn-</pre>
success">Know More </button> <br> <hr>
                            </div>
                          </div>
                     </div> <br>
    </div>
  </div>
```

```
</div>
<script>
    $(document).ready(function() {
        $("#myInput").on("keyup", function() {
        var value = $(this).val().toLowerCase();
        $("#myDIV *").filter(function() {
            $(this).toggle($(this).text().toLowerCase().indexOf(value))
        } -1)
        });
    });
    </script>
</body>
</html>
```

CHATBOT:

Chatbot has been implemented to provide

assistance.

};

instance.render(); }

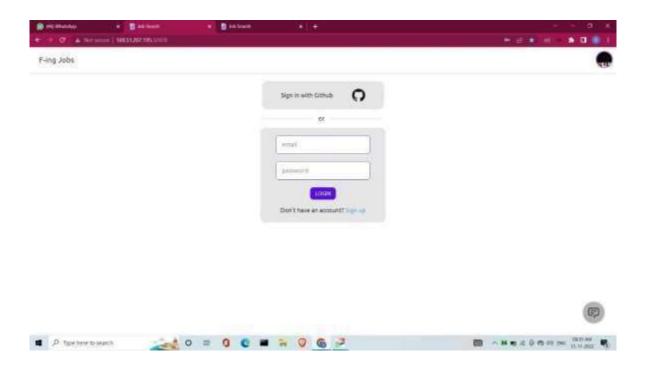
```
setTimeout(function() {
  const
  t=document.createElement('script');
       t.src="https://web-
  chat.global.assistant.watson.appdomain.
  cloud/versions/" +
  (window.watsonAssistantChatOptions.clie
  ntVersion || 'latest') +
  "/WatsonAssistantChatEntry.js";
       document.head.appendChild(t);
  });
```

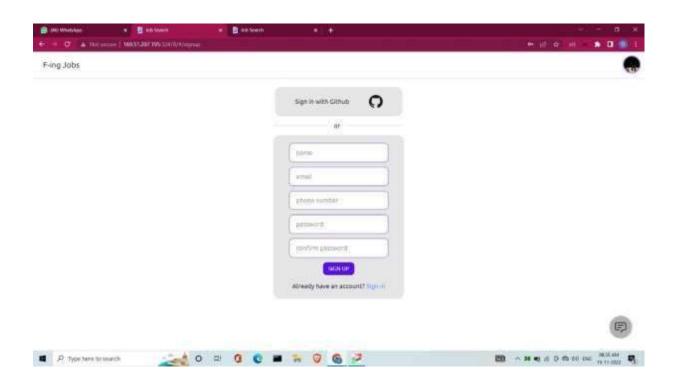
7.3 Database Schema(if Applicable):

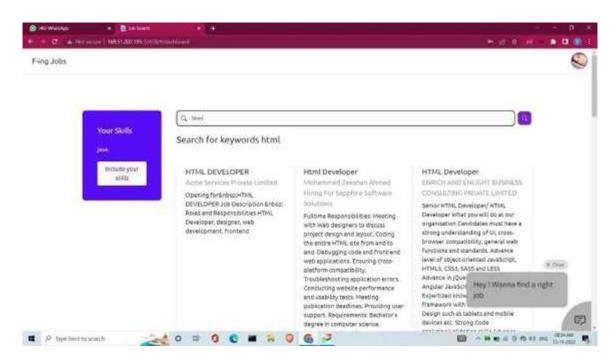
```
import os
from sendgrid import SendGridAPIClient
from sendgrid.helpers.mail import Mail
FROM_EMAIL = 'Your_Name@SendGridTest.com'
def SendEmail(to_email):
    """ Send an email to the provided email addresses
    :param to_email = email to be sent to
    :returns API response code
    :raises Exception e: raises an exception """
    message = Mail(
        from email=FROM EMAIL,
        to_emails=to_email,
        subject='A Test from SendGrid!',
        html_content='<strong>Hello there from SendGrid your URL is: ' +
        '<a href=''https://github.com/cyberjive''>right here!</a></strong>')
    try:
        sg = SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
        response = sg.send(message)
        code, body, headers = response.status_code, response.body, response.headers
        print(f"Response Code: {code} ")
   if _name_ == "_main_":
       SendEmail(to_email=input("Email address to send to? "))
```

8. TESTING

8.1 TEST CASES:







9 RESULTS:

The project has been completed as we expected.

We ensured that Database was designed and well connected to our project.

The Expected results were gotten.

10 ADVANTAGES & DISADVANTAGES:

ADVANTAGES

- Person who looks for a job can easily find a suitable jobbased on their skill set.
- Person can check their eligibility by attending eligibilitytest.
- Most of the Recruiters find the suitable person based on the scores they have gotten in the eligibility.

DISADVANTAGES

- Person Job May get technical difficulty while taking the eligibility.
- ➤ Job seeker may have trouble to contact recruiters directly.

11 CONCLUSION

The application has been developed to make job searcheasier.

The application that we have developed is user friendly.

User can find a job based on their skillset in the short period of time. The jobseeker certainly get benefit by using this application.

In the addition, Chatbot Has been implemented with the helpof IBM what's on. The chatbot helps jobseeker and organization when they experience the difficulties.

12 FUTURE SCOPE

The linked in the well known application to find a job and stay connected with professional and organization.

The job seekers and organization use linked in to find a job.

In the future, There are lots of possibilities to enhance our project similar to linked in.

Future directions of our work will focus on performing a more exhaustive evaluation considering a greater amount of methods and data as well as a comprehensive evaluation of the impact of each professional skill of a job seeker on the received job recommendation. We can use machine learning technicques to recommend data in a efficient way.

13 APPENDIX

SOURCE CODE

Sprint 1:

Index.html

```
<!DOCTYPEhtml>
                 <html lang="en">
                   <head>
                     <meta charset="utf-8">
                      <meta name="viewport"</pre>
                 content="width=device-width, initial-scale=1">
                     <title>Log-in Page </title>
                      <link href="css/bootstrap.min.css"</pre>
                 rel="stylesheet">
                      <script src="chat.js"></script>
                   </head>
                   <style>
                      .pad{
                           padding-top: 40%;
                      .bold{
                            font-weight: bolder;
                      .backgroundcolour{
                           background-color: beige;
                      .font{
                            font-weight: bolder;
                           color:whitesmoke;
                   </style>
                      <body>
                            <div class="container">
                                 <div class="row">
                                      <div class="col-sm-6">
                                      </div>
                                      <div class="col-sm-6">
```

```
<center><img
src="images/logo.png" class="img-responsive"
width="20%" height="20%"> </center> <HR>
                                     <form>
                                           <div
class="input-group">
                                             <span
class="input-group-addon"><i class="glyphicon"</pre>
glyphicon-user"></i></span>
id="email" type="text" class="form-control"
name="email" placeholder="Enter Your Registered
Email ID" required>
                                           </div>
                                           <br>
                                           <div
class="input-group">
                                             <span
class="input-group-addon"><i class="glyphicon"</pre>
glyphicon-lock"></i></span>
                                             <input
id="password" type="password" class="form-
control" name="password" placeholder="Enter Your
Password" required>
                     </div>
                 <hr>
<div class="row">
<div class="col-sm-6">
<button type="submit" id="" class="btn btn-</pre>
success btn-block"> <span class="font">LOG IN
</span></button>
     </div>
     <div class="col-sm-6">
      <button id="" class="btn btn-danger btn-</pre>
block"><a href="forget password.html"><span</pre>
class="font">FORGET PASSWORD
```

<div class="pad ">

<!DOCTYPEhtml>

```
</span></a></button>
                       </div>
                                                              </div>
                 \langle br \rangle
                                                        </form>
                 href="signup.html"> <button type="submit" id=""</pre>
                 class="btn btn-primary btn-block"><span</pre>
                 class="font">CREATE AN ACCOUNT </span> </button>
                 </a>
                                             </div>
                                        </div>
                                  </div>
                             </div>
                             <script
                 src="js/jquery.min.js"></script>
                             <script
                 src="js/bootstrap.min.js"></script>
                             <script src="chat.js"></script>
                       </body>
                 </html>
FORGET-PASSWORD.html
                 <html lang="en">
                    <head>
                      <meta charset="utf-8">
                       <meta name="viewport"</pre>
                 content="width=device-width, initial-scale=1">
                      <title>Responsive Sample</title>
                       <link href="css/bootstrap.min.css"</pre>
                 rel="stylesheet">
                    </head>
                    <style>
                       .pad{
                            padding-top: 20%;
                            padding-left: 20%;
```

```
padding-right: 20%;
     }
     .bold{
           font-weight: bolder;
  </style>
     <body>
           <div class="container">
                <div class="pad">
                 <form>
                     <center> <H3</pre>
class="bold">FORGET PASSWORD</H3></center> <hr>
                     <div class="form-group">
                        <label for="email">Email
address:</label>
                       <input type="email"</pre>
class="form-control" id="email"
placeholder="Enter Your Registered Email
Addtress">
                     </div>
                     <div class="form-group">
                        <label
for="pwd">OTP</label>
                       <input type="password"</pre>
class="form-control" id="pwd" placeholder="Enter
your OTP ">
                     </div>
                     <button type="submit"</pre>
class="btn btn-default">Recover
Password</button>
                  </form>
                </div>
           </div>
           <script
src="js/jquery.min.js"></script>
           <script
src="js/bootstrap.min.js"></script>
     </body>
</html>
```

SIGN UP.html <!DOCTYPE html> <html lang="en"> <head> <meta charset="utf-8"> <meta name="viewport"</pre> content="width=device-width, initial-scale=1"> <title>Creating New Account </title> ink href="css/bootstrap.min.css" rel="stylesheet"> </head> <style> .pad{ padding-top: 10%; padding-bottom: 10%; } .bold{ font-weight: bolder; </style> <body> <div class="container"> <div class="pad"> <h3 class="bold">CREATE AN ACCOUNT</h3> <HR> <form> <div class="form-group"> <label for="name">First Name</label> <input type="name"</pre> class="form-control" id="name"

placeholder="Enter Your First

Name">

```
</div>
                              <div
class="form-group">
     <label for="name">Last
Name</label>
     <input type="name"</pre>
class="form-control" id="name"
placeholder="Enter Your Last Name">
     </div>
     <div class="form-group">
     <label for="email">Email
address:</label>
     <input type="email"</pre>
class="form-control" id="email"
placeholder="Enter Your Email ID">
     </div>
     <div class="form-group">
     <label
for="pwd">Password:</label>
     <input type="password"</pre>
class="form-control" id="pwd"
placeholder="Enter Your Password">
     </div>
                              <div
class="form-group">
     <label for="repwd">Reenter
Password:</label>
```

Again">

</div>

<hr>>

</div>

</form>

</div>

</div>

BACK END:

```
import os
import ibm db
import bcrypt
#import send from directory
app = Flask(__name__) #initialising flask
app.secret key = ''
PEOPLE FOLDER = os.path.join('static', 'people photo')
import ibm db
conn = ibm db.connect("DATABASE=bludb; HOSTNAME=54a2f15b-5c0f-
46df-8954-
7e38e612c2bd.clogj3sd0tgtu0lgde00.databases.appdomain.cloud;P
ORT=32733; SECURITY=SSL; SSLServerCertificate=DigiCertGlobalRoo
tCA.crt; PROTOCOL=TCPIP; UID=phb43134; PWD=mTTnIE45Raj9A0rr", '',
@app.route("/") #defining the routes for the home() funtion
(Multiple routes can be used as seen here)
@app.route("/home")
def home():
    return render template ("home.html") #rendering our
home.html contained within /templates
@app.route("/login")
def login():
    if request.method == 'POST':
        email = request.form['email']
        password = request.form['password']
        if not email or not password:
            return render template('login.html',error='Please
fill all fields')
        query = "SELECT * FROM USER WHERE email=?"
        stmt = ibm db.prepare(conn, query)
        ibm db.bind param(stmt,1,email)
        ibm db.execute(stmt)
        isUser = ibm db.fetch assoc(stmt)
        print(isUser, password)
        if not isUser:
            return
render template('login.html',error='Invalid Credentials')
```

```
isPasswordMatch =
bcrypt.checkpw(password.encode('utf-
8'), isUser['PASSWORD'].encode('utf-8'))
        if not isPasswordMatch:
            return
render template('login.html',error='Invalid Credentials')
        session['email'] = isUser['EMAIL']
        return redirect(url for('user dashboard'))
    return render template('login.html',name='Home')
app.config["UPLOAD DIR"] = "uploads"
@app.route("/register", methods=['GET', 'POST'])
def register():
  if request.method == 'POST':
    email = request.form['email']
    password = request.form['password']
    firstname=request.form['firstname']
    middlename=request.form['middlename']
    lastname=request.form['lastname']
    dob=request.form['dob']
    age=request.form['age']
    drno=request.form['drno']
    landmark1=request.form['lnmk1']
    landmark2=request.form['lnmk2']
    village =request.form['village']
    district=request.form['district']
    pincode=request.form['pincode']
    country=request.form['country']
    country code=request.form['countryCode']
    phone=request.form['phone']
    schlname10=request.form['schlname10']
    maxmark10=request.form['maxmark10']
    actmark10=request.form['actmark10']
    schlname212=request.form['schlname212']
    maxmark212=request.form['maxmark212']
    actmark212=request.form['actmark212']
    clgname=request.form['clgname']
    clgmaxmark=request.form['clgmaxmark']
    clgactmark=request.form['clgactmark']
    stream=request.form['stream']
    graduation=request.form['graduation']
    grayear=request.form['grayear']
    branch=request.form['branch']
    skills=request.form['form[]']
    q1=request.form['Q1']
    q2=request.form['Q2']
```

```
q3=request.form['Q3']
    q4=request.form['Q4']
    q5=request.form['Q5']
   position=request.form['position']
    experience=request.form['expyears']
    designation=request.form['designation']
    tum = request.files['resume']
tum.save(os.path.join(app.config['UPLOAD DIR'],tum.filename))
    hash=bcrypt.hashpw(password.encode('utf-
8'),bcrypt.gensalt())
    query = "SELECT EMAIL FROM JOBSEEKER WHERE EMAIL=?"
    stmt = ibm db.prepare(conn, query)
    ibm db.bind param(stmt,1,email)
    ibm db.execute(stmt)
   isUser = ibm db.fetch assoc(stmt)
    if not is User:
      insert sql = "INSERT INTO JOBSEEKER (EMAIL, PASSWORD,
FIRSTNAME, MIDDLENAME, LASTNAME, DOB, AGE, DOOR NO,
LANDMARK1, LANDMARK2, VILLAGE, DISTRICT, PINCODE, COUNTRY,
COUNTRY CODE, PHONE, SCHOOL NAME, SC MAX MARK,
SC ACT MARK, HSC SCHOOL NAME, HSC MAX MARK,
HSC ACT MARK, COLLEGE NAME, COLLEGE MAX, COLLEGE ACT, STREAM,
GRADUATION, GRADUATION YEAR, BRANCH, SKILLS, PRESENTATION,
HACKATHON, CODING, WON, PRIZE WON, POSITION,
EXPYEARS, DESIGNATION, RESUME) VALUES
?,?,?,?,?,?,?,?,?)"
     prep stmt = ibm db.prepare(conn, insert sql)
      ibm db.bind param(prep stmt, 1, email)
      ibm db.bind param(prep stmt, 2, password)
      ibm db.bind param(prep stmt, 3, firstname)
      ibm_db.bind_param(prep_stmt, 4, middlename)
      ibm db.bind param(prep stmt, 5, lastname)
      ibm_db.bind_param(prep_stmt, 6, dob)
      ibm db.bind param(prep stmt, 7, age)
      ibm db.bind param(prep stmt, 8, drno)
      ibm db.bind param(prep stmt, 9, landmark1)
      ibm db.bind param(prep stmt, 10, landmark2)
      ibm db.bind param(prep stmt, 11, village)
      ibm_db.bind_param(prep stmt, 12, district)
      ibm db.bind param(prep stmt, 13, pincode)
      ibm db.bind param(prep stmt, 14, country)
```

```
ibm db.bind param(prep stmt, 15, country code)
      ibm db.bind param(prep stmt, 16, phone)
      ibm db.bind param(prep stmt, 17, schlname10)
      ibm db.bind param(prep stmt, 18, maxmark10)
      ibm_db.bind_param(prep_stmt, 19, actmark10)
      ibm db.bind param(prep stmt, 20, schlname212)
      ibm_db.bind_param(prep_stmt, 21, maxmark212)
      ibm db.bind param(prep stmt, 22, actmark212)
      ibm db.bind param(prep stmt, 23, clgname)
      ibm db.bind param(prep stmt, 24, clgmaxmark)
      ibm db.bind param(prep stmt, 25, clgactmark)
      ibm db.bind param(prep stmt, 26, stream)
      ibm db.bind param(prep stmt, 27, graduation)
      ibm db.bind param(prep stmt, 28, grayear)
      ibm_db.bind_param(prep_stmt, 29, branch)
      ibm db.bind param(prep stmt, 30, skills)
      ibm db.bind param(prep stmt, 31, q1)
      ibm db.bind param(prep stmt, 32, q2)
      ibm_db.bind_param(prep stmt, 33, q3)
      ibm db.bind param(prep stmt, 34, q4)
      ibm db.bind param(prep stmt, 35, q5)
      ibm db.bind param(prep stmt, 36, position)
      ibm db.bind param(prep stmt, 37, experience)
      ibm db.bind param(prep stmt, 38, designation)
      ibm db.bind param(prep stmt, 39, tum)
      ibm db.execute(prep stmt)
      return render template('register.html')
    else:
      return render template ('register.html', error='Invalid
Credentials')
  return render template('register.html', name='Home')
@app.route("/orgregister")
def orgregister():
    return render template ("orgregister.html") #rendering our
register.html contained within /templates
@app.route("/user dashboard")
def user dashboard():
    return render template("user dashboard.html")
@app.route('/logout')
def logout():
    session.pop('email', None)
    return redirect(url for('login'))
if name__== "__main__": #checking if___name 's value is
'__main__'.___name___is an python environment variable who's
value will always be '__main__' till this is the first
```

```
instatnce of app.py running
    app.run(debug=True,port=8080) #running flask (Initalised
on line 4)
```

SPRINT 2

Index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
     <meta name="viewport" content="width=device-width, initial-</pre>
scale=1">
    <title>Log-in Page </title>
     <link href="css/bootstrap.min.css" rel="stylesheet">
     <script src="chat.js"></script>
  </head>
  <style>
     .pad{
         padding-top: 40%;
     }
     .bold{
          font-weight: bolder;
```

```
}
   .backgroundcolour{
        background-color: beige;
   }
   .font{
        font-weight: bolder;
        color:whitesmoke;
   }
</style>
   <body>
        <br>
        <div class="container">
             <div class="row">
                  <div class="col-sm-6">
                        <div class="pad ">
```

```
<center><img</pre>
src="images/ORGANIZATION LOGO.png" class="img-responsive"
width="20%" height="20%"> </center> <BR>
                                <form>
                                     <div class="input-group">
                                        <span class="input-group-</pre>
addon"><i class="glyphicon glyphicon-user"></i></span>
                                        <input id="email"</pre>
type="text" class="form-control" name="email" placeholder="Enter
Your Organization Registered Email ID" >
                                      </div>
                                      <br>
                                     <div class="input-group">
                                        <span class="input-group-</pre>
addon"><i class="glyphicon glyphicon-lock"></i></span>
                                        <input id="password"</pre>
type="password" class="form-control" name="password"
placeholder="Enter Your Password">
                                     </div>
                                     <hr>
                                     <div class="row">
                                     <div class="col-sm-6">
     <button type="submit" id="" class="btn btn-success btn-</pre>
block"> <span class="font">LOG IN </span></button>
     </div>
```

```
<div class="col-sm-6">
      <button id="" class="btn btn-danger btn-block">
<a href=""><span class="font">FORGET PASSWORD
</span></a></button>
     </div>
                                    </div> <br>
                               </form>
<ahref="Organization/Create_Account/org_create_account.html">
<button type="submit" id="" class="btn btn-primary btn-</pre>
block"><span class="font">CREATE AN ACCOUNT </span> </button>
</a>
                    </div>
                    </div>
                    <div class="col-sm-6">
                         <div class="pad ">
```

```
<center><img</pre>
src="images/logo.png" class="img-responsive" width="20%"
height="20%"> </center> <br>
                                      <form>
                                           <div class="input-
group">
                                             <span class="input-</pre>
group-addon"><i class="glyphicon glyphicon-user"></i></span>
                                             <input id="email"</pre>
type="text" class="form-control" name="email" placeholder="Enter
Your Registered Email ID" required>
                                           </div>
                                           <br>
                                           <div class="input-
group">
                                             <span class="input-</pre>
group-addon"><i class="glyphicon glyphicon-lock"></i></span>
                                             <input id="password"</pre>
type="password" class="form-control" name="password"
placeholder="Enter Your Password" required>
                                           </div>
                                           <hr>
                                           <div class="row">
                                                <div class="col-sm-
6">
```

```
<button
type="submit" id="" class="btn btn-success btn-block"> <span</pre>
class="font">LOG IN </span></button>
                                              </div>
                                              <div class="col-sm-
6">
           <button id="" class="btn btn-danger btn-block">
<a href="forget password.html">
<span class="font">FORGET PASSWORD </span></a></button>
                                              </div>
                                         </div> <br>
                                    </form>
                                    <a href="signup.html">
<button type="submit" id="" class="btn btn-primary btn-block">
<span class="font">CREATE AN ACCOUNT </span> </button>
</a></div>
</div>
</div>
</div>
          <script src="js/jquery.min.js"></script>
          <script src="js/bootstrap.min.js"></script>
          <script src="chat.js"></script>
     </body>
</html>
```

FORGET-PASSWORD.html

```
<!DOCTYPEhtml>
                  <html lang="en">
                  <head>
                      <meta charset="utf-8">
                       <meta name="viewport"</pre>
                  content="width=device-width, initial-scale=1">
                      <title>Responsive Sample</title>
                       <link href="css/bootstrap.min.css"</pre>
                  rel="stylesheet">
                    </head>
                    <style>
                       .pad{
                            padding-top: 20%;
                            padding-left: 20%;
                            padding-right: 20%;
                       .bold{
                            font-weight: bolder;
                    </style>
                       <body>
                             <div class="container">
                                  <div class="pad">
                                   <form>
                                        <center> <H3</pre>
                  class="bold">FORGET PASSWORD</H3></center> <hr>
                                       <div class="form-group">
                                          <label for="email">Email
                  address:</label>
                                          <input type="email"</pre>
                  class="form-control" id="email"
                  placeholder="Enter Your Registered Email
                  Addtress">
                                       </div>
                                       <div class="form-group">
                                          <label
                  for="pwd">OTP</label>
                                          <input type="password"</pre>
                  class="form-control" id="pwd" placeholder="Enter
```

your OTP ">

SIGNUP.html

```
</div>
                     <button type="submit"</pre>
class="btn btn-default">Recover
Password</button>
                  </form>
                </div>
           </div>
           <script
src="js/jquery.min.js"></script>
          <script
src="js/bootstrap.min.js"></script>
     </body>
</html>
 <!DOCTYPE
 html>
             <html lang="en">
               <head>
                 <meta charset="utf-8">
                  <meta name="viewport"</pre>
             content="width=device-width,
             initial-scale=1">
                 <title>Creating New Account
             </title>
                  link
             href="css/bootstrap.min.css"
             rel="stylesheet">
               </head>
               <style>
                  .pad{
                       padding-top: 10%;
```

```
padding-bottom: 10%;
     }
     .bold{
          font-weight: bolder;
     }
  </style>
     <body>
          <div class="container">
                          <div
class="pad">
                                <h3
class="bold">CREATE AN ACCOUNT</h3>
                                <HR>
     <form>
                             <div
class="form-group">
     <label for="name">First
Name</label>
     <input type="name"</pre>
class="form-control" id="name"
placeholder="Enter Your First
Name">
     </div>
                             <div
class="form-group">
```

```
<label for="name">Last
Name</label>
     <input type="name"</pre>
class="form-control" id="name"
placeholder="Enter Your Last Name">
     </div>
     <div class="form-group">
     <label for="email">Email
address:</label>
     <input type="email"</pre>
class="form-control" id="email"
placeholder="Enter Your Email ID">
     </div>
     <div class="form-group">
     <label
for="pwd">Password:</label>
     <input type="password"</pre>
class="form-control" id="pwd"
placeholder="Enter Your Password">
     </div>
                              <div
class="form-group">
     <label for="repwd">Reenter
```

Password:</label>

</div>

<hr>>

</div>

</form>

</div>

</div>

HOME PAGE:

```
Forgot password.html
```

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
              <meta name="viewport" content="width=device-width,</pre>
initial-scale=1">
    <title>Responsive Sample</title>
              <link href="css/bootstrap.min.css"</pre>
rel="stylesheet">
  </head>
  <style>
              .pad{
                padding-top: 20%;
                padding-left: 20%;
               padding-right: 20%;
              }
              .bold{
                font-weight: bolder;
              }
  </style>
              <body>
                <div class="container">
                     <div class="pad">
```

```
<form>
                          <center> <H3 class="bold">FORGET
PASSWORD</H3></center> <hr>
                          <div class="form-group">
                            <label for="email">Email
address:</label>
                            <input type="email" class="form-</pre>
control" id="email" placeholder="Enter Your Registered Email
Addtress">
                          </div>
                          <div class="form-group">
                            <label for="pwd">OTP</label>
                            <input type="password" class="form-</pre>
control" id="pwd" placeholder="Enter your OTP ">
                          </div>
                          <button type="submit" class="btn btn-</pre>
default">Recover Password</button>
                       </form>
                     </div>
                </div>
               <script src="js/jquery.min.js"></script>
               <script src="js/bootstrap.min.js"></script>
              </body>
</html>
```

Signup.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
              <meta name="viewport" content="width=device-width,</pre>
initial-scale=1">
    <title>Creating New Account </title>
              <link href="css/bootstrap.min.css"</pre>
rel="stylesheet">
  </head>
  <style>
              .pad{
                padding-top: 10%;
        padding-bottom: 10%;
              .bold{
                font-weight: bolder;
              }
  </style>
              <body>
                <div class="container">
```

```
<div class="pad">
                                     <h3 class="bold">CREATE AN
ACCOUNT</h3>
                                     <HR>
                                     <form>
                             <div class="form-group">
                                               <label
for="name">First Name</label>
                                               <input type="name"</pre>
class="form-control" id="name" placeholder="Enter Your First
Name">
                                          </div>
                             <div class="form-group">
                                               <label
for="name">Last Name</label>
                                               <input type="name"</pre>
class="form-control" id="name" placeholder="Enter Your Last
Name">
                                          </div>
                                          <div class="form-group">
```

```
<label
for="email">Email address:</label>
                                               <input type="email"</pre>
class="form-control" id="email" placeholder="Enter Your Email
ID">
                                         </div>
                                         <div class="form-group">
                                               <label
for="pwd">Password:</label>
                                               <input
type="password" class="form-control" id="pwd" placeholder="Enter
Your Password">
                                          </div>
                             <div class="form-group">
                                               <label
for="repwd">Reenter Password:</label>
                                               <input
type="password" class="form-control" id="repwd"
placeholder="Enter Your Password Again">
                                         </div>
                                               <button
type="button" id="" class="btn btn-primary btn-block btn-
danger">CREATE AN ACCOUNT</button>
                                               <hr>>
```

<button

type="submit" id="login_already" class="btn btn-primary btnblock btn-success">Do you have an Account Already ?</button>

</div>

</form>

</div>

</div>

<script src="js/jquery.min.js"></script>

<script src="js/bootstrap.min.js"></script>

<script src="chat.js"></script>

</body>

</html>

def home():

home.html contained within /templates

BACK ENDAPP.PY from flask import *#importing flask (Install it using python -m pip install flask) import os import ibm db import bcrypt #import send from directory app = Flask(__name__) #initialising flask app.secret key = '' PEOPLE FOLDER = os.path.join('static', 'people photo') import ibm dbconn = ibm db.connect("DATABASE=bludb; HOSTNAME=54a2f15b-5c0f-46df-8954-7e38e612c2bd.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT =32733; SECURITY=SSL; SSLServerCertificate=DigiCertGlobalRootCA.cr t; PROTOCOL=TCPIP; UID=phb43134; PWD=mTTnIE45Raj9A0rr", '', '') @app.route("/") #defining the routes for the home() funtion (Multiple routes can be used as seen here) @app.route("/home")

return render template("index/INDEX.html") #rendering our

```
@app.route("/login")
def login():
    if request.method == 'POST':
        email = request.form['email']
        password = request.form['password']
        if not email or not password:
            return render template('login.html',error='Please
fill all fields')
        query = "SELECT * FROM USER WHERE email=?"
        stmt = ibm db.prepare(conn, query)
        ibm db.bind param(stmt,1,email)
        ibm db.execute(stmt)
        isUser = ibm db.fetch assoc(stmt)
        print(isUser,password)
        if not isUser:
            return render template('login.html',error='Invalid
Credentials')
        isPasswordMatch = bcrypt.checkpw(password.encode('utf-
8'),isUser['PASSWORD'].encode('utf-8'))
        if not isPasswordMatch:
            return render template('login.html',error='Invalid
Credentials')
```

```
session['email'] = isUser['EMAIL']
        return redirect(url for('user dashboard'))
    return render template('login.html',name='Home')
app.config["UPLOAD DIR"] = "uploads"
@app.route("/register", methods=['GET', 'POST'])
def register():
  if request.method == 'POST':
    email = request.form['email']
    password = request.form['password']
    firstname=request.form['firstname']
    middlename=request.form['middlename']
    lastname=request.form['lastname']
    dob=request.form['dob']
    age=request.form['age']
    drno=request.form['drno']
    landmark1=request.form['lnmk1']
    landmark2=request.form['lnmk2']
    village =request.form['village']
    district=request.form['district']
    pincode=request.form['pincode']
```

```
country=request.form['country']
country code=request.form['countryCode']
phone=request.form['phone']
schlname10=request.form['schlname10']
maxmark10=request.form['maxmark10']
actmark10=request.form['actmark10']
schlname212=request.form['schlname212']
maxmark212=request.form['maxmark212']
actmark212=request.form['actmark212']
clgname=request.form['clgname']
clgmaxmark=request.form['clgmaxmark']
clgactmark=request.form['clgactmark']
stream=request.form['stream']
graduation=request.form['graduation']
grayear=request.form['grayear']
branch=request.form['branch']
skills=request.form['form[]']
q1=request.form['Q1']
q2=request.form['Q2']
q3=request.form['Q3']
q4=request.form['Q4']
q5=request.form['Q5']
position=request.form['position']
experience=request.form['expyears']
designation=request.form['designation']
```

```
tum = request.files['resume']
tum.save(os.path.join(app.config['UPLOAD DIR'],tum.filename))
    hash=bcrypt.hashpw(password.encode('utf-
8'),bcrypt.gensalt())
    query = "SELECT EMAIL FROM ORGANIZATION WHERE EMAIL=?"
    stmt = ibm db.prepare(conn, query)
    ibm db.bind param(stmt,1,email)
    ibm db.execute(stmt)
    isUser = ibm db.fetch assoc(stmt)
    if not isUser:
      insert sql = "INSERT INTO ORGANIZATION (ORGANIZATION NAME,
ORGANIZATION ID, ORGANIZATION ADDRESS, SET PASSWORD,
REENTERPASSWORD) VALUES (?,?,?,?,?)"
      prep stmt = ibm db.prepare(conn, insert sql)
      ibm db.bind param(prep stmt, 1, ORGANIZATION NAME)
      ibm db.bind param(prep stmt, 2, ORGANIZATION ID)
      ibm db.bind param(prep stmt, 3, ORGANIZATION ADDRESS)
      ibm db.bind param(prep stmt, 4, SET PASSWORD)
      ibm db.bind param(prep stmt, 5, REENTERPASSWORD)
      ibm db.execute(prep stmt)
```

```
return
render template('Organization\Create Account\org create account.
html')
    else:
      return
render template('Organization\Create Account\org create account.
html',error='Invalid Credentials')
  return render template('create account.html',name='Home')
@app.route("/orgregister")
def orgregister():
    return render template("org create account.html") #rendering
our register.html contained within /templates
@app.route("/user dashboard")
def user dashboard():
    return render template("user dashboard.html")
@app.route('/logout')
def logout():
    session.pop('email', None)
    return redirect(url for('login'))
```

```
if __name __ == " main __ ": #checking if __name 's value is
'__main__'.___name__is an python environment variable who's
value will always be '__main__' till this is the first instatnce
of app.py running
    app.run(debug=True,port=8080) #running flask (Initalised on
line 4)
    hash=bcrypt.hashpw(password.encode('utf-
8'),bcrypt.gensalt())
    query = "SELECT EMAIL FROM JOBSEEKER WHERE EMAIL=?"
    stmt = ibm db.prepare(conn, query)
    ibm db.bind param(stmt,1,email)
    ibm db.execute(stmt)
    isUser = ibm db.fetch assoc(stmt)
    if not isUser:
      insert sql = "INSERT INTO JOBSEEKER (FIRSTNAME,
LASTNAME, EMAIL ADDRESSS, PWD, REPWD=?"
      prep stmt = ibm db.prepare(conn, insert sql)
      ibm db.bind param(prep stmt, 1, firstname)
      ibm db.bind param(prep stmt, 2, lastname)
      ibm db.bind param(prep stmt, 3, email address)
      ibm db.bind param(prep stmt, 4, pwd)
      ibm db.bind param(prep stmt, 5, repwd)
```

```
ibm db.execute(prep stmt)
           return render template('Job Seeker\signup.html')
         else:
           return render template('Job
    Seeker\signup.html',error='Invalid Credentials')
       return render template('signup.html',name='Home')
JAVASCRIPT:
    window.watsonAssistantCh
    atOptions= {
                                    integrationID: "d73273d3-3f44-
                                4304-84ee-8fd243016d1d", // The ID of
                                this integration.
                                    region: "jp-tok", // The region
                                your integration is hosted in.
                                    serviceInstanceID: "81229104-ee6b-
                                46da-ac1c-67ede110663a", // The ID of
                                your service instance.
                                    onLoad: function(instance) {
                                instance.render(); }
                                  };
                                  setTimeout(function(){
                                    const
                                t=document.createElement('script');
                                    t.src="https://web-
                                chat.global.assistant.watson.appdomain
                                .cloud/versions/" +
                                (window.watsonAssistantChatOptions.cli
                                entVersion || 'latest') +
                                "/WatsonAssistantChatEntry.js";
```

});

document.head.appendChild(t);

Verify.py

```
from flask import request
from flask_restful import Resource
from utils.tokener import confirm_token
from utils.dbQuery import insertQuery
class Verify(Resource):
data=request.json
token=data["token"]
email=confirm_token(token)
if(not email):
return {"status":"Couldn't verify"},400
res=insertQuery("UPDATE user set verified=True where
email=?",(email,))
if(not res):
return {"status":"Couldn't Update"},400
return {"status":"verified successfully"},200
```

SPRINT:3

FRONT END

DASHBROAD.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-</pre>
scale=1">
  <link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootst
rap.min.css">
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.m
in.js"></script>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstra
p.min.js"></script>
  <style>
    .rus{
        border-radius: 0%
    };
    .black{
```

```
color:black;
  }
</style>
</head>
<body>
 <nav class="navbar navbar-inverse rus">
  <div class="container-fluid">
    <div class="navbar-header">
     <a class="navbar-brand" href="#">Skill and Job
Recommender</a>
    </div>
    <a href="#"><span class="glyphicon glyphicon-log-</pre>
in"></span> Log out</a>
    </div>
 </nav>
<div class="container">
 <a data-toggle="tab"</pre>
href="#home">Profile</a>
```

```
<a data-toggle="tab" href="#menu1">Eligibility
Test</a>
    <a data-toggle="tab" href="#menu2">Find Job</a>
  <div class="tab-content">
    <div id="home" class="tab-pane fade in active">
      <h3>PROFILE</h3>
      <hr>
      <form>
        <div class="alert alert-danger">
        <div class="form-group">
            <label for="name"><span clss="black">Name:
</span></label>
            <input type="text" class="form-control" id="name"</pre>
value="Mahadevan">
          </div>
          <div class="form-group">
            <label for="email"><span class="black">Email Address
</span></label>
            <input type="text" class="form-control" id="email"</pre>
value="Mahadevan@gmaiil.com">
          </div>
          <div class="form-group">
```

```
<label for="email"><span class="black">Mobile No
</span></label>
            <input type="text" class="form-control" id="email"</pre>
value="9003824096">
          </div>
          <div class="form-group">
            <label for="quali"><span class="black">What is your
Nationality </span></label>
             <input type="text" class="form-control" id="quali"</pre>
value="India">
          </div>
 <div class="form-group">
             <label for="quali">What is your
Qualification</label>
            <input type="text" class="form-control" id="quali"</pre>
value="BE">
          </div>
          <div class="form-group">
            <label for="quali">What year did you complete your
bachelor Degree?</label>
            <input type="text" class="form-control" id="quali"</pre>
value="2023">
           </div>
```

```
<div class="form-group">
            <label for="experience">How many years of work
experience do you have ?</label>
            <input type="text" class="form-control"</pre>
id="experience" value="0">
          </div>
          <div class="form-group">
            <label for="place">Where have you graduated high
school degree ?</label>
            <input type="text" class="form-control" id="place"</pre>
value="Government high school Ariyalur">
          </div>
          <div class="form-group">
            <label for="SSLC">What is your SSLC Percentage
:</label>
            <input type="text" class="form-control" id="SSLC"</pre>
value="90">
          </div>
          <div class="form-group">
            <label for="HSC">What is your HSC Percentage
:</label>
            <input type="text" class="form-control" id="HSC"</pre>
value="90">
          </div>
```

```
<div class="form-group">
            <label for="degree">What is your Percentage in
bachelor Degree:</label>
            <input type="text" class="form-control" id="degree"</pre>
value="90.5">
          </div>
          <textarea class="form-control" id="aboutyou" rows="3"</pre>
placeholder="Write few words about yourself"></textarea> <br>
<br>
          <button type="submit" class="btn btn-primary btn-</pre>
success">Save changes</putton> <br> <br>
          </div>
        </form>
    </div>
    <div id="menu1" class="tab-pane fade">
      <h3>Eligibility Test </h3> <hr>
      <div class="alert alert-info">
        <label>What function is used to display output on the
screen?</label>
              <div class="radio">
                       <label><input type="radio"</pre>
name="print">printf()</label>
                       </div>
                       <div class="radio">
```

```
<label><input type="radio"</pre>
name="scanf">scanf()</label>
                        </div>
                        <div class="radio">
                        <label><input type="radio"</pre>
name="switch">switch</label>
                        </div>
      </div> <hr>
      <div class="alert alert-info">
        <label>What function is used to display output on the
screen?</label>
              <div class="radio">
                        <label><input type="radio"</pre>
name="print">printf()</label>
                        </div>
                        <div class="radio">
                        <label><input type="radio"</pre>
name="scanf">scanf()</label>
                        </div>
                        <div class="radio">
                        <label><input type="radio"</pre>
name="switch">switch</label>
                        </div>
      </div> <hr>
      <div class="alert alert-info">
```

```
<label>What function is used to display output on the
screen?</label>
              <div class="radio">
                       <label><input type="radio"</pre>
name="print">printf()</label>
                       <div class="radio">
                       <label><input type="radio"</pre>
name="scanf">scanf()</label>
                        </div>
                       <div class="radio">
                       <label><input type="radio"</pre>
name="switch">switch</label>
                       </div>
      </div> <hr>
      <div class="alert alert-info">
        <label>What function is used to display output on the
screen?</label>
              <div class="radio">
                       <label><input type="radio"</pre>
name="print">printf()</label>
                       </div>
                       <div class="radio">
                       <label><input type="radio"</pre>
name="scanf">scanf()</label>
                       </div>
                       <div class="radio">
```

```
<label><input type="radio"</pre>
name="switch">switch</label>
                        </div>
      </div> <hr>
      <div class="alert alert-info">
        <label>What function is used to display output on the
screen?</label>
              <div class="radio">
                       <label><input type="radio"</pre>
name="print">printf()</label>
                       </div>
                       <div class="radio">
                       <label><input type="radio"</pre>
name="scanf">scanf()</label>
                       </div>
                       <div class="radio">
                       <label><input type="radio"</pre>
name="switch">switch</label>
                       </div>
      </div><hr>
      <div class="alert alert-info">
        <label>What function is used to display output on the
screen?</label>
              <div class="radio">
                       <label><input type="radio"</pre>
name="print">printf()</label>
```

```
</div>
                       <div class="radio">
                       <label><input type="radio"</pre>
name="scanf">scanf()</label>
                       </div>
                       <div class="radio">
                       <label><input type="radio"</pre>
name="switch">switch</label>
                       </div>
      </div>
                 <button type="submit" class="btn btn-primary</pre>
btn-success">Submit the test</button> <br> <br>
  </div>
    <div id="menu2" class="tab-pane fade">
      <h3>Find the job</h3> <hr>
      <br>
      <div class="container">
      <form>
                       <div class="input-group">
                           <input type="text" class="form-control"</pre>
id="myInput" placeholder="Look for a job">
                          <div class="input-group-btn">
```

```
<button class="btn btn-default"</pre>
type="submit">
                               <i class="glyphicon glyphicon-</pre>
search"></i>
                            </button>
                          </div>
                       </div>
                     </form> <br> <br>>
      <div style="width: 600px;">
                          <!-- Left-aligned -->
                          <div class="media">
                            <div class="media-left">
                               <img src="images/img avatar1.png"</pre>
class="media-object" style="width:60px">
                            </div>
                            <div class="media-body">
                               <h4 class="media-heading">Java
Developer</h4>
          <h5 class="media-heading"> Company Name : JK Software
Solution</h4>
                               Job Location : Chennai
           Salary : 45000
          <button type="submit" class="btn btn-primary btn-</pre>
success">Apply </putton> <br> <hr>
                            </div>
```

```
PNT2022TMID12203
</div>
                         </div>
          <br>
          <div style="width: 600px;">
                              <!-- Left-aligned -->
                              <div class="media">
                                <div class="media-left">
                                   <img src="images/img avatar1.png"</pre>
    class="media-object" style="width:60px">
                                </div>
                                <div class="media-body">
                                   <h4 class="media-heading">.NET
    Developer</h4>
               <h5 class="media-heading"> Company Name : JK Software
    Solution</h4>
                                   Job Location : Chennai
                Salary : 45000 
               <button type="submit" class="btn btn-primary btn-</pre>
    success">Apply </button> <br> <hr>
                                </div>
                              </div>
                         </div>
           <div style="width: 600px;">
                              <!-- Left-aligned -->
```

<div class="media">

```
<div class="media-left">
                               <img src="images/img avatar1.png"</pre>
class="media-object" style="width:60px">
                            </div>
                            <div class="media-body">
                               <h4 class="media-heading">PHP
Developer</h4>
          <h5 class="media-heading"> Company Name : JK Software
Solution</h4>
                               Job Location : Chennai
           Salary : 45000
          <button type="submit" class="btn btn-primary btn-</pre>
success">Apply </button> <br> <hr>
                            </div>
                          </div>
                    </div>
<div style="width: 600px;">
                          <!-- Left-aligned -->
                          <div class="media">
                            <div class="media-left">
                               <img src="images/img avatar1.png"</pre>
class="media-object" style="width:60px">
                            </div>
                            <div class="media-body">
                               <h4 class="media-heading">UX /UI
Designer</h4>
          <h5 class="media-heading"> Company Name : JK Software
Solution</h4>
```

```
Job Location : Chennai
           Salary : 45000 
          <button type="submit" class="btn btn-primary btn-</pre>
success">Apply </button> <br> <hr>
                            </div>
                          </div>
                    </div>
</div>
</div>
</div>
<script>
  $ (document) .ready(function() {
    $("#myInput").on("keyup", function() {
    var value = $(this).val().toLowerCase();
    $("#myDIV *").filter(function() {
      $(this).toggle($(this).text().toLowerCase().indexOf(value)
> -1)
    });
    });
  });
  </script>
</body>
</html>
```

BACK END:

```
from flask import *#importing flask (Install it using python -m
pip install flask)
import os
import ibm db
import bcrypt
#import send from directory
app = Flask(__name__) #initialising flask
app.secret key = ''
PEOPLE FOLDER = os.path.join('static', 'people photo')
import ibm db
conn = ibm db.connect("DATABASE=bludb;
HOSTNAME=54a2f15b-5c0f-46df-8954-
7e38e612c2bd.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT
=32733; SECURITY=SSL;
SSLServerCertificate=DigiCertGlobalRootCA.crt; PROTOCOL=TCPIP; UID
=phb43134; PWD=mTTnIE45Raj9A0rr", '', '')
@app.route("/") #defining the routes for the home() funtion
(Multiple routes can be used as seen here)
@app.route("/home")
def dashboard():
    return render template("dashboard.html")
def createjobseeker profile():
  if request.method == 'POST':
    name = request.form['name']
    email = request.form['email']
    mobileno=request.form['mobileno']
```

```
nationality=request.form['nationality']
    qualification=request.form['qualification']
    passout=request.form['passout']
    experience=request.form['experience"];
    degree=request.form['degree'];
    per sslc=request.form['per sslc'];
    per hsc=request.form['per hsc'];
    per degree=request.form['per degree'];
    tum = request.files['resume']
tum.save(os.path.join(app.config['UPLOAD DIR'],tum.filename))
    hash=bcrypt.hashpw(password.encode('utf-
8'),bcrypt.gensalt())
    query = "SELECT EMAIL FROM JOBSEEKER WHERE EMAIL=?"
    stmt = ibm db.prepare(conn, query)
    ibm db.bind param(stmt,1,email)
    ibm db.execute(stmt)
    isUser = ibm db.fetch assoc(stmt)
    if not isUser:
      insert sql = "INSERT INTO JOBSEEKER (name, email,
mobileno, nationality,
qualification, passout, experience,
degree, per sslc, per hsc, per degree) VALUES
(?,?,?,?,?,?,?,?,?,?,?)"
      prep stmt = ibm db.prepare(conn, insert sql)
      ibm db.bind param(prep stmt, 1, name)
      ibm db.bind param(prep stmt, 2, email)
```

```
ibm db.bind param(prep stmt, 3, mobileno)
      ibm db.bind param(prep stmt, 4, nationality)
      ibm db.bind param(prep stmt, 5, qualification)
      ibm db.bind param(prep stmt, 6, passout)
      ibm db.bind param(prep stmt, 7, experience)
      ibm db.bind param(prep stmt, 8, degree)
      ibm db.bind param(prep stmt, 9, per sslc)
      ibm_db.bind_param(prep_stmt, 10, per_hsc)
      ibm db.bind param(prep stmt, 11, per degree)
      ibm db.execute(prep stmt)
      return render template('dashboard.html')
  return render template('dashboard.html', name='Home')
@app.route('/logout')
def logout():
    session.pop('email', None)
    return redirect(url for('login'))
```

SPRINT:4

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-</pre>
scale=1">
  <link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootst
rap.min.css">
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.m
in.js"></script>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstra
p.min.js"></script>
  <style>
    .rus{
        border-radius: 0%
    };
    .black{
      color:black;
    }
</style>
```

```
</head>
<body>
<!
______
<nav class="navbar navbar-inverse rus">
  <div class="container-fluid">
    <div class="navbar-header">
     <a class="navbar-brand" href="#">Skill and Job
Recommender</a>
    </div>
    <a href="#"><span class="glyphicon glyphicon-log-</pre>
in"></span> Log out</a>
    </div>
 </nav>
      <div class="container">
 <a data-toggle="tab" href="#home">Company
Profile</a>
  <a data-toggle="tab" href="#menu2">Find
candidate</a>
```

```
<div class="tab-content">
    <div id="home" class="tab-pane fade in active">
      <h3>COMPANY PROFILE</h3>
      \langle hr \rangle
      <form>
        <div class="alert alert-danger">
        <div class="form-group">
             <label for="name"><span clss="black">Company Name:
</span></label>
             <input type="text" class="form-control" id="name"</pre>
value="Mahadevan">
          </div>
          <div class="form-group">
             <label for="email"><span class="black">Company Email
Address </span></label>
             <input type="text" class="form-control" id="email"</pre>
value="Mahadevan@gmaiil.com">
          </div>
          <div class="form-group">
            <label for="email"><span class="black">Mobile No
</span></label>
             <input type="text" class="form-control" id="email"</pre>
value="9003824096">
```

```
</div>
          <div class="form-group">
             <label for="quali"><span</pre>
class="black">Location</span></label>
             <input type="text" class="form-control" id="quali"</pre>
value="India">
          </div>
          <textarea class="form-control" id="aboutyou" rows="3"</pre>
placeholder="Write few words about company"></textarea> <bre>
<br>
          <button type="submit" class="btn btn-primary btn-</pre>
success">Save changes</putton> <br> <br>
          </div>
        </form>
    </div>
    <div id="menu2" class="tab-pane fade">
```

```
<h3>Find the Condidate</h3> <hr>
     <br>
     <div class="container">
     <!_____
     <form>
                    <div class="input-group">
                      <input type="text" class="form-control"</pre>
id="myInput" placeholder="Look for a candidate">
                      <div class="input-group-btn">
                        <button class="btn btn-default"</pre>
type="submit">
                           <i class="glyphicon glyphicon-</pre>
search"></i>
                        </button>
                      </div>
                   </div>
                  </form> <br> <br>>
     <!____>
     <div style="width: 600px;">
                      <!-- Left-aligned -->
                      <div class="media">
                        <div class="media-left">
```

```
<img src="images/img avatar1.png"</pre>
class="media-object" style="width:60px">
                            </div>
                            <div class="media-body">
                               <h4 class="media-heading">Name :
Mahadevan</h4>
          <h5 class="media-heading"> Qualification : B.E
(Computer Science Engineering ) </h4>
          <button type="submit" class="btn btn-primary btn-</pre>
success">Know More </button> <br> <hr>
                            </div>
                          </div>
                     </div> <br>
<div style="width: 600px;">
                          <!-- Left-aligned -->
                          <div class="media">
                            <div class="media-left">
                               <img src="images/img avatar1.png"</pre>
class="media-object" style="width:60px">
                            </div>
                            <div class="media-body">
                                <h4 class="media-heading">Name :
Manikandan</h4>
          <h5 class="media-heading"> Qualification : B.E
(Computer Science Engineering ) </h4>
          <button type="submit" class="btn btn-primary btn-</pre>
success">Know More </button> <br> <hr>
                            </div>
```

```
</div>
                     </div> <br>
      <div style="width: 600px;">
                          <!-- Left-aligned -->
                          <div class="media">
                            <div class="media-left">
                               <img src="images/img_avatar1.png"</pre>
class="media-object" style="width:60px">
                            </div>
                            <div class="media-body">
                               <h4 class="media-heading">Name :
Kavi</h4>
          <h5 class="media-heading"> Qualification : B.E
(Computer Science Engineering )</h4>
          <button type="submit" class="btn btn-primary btn-</pre>
success">Know More </button> <br> <hr>
                            </div>
                          </div>
                     </div> <br>
      <div style="width: 600px;">
                          <!-- Left-aligned -->
                          <div class="media">
                            <div class="media-left">
                               <img src="images/img avatar1.png"</pre>
class="media-object" style="width:60px">
```

```
</div>
                            <div class="media-body">
                               <h4 class="media-heading">Name :
Ram < /h4 >
          <h5 class="media-heading"> Qualification : B.E
(Computer Science Engineering )</h4>
          <button type="submit" class="btn btn-primary btn-</pre>
success">Know More  <br> <hr>
                            </div>
                          </div>
                    </div> <br>
 </div>
</div>
</div>
<script>
  $ (document) .ready(function() {
    $("#myInput").on("keyup", function() {
    var value = $(this).val().toLowerCase();
    $("#myDIV *").filter(function() {
$(this).toggle($(this).text().toLowerCase().indexOf(value) > -1)
    });
    });
  });
  </script>
</body>
</html>
```

GITHUB & PROJECT DEMO LINK:

All the tasks of developing the application were uploadedon the github.

The github has been uploaded below.

https://github.com/IBM-EPBL/IBM-Project-25197-1659954891