**PROJECT REPORT**

**SKILL AND JOB RECOMMENDER**

**APPLICATION**

Submitted by

**PNT2022TMID07424**

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1. **INTRODUCTION:**

“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.”

* 1. **PROJECT OVERVIEW**

The project is a Job and Skill recommending web application which helps in ease of searching for job which are related to the skills a user has developed or help the user build skills based on what their dream job is.

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.

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 is simplified. 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.

* 1. **PURPOSE**

A job/skill recommender will help highly in employment as it creates an easy way to search and enquire about jobs by just sitting at place at any given time, technology was really helpful as a whole during the recent tough times and would surely be helpful in the future as well.

These types of web applications have become even more necessary, especially due to the recent pandemic which has bought about a lot of unemployment and skill gap among freshers who have no experience with internships or how the work experience will be hands on and as the offices and jobs slowly start moving back offline, we want to assure that the people are on the right track with the right number of skills and the right jobs for them.

1. **LITERATURE SURVEY:**

A survey on various papers published by professionals regarding the topic to further our understanding of how to go ahead with the project of Job and Skill Recommender.

* 1. **EXISTING PROBLEM**

The Internet-based recruiting platforms have become a primary recruitment process in most of the companies, while such platforms decrease the recruitment time and advertisement cost, they suffer from an inadequate amount of traditional information and other techniques wherein a vast number of candidates miss the opportunity of recruitment. The recommended system technology aims to help users in finding items that match their personal interests and has a successful usage in e-commerce applications to deal with problems related to information overload efficiently.

* 1. **REFERENCES**

**PAPER 1**

Name of the paper : Help me find a job:A Graph based Approach for Job Recommendation at Scale

Published Year : 2017

Author : Walid Shalaby, BahaaEddin AlAila, Mohammed Korayem, Layla Pournajaf, Khalifeh AlJadda, Shannon Quinn,and Wlodek Zadrozny

**PAPER 2**

Name of the paper : A Mobile Proximity Job Employment Recommender System

Published Year : 2020

Author : Motebang Daniel, Mpelaand, Tranos Zuva.

**PAPER 3**

Name of the paper : A recommender system for job seekers to show up companies based on psychometric preferences

Published Year : 2020

Author : Amanulla Ashraff, Fathima Farhath

**PAPER 4**

Name of the paper : Adaptive methods for Job Recommendation Based on User Clustering

Published Year : 2018

Author : Quoc-Dung Nguyen, Tin Huynh, Tu-AnhNguyen- Hoang.

**PAPER 5**

Name of the paper : Design of Information system architecture for the recommendation of tourist sites

Published Year : 2019

Author : David Arteaga, Juan Arenas, Freddy Paz, Manuel, Mariuxi Bruzza

**PAPER 6**

Name of the paper : Job Recommender Systems: A Survey

Published Year : 2019

Author : Juhi Dhameliya, Nikita Desai

**PAPER 7**

Name of the paper : Smart College Chatbot using ML and Python

Published Year : 2021

Author : Hrushikesh Koundinya K, Ajay Krishna Palakurthi, Vaishnavi Putnala, Dr. Ashok Kumar K

**PAPER 8**

Name of the paper : Job Recommendation System based on Machine Learning and Data Mining Techniques using RESTful API and Android IDE

Published Year : 2019

Author : Harsh Jain, Misha Kakkar

**PAPER 9**

Name of the paper : Collaborative Job Prediction based on Nalve Bayes Classifier using Python Platform

Published Year : 2018

Author : Dr. Savita Choudhary, Siddanth Koul, Shridhar Mishra, Anunay Thakur, Rishabh Jain

**PAPER 10**

Name of the paper : Using Collaborative Filtering to Automate Worker – Job Recommendations for CrowdSourcing Services

Published Year : 2018

Author : Julian Jarrett, M. Brian Blake

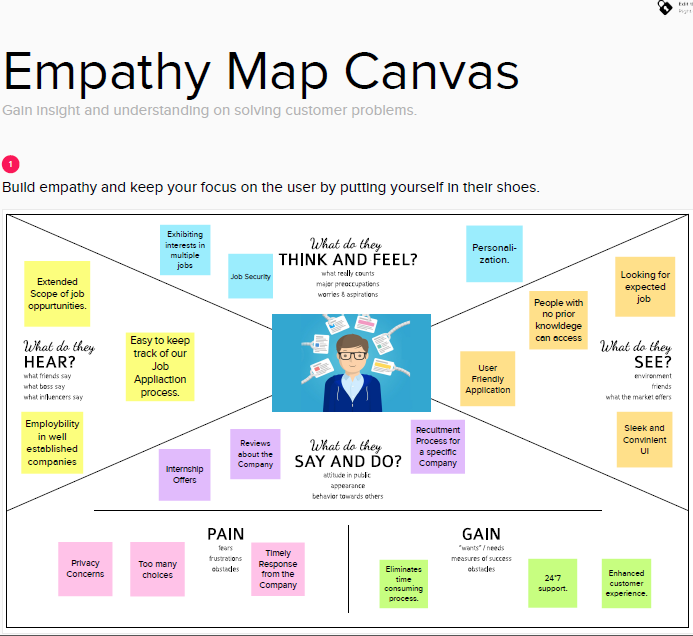
* 1. **PROBLEM STATEMENT DEFINITION**

This problem statement is mostly for a fresher or an unemployed person wo is searching for a job which is most likely based on his skills, rather than having him trained on a certain task like most MNC do these days.

In current situation recruitments done manually for lakhs of students in which many talented students may lose their opportunities due to different reasons since it is done manually, and company also need the highly talented people from the mass group for their growth. So we have build a cloud application to do this process in a efficient manner.

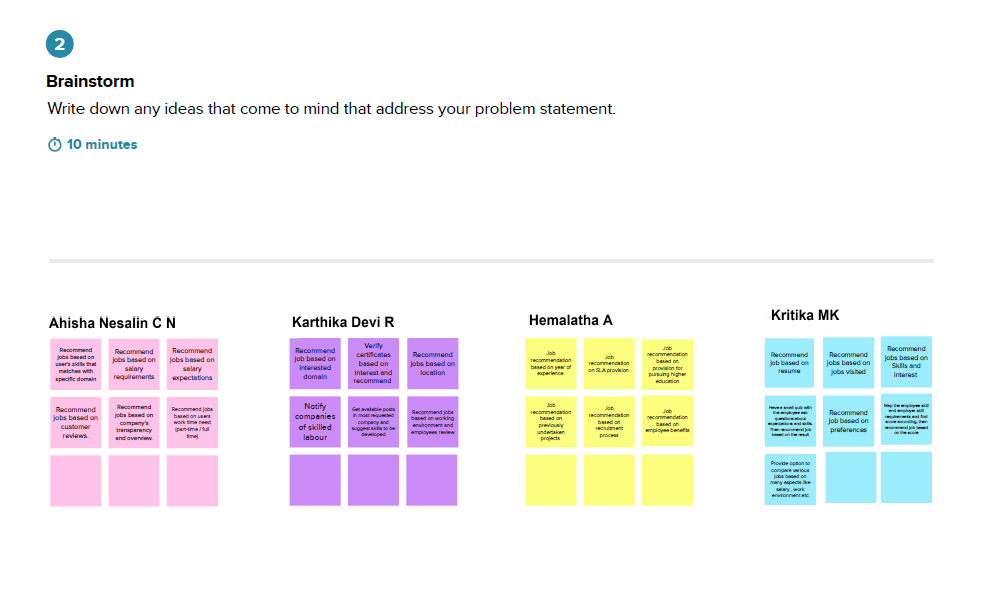
1. **IDEATION AND PROPOSED SOLUTION:**
   1. **EMPATHY MAP**

A diagrammatic Representation of our Project and the Effects it has on the Society as unemployment is at an all-time high due to the Pandemic.



* 1. **IDEATION AND BRAINSTORMING**

An in-detail explanation of the web application, its key features as well as our priorities while making the application.

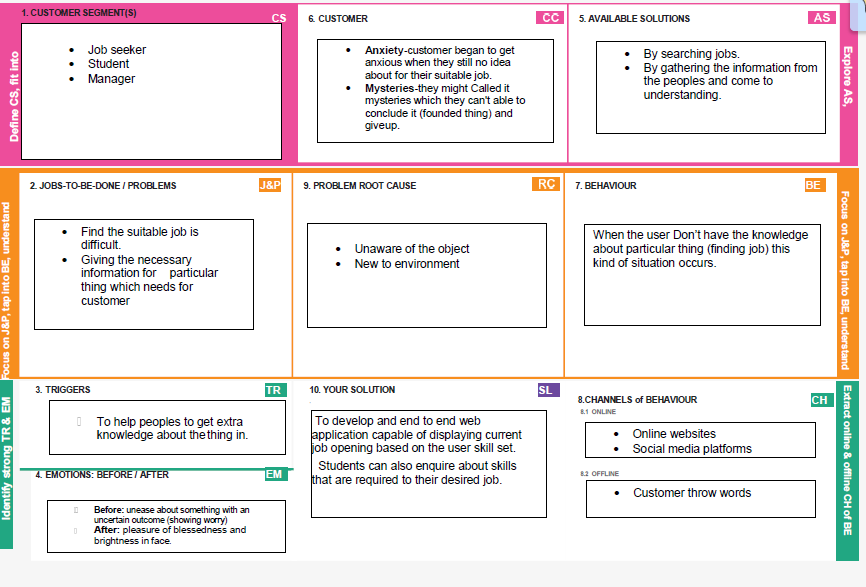


* 1. **PROPOSED SOLUTION**

A paper to further emphasize the novelty, Customer Satisfaction, Uniqueness and scalability of our solution such as using skill score and direct interaction with the company.

|  |  |  |
| --- | --- | --- |
| **S.No** | **Parameter** | **Description** |
| 1. | Problem Statement | 1. To recommend a job based on skills 2. To display the current job openings   based on the user skillset |
| 2. | Idea / Solution description | 1. Recommendation is done at a faster rate 2. Accuracy of recommendation 3. Regularly conduct test for job seekers   to recommend suitable job |
| 3. | Novelty / Uniqueness | 1. It provides robust and trusted support 2. Maintaining database which contains   details of the job availability |
| 4. | Social Impact | 1. Helps us to get the job easily 2. Very helpful in making decision   faster   1. Can be used 24\*7 |
| 5. | Business Model | 1) This can be implemented as an essential job recommender method in every country |

* 1. **PROBLEM SOLUTION FIT**

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1. **REQUIREMENT ANALYSIS:**

An explanation of Functional and non-Functional requirements of the web Application.

* 1. **FUNCTIONAL REQUIREMENTS**

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form.  Registration through Gmail.  Registration through Application. |
| FR-2 | User Confirmation | Confirmation via Email. Confirmation via OTP. |
| FR-3 | User Login | Login using credentials. |
| FR-4 | User Application | Search for desired company. |
| FR-5 | User Profile | Complete user profile by providing personal details. |
| FR-6 | User Application | User applies for the desired company. |

* 1. **NON FUNCTIONAL REQUIREMENTS**

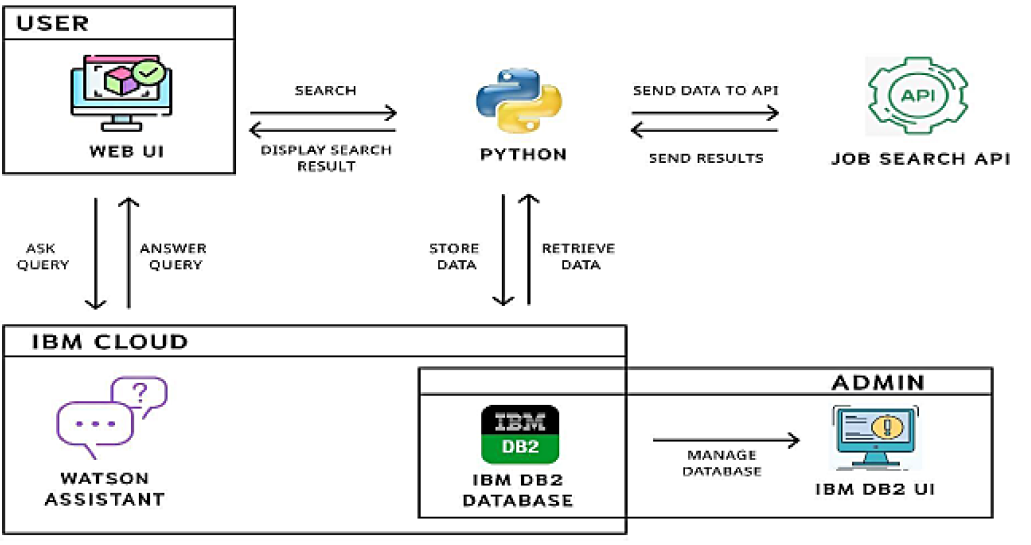
|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | ✓ User-Friendly Application. |
| NFR-2 | **Security** | ✓ End-to-End Encryption. |
| NFR-3 | **Reliability** | ✓ Based on personalised skill sets. |
| NFR-4 | **Performance** | ✓Analysing the skill sets of the user to ensure our recommendations reach them better. |
| NFR-5 | **Availability** | ✓ 24/7 chatbot support✓ 24/7 chatbot support. |
| NFR-6 | **Scalability** | ✓ Reaching the on-scale requirement of the user. |

1. **PROJECT DESIGN** 
   1. **DATA FLOW DIAGRAMS**

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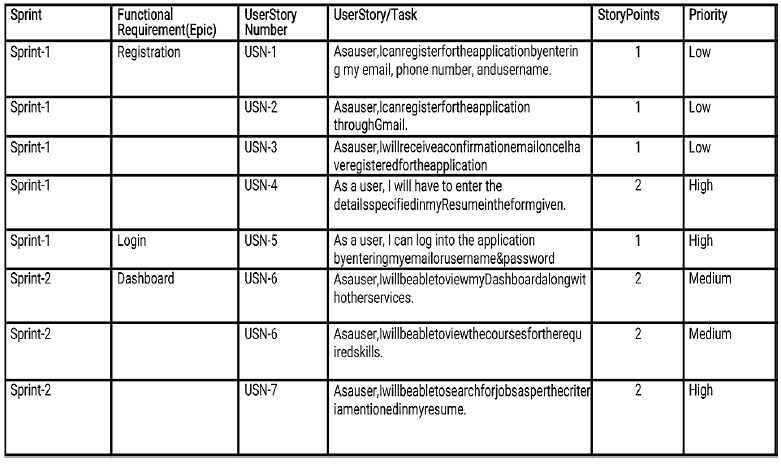
* 1. **TECHNICAL ARCHITECTURE**

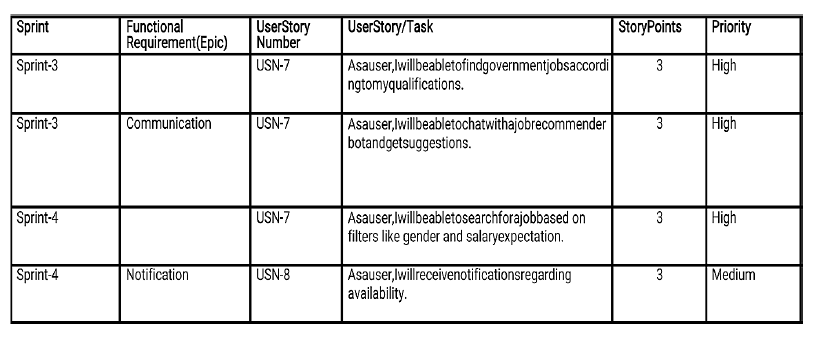
A diagrammatic representation for easier understanding of how the web application works and how the users and company employees interact, along with the and easier understanding of the method used to select employees based on their Skills.

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1. **PROJECT PLANNING AND SCHEDULING**
   1. **SPRINT PLANNING AND ESTIMATION**

Compilation and detailed explanation of all the tasks submitted till date.

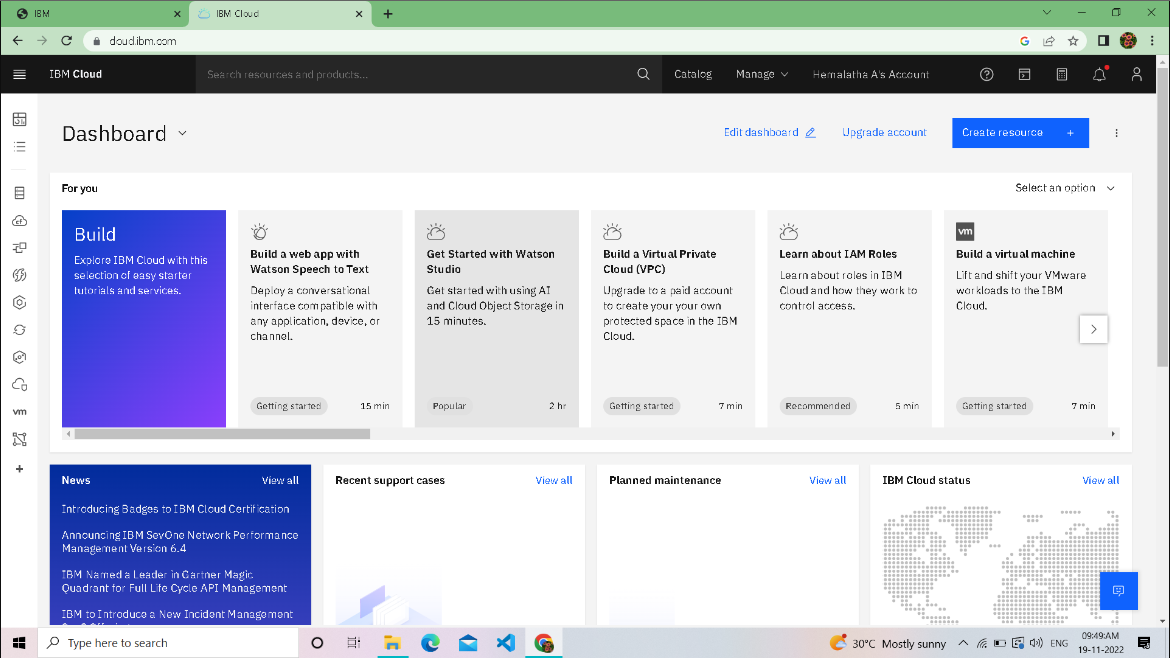
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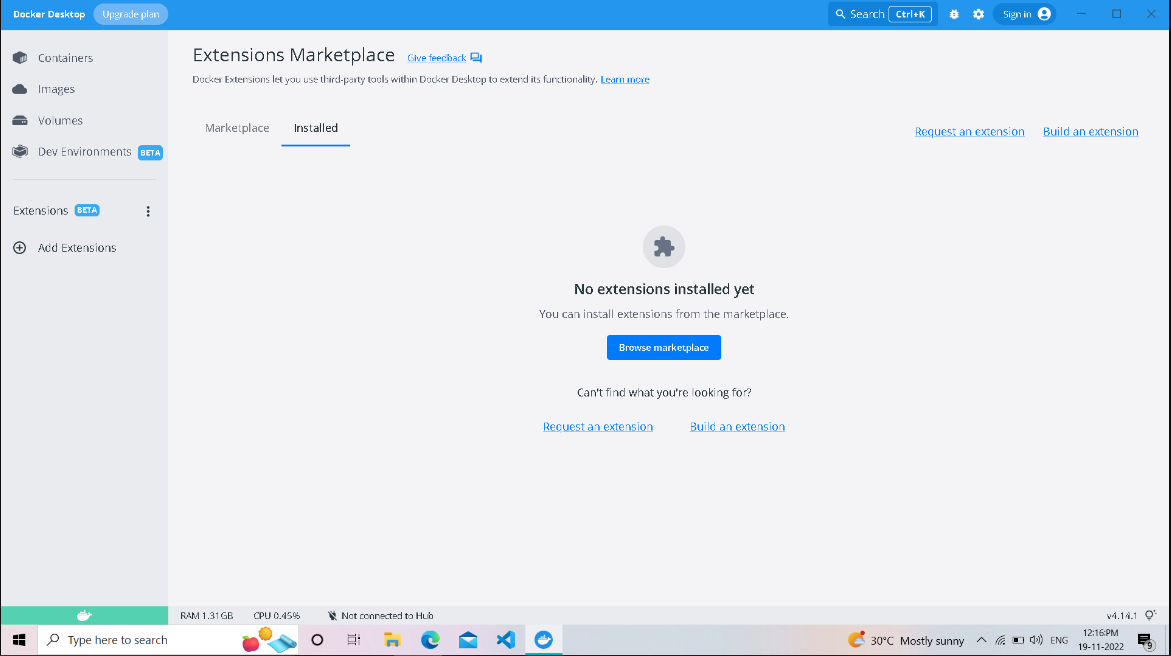
1. **CODING AND SOLUTIONING**
   1. **Feature 1**

**Setting Up Application Environment:**

1. Create Flask Project
2. Create IBM Cloud Account



1. Create IBM Cloud CLI
2. Docker CLI Installation



1. Create an account in SendGrid

**Implementing Web Application:**

1. Create UI to interact with the application
2. Create IBM DB2 and Connect with Python
   1. **Feature 2**

**Integrating Sendgrid Service**

1. Sendgrid Integration with Python Code

**Developing a Chatbot:**

1. Building Chatbot and Integrate with App

**Deployment of App in IBM Cloud:**

1. Containerize the App
2. Upload Image to IBM Container Registry
3. Deploy in Kubernetes Cluster

**Project Deployment Phase:**

1. Delivery of Sprint 1
2. Creating the UI as well as the home page
3. Creating the registration page for the user
4. Saving the users information onto the Database
5. Delivery of Sprint 2
6. Adding a chatbot to make the webpage further interactive
7. Asking the user about how they want to proceed with application
8. Successful registration and addition of users mail id

3) Delivery of Sprint 3

1) Addition of Skill scores

4) Delivery of Sprint 4

1) Deployment of the web application

**7.3 Feature 3**

**App Market**

This is one of the feature of our application Skill Pal which provides companies job details for end users

@app.route('/jobmarket')

def jobmarket():

jobids = []

jobnames = []

jobimages = []

jobdescription = []

sql = "SELECT \* FROM JOBMARKET"

stmt = ibm\_db.prepare(conn, sql)

username = session['username']

print(username)

#ibm\_db.bind\_param(stmt,1,username)

ibm\_db.execute(stmt)

joblist = ibm\_db.fetch\_tuple(stmt)

print(joblist)

while joblist != False:

jobids.append(joblist[0])

jobnames.append(joblist[1])

jobimages.append(joblist[2])

jobdescription.append(joblist[3])

joblist = ibm\_db.fetch\_tuple(stmt)

jobinformation = []

cols = 4

size = len(jobnames)

for i in range(size):

col = []

col.append(jobids[i])

col.append(jobnames[i])

col.append(jobimages[i])

col.append(jobdescription[i])

jobinformation.append(col)

print(jobinformation)

return render\_template('jobmarket.html', jobinformation = jobinformation)

@app.route('/filterjobs')

def filterjobs():

skill1 = ""

skill2 = ""

skill3 = ""

user = session['username']

sql = "SELECT \* FROM ACCOUNTSKILL WHERE USERNAME = ?"

stmt = ibm\_db.prepare(conn, sql)

ibm\_db.bind\_param(stmt,1,user)

ibm\_db.execute(stmt)

skillres = ibm\_db.fetch\_assoc(stmt)

if skillres:

skill1 =

skillres['SKILL1'] skill2 =

skillres['SKILL2'] skill3 =

skillres['SKILL3'] print(skillres) jobids = [] jobnames = [] jobimages = [] jobdescription = []

sql = "SELECT \* FROM JOBMARKET"

stmt = ibm\_db.prepare(conn, sql) username

= session['username'] print(username)

#ibm\_db.bind\_param(stmt,1,username)

ibm\_db.execute(stmt)

joblist = ibm\_db.fetch\_tuple(stmt)

print(joblist)

while joblist != False:

jobids.append(joblist[0])

jobnames.append(joblist[1])

jobimages.append(joblist[2])

jobdescription.append(joblist[3])

joblist = ibm\_db.fetch\_tuple(stmt)

jobinformation = []

cols = 4

size = len(jobnames)

print("$$$$$$$$$$$$$$$$$$$$$$$$$$$$4",skill1,skill2,skill3)

for i in range(size):

col = []

print("@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ @@@@@@@@@@@@@@@@",jobdescription[i])

if jobdescription[i].lower() == skill1.lower() or jobdescription[i].lower() == skill2.lower() or jobdescription[i].lower() == skill3.lower() :

col.append(jobids[i])

col.append(jobnames[i])

col.append(jobimages[i])

col.append(jobdescription[i])

jobinformation.append(col)

print("@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ @@@@@@@@@@@@@@@@",jobinformation)

return render\_template('jobmarket.html', jobinformation = jobinformation)

* 1. **Feature 4**

**Chatbot (Using IBM Watson)**

This chat bot feature provides help tooltip for end users if any help needed for users.

<script>

window.watsonAssistantChatOptions = {

integrationID: "9be41b76-06b0-426f-8469-962f2963cdb6", // The ID of this integration. region: "au-syd", // The region your integration is hosted in.

serviceInstanceID: "76838ca2-a227-4f56-b180-94f01901cdbf", // 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.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";

document.head.appendChild(t);

});

</script>

1. **ADVANTAGES AND DISADVANTAGES**

The web application in itself is a demo of what it can be done if more resources, budget and time can be invested. The idea and the concept of creating a web application based on skill score could highly shorten the progress of recruitment especially if the job needed is very particular about a certain skill being required further on tests. However, the particular web application could be worked upon to be more User friendly and more accessible.

1. **CONCLUSION**

In the last few years, job recommender systems have become popular since they have successfully reduced the information overload by generating personalized job suggestions. Although in the project, it exists like a variety of techniques and strategies used as a 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 by mainly focusing on skills and providing them scores. Thus, presenting a general overview of a job/skill recommendation application aiming to facilitate research and real-world application design regarding this important issue.

1. **FUTURE SCOPE**

For the future certain more criteria could be added which helps to have more personalized searching job listings such as work from home which has become more popular as of the global pandemic and adding jobs which could are for the smaller companies and start-ups.

**SOURCE CODE:**

1. **app.py**

from turtle import st

from flask import Flask, render\_template, request, redirect, url\_for, session

from markupsafe import escape

import ibm\_db

conn = ibm\_db.connect("DATABASE=bludb;HOSTNAME=764264db-9824-4b7c-82df-40d1b13897c2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=32536;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=mhv63327;PWD=ivgNcBCw3GMbJ6IE",'','')

print("Connected Successfully !")

app = Flask(\_\_name\_\_)

app.secret\_key = 'Done'

@app.route('/')

@app.route('/index')

def index():

return render\_template('index.html')

@app.route('/jobs')

def jobs():

return render\_template('jobs.html')

@app.route('/growthzone')

def growthzone():

return render\_template('growthzone.html')

@app.route('/login')

def login():

return render\_template('login.html')

@app.route('/register')

def register():

return render\_template('register.html')

@app.route("/registerrec",methods = ['POST', 'GET'])

def registerrec():

msg=''

if request.method == 'POST':

name = request.form['name']

number = request.form['number']

email = request.form['email']

password = request.form['password']

cpassword = request.form['cpassword']

sql = "SELECT \* FROM register WHERE email =?"

stmt = ibm\_db.prepare(conn, sql)

ibm\_db.bind\_param(stmt,1,email)

ibm\_db.execute(stmt)

account = ibm\_db.fetch\_assoc(stmt)

print(account)

if account:

return render\_template('login.html', msg="You are already a member, please login using your details")

else:

insert\_sql = "INSERT INTO register VALUES (?,?,?,?,?)"

prep\_stmt = ibm\_db.prepare(conn, insert\_sql)

ibm\_db.bind\_param(prep\_stmt, 1, name)

ibm\_db.bind\_param(prep\_stmt, 2, number)

ibm\_db.bind\_param(prep\_stmt, 3, email)

ibm\_db.bind\_param(prep\_stmt, 4, password)

ibm\_db.bind\_param(prep\_stmt, 5, cpassword)

ibm\_db.execute(prep\_stmt)

return render\_template('login.html', msg="Registered successfuly..login to continue")

#Login

@app.route("/loginrec", methods =['POST','GET'])

def loginrec():

smsg = ''

if request.method == 'POST' and 'email' in request.form and 'password' in request.form:

email = request.form['email']

password = request.form['password']

if((email and password) is not None ):

sql = "SELECT \* FROM register WHERE email = ?"

stmt = ibm\_db.prepare(conn, sql)

ibm\_db.bind\_param(stmt,1,email)

prep\_stmt = ibm\_db.execute(stmt)

dicto = ibm\_db.fetch\_assoc(stmt)

while(dicto != False):

res1 = dicto["EMAIL"]

res2 = dicto['PASSWORD']

res3 = dicto['NAME']

res4 = dicto['NUMBER']

if(res1 == email and res2 == password):

session['email'] = res1

session['pass'] = res2

session['name'] = res3

session['number'] = res4

return render\_template('profile.html')

else:

return render\_template('login.html', smsg = 'Incorrect username / password !')

else:

return render\_template('register.html', smsg = 'Not yet registered')

else:

return render\_template('login.html', smsg = 'Fill all the details')

else:

return render\_template('login.html')

#contact

@app.route("/contactrec",methods = ['POST', 'GET'])

def contactrec():

cmsg=''

if request.method == 'POST':

Name = request.form['name']

MobileNumber = request.form['number']

insert\_sql = "INSERT INTO contact VALUES (?,?)"

prep\_stmt = ibm\_db.prepare(conn, insert\_sql)

ibm\_db.bind\_param(prep\_stmt, 1, Name)

ibm\_db.bind\_param(prep\_stmt, 2, MobileNumber)

ibm\_db.execute(prep\_stmt)

return render\_template('index.html', cmsg="We will contact you soon")

@app.route("/connectrec",methods = ['POST', 'GET'])

def connectrec():

cnmsg=''

if request.method == 'POST':

CustomerName = request.form['CustomerName']

MailID = request.form['MailID']

ContactNumber = request.form['ContactNumber']

ConvenientTime = request.form['ConvenientTime']

CustomerMessage = request.form['CustomerMessage']

insert\_sql = "INSERT INTO connectwithus VALUES (?,?,?,?,?)"

prep\_stmt = ibm\_db.prepare(conn, insert\_sql)

ibm\_db.bind\_param(prep\_stmt, 1, CustomerName)

ibm\_db.bind\_param(prep\_stmt, 2, MailID)

ibm\_db.bind\_param(prep\_stmt, 3, ContactNumber)

ibm\_db.bind\_param(prep\_stmt, 4, ConvenientTime)

ibm\_db.bind\_param(prep\_stmt, 5, CustomerMessage)

ibm\_db.execute(prep\_stmt)

return render\_template('index.html', cnmsg="Lets Travel Together")

@app.route("/jobsrec",methods = ['POST', 'GET'])

def jobsrec():

jmsg=''

if request.method == 'POST':

CandidateName = request.form['CandidateName']

CompanyName = request.form['CompanyName']

EmployeeRole = request.form['EmployeeRole']

CandidateMail = request.form['CandidateMail']

CandidateNumber = request.form['CandidateNumber']

insert\_sql = "INSERT INTO hirerform VALUES (?,?,?,?,?)"

prep\_stmt = ibm\_db.prepare(conn, insert\_sql)

ibm\_db.bind\_param(prep\_stmt, 1, CandidateName)

ibm\_db.bind\_param(prep\_stmt, 2, CompanyName)

ibm\_db.bind\_param(prep\_stmt, 3, EmployeeRole)

ibm\_db.bind\_param(prep\_stmt, 4, CandidateMail)

ibm\_db.bind\_param(prep\_stmt, 5, CandidateNumber)

ibm\_db.execute(prep\_stmt)

return render\_template('jobs.html', jmsg="We will contact you soon")

@app.route('/profile')

def profile():

return render\_template('profile.html')

@app.route('/logout')

def logout():

# Remove session data, this will log the user out

session.pop('email', None)

session.pop('password', None)

session.pop('name', None)

session.pop('number', None)

# Redirect to login page

return redirect(url\_for('login'))

if \_\_name\_\_ == "\_\_main\_\_":

app.run(host='0.0.0.0', port=5000)

1. **register.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Register to find your job - Job Junction</title>

<link rel="icon" type="image/gif/png" href="../static/images/job\_junction-logo-head.png">

<script src="https://kit.fontawesome.com/7bb9495e7b.js" crossorigin="anonymous"></script>

<link rel="stylesheet" href="{{ url\_for('static', filename='css/registerstyles.css') }}">

<script src="{{ url\_for('static', filename='index.js') }}" defer></script>

</head>

<body id="body">

<div class="menu\_icon" id="menu">

<div class="first\_div"></div>

<div class="second\_div"></div>

<div class="third\_div"></div>

</div>

<header>

<div class="brand\_box" style="cursor: pointer;">

<img onclick="location.href='/index';" src="../static/images/job\_junction-main.png" alt="Job Junction Logo" />

</div>

<nav>

<ul class="nav\_links" id="nav\_links">

<li class="nav\_link"><a href="/growthzone">Growth Zone ?</a></li>

<li class="nav\_link"><a href="/jobs">Jobs ??</a></li>

{% if session['email'] %}

<li class="nav\_link special\_link" id="special\_link"><a href="/profile" id="contact\_link">Your Profile ??</a></li>

{% else %}

<li class="nav\_link special\_link" id="special\_link"><a href="/register" id="contact\_link">Login / Register</a></li>

{% endif %}

</ul>

</nav>

</header>

<div class="footer">

<div class="header">

<p class="head">Register to <span style="color:#2246C2">move ahead in your life</span></p>

<p class="description">Fill your basic information. We will contact you further guidance till job recommendation based on your skill</p>

</div>

<div class="body">

<div class="content">

{{ smsg }}

<form action="{{ url\_for('registerrec') }}" method="POST" class="form\_footer">

<div>

<input type="text" name="name" placeholder="Your Name"> <span style="font-size:14px; color:white;"></span>

<input type="email" name="email" placeholder="Your Email"> <span style="font-size:14px; color:white;"></span>

<input type="tel" name="number" placeholder="Your Mobile Number"> <span style="font-size:14px; color:white;"></span>

<input type="password" name="password" placeholder="Your Password"> <span style="font-size:14px; color:white;"></span>

<input type="password" name="cpassword" placeholder="Your Password"> <span style="font-size:14px; color:white;"></span>

</div>

<div><button type="submit" name="submit" class="button\_send" style="margin:16px auto; cursor: pointer;">REGISTER</button></div>

</form>

</div>

</div>

</div>

<div class="footer">

<div class="header">

<p class="description">Already have an account ?</p>

<p class="description" style="cursor:pointer;" onclick="location.href='/login';"><span style="color:#2246C2">Let's Login</span></p>

</div>

</div>

</body>

1. **profile.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Hai ??</title>

<link rel="icon" type="image/gif/png" href="../static/images/job\_junction-logo-head.png">

<script src="https://kit.fontawesome.com/7bb9495e7b.js" crossorigin="anonymous"></script>

<link rel="stylesheet" href="{{ url\_for('static', filename='css/profilestyles.css') }}">

<script src="{{ url\_for('static', filename='index.js') }}" defer></script>

</head>

<body id="body">

<div class="menu\_icon" id="menu">

<div class="first\_div"></div>

<div class="second\_div"></div>

<div class="third\_div"></div>

</div>

<header>

<div class="brand\_box" style="cursor: pointer;">

<img onclick="location.href='/index';" src="../static/images/job\_junction-main.png" alt="Job Junction Logo" />

</div>

<nav>

<ul class="nav\_links" id="nav\_links">

<li class="nav\_link"><a href="/growthzone">Growth Zone ?</a></li>

<li class="nav\_link"><a href="/jobs">Jobs ??</a></li>

{% if session['email'] %}

<li class="nav\_link special\_link" id="special\_link"><a href="/profile" id="contact\_link">Your Profile ??</a></li>

{% else %}

<li class="nav\_link special\_link" id="special\_link"><a href="/register" id="contact\_link">Login / Register</a></li>

{% endif %}</ul>

</nav>

</header>

<div class="myprofile">

<div class="header">

<p class="head">{{ smsg }}</p>

<p class="head">Welcome Back!</p>

</div>

<div class="body">

<div class="profiles">

<div class="profile">

<p class="profile\_title"> {{ session['name'] }}<span class="job\_category"></span></p>

<a class="profile\_title" style="text-align: center; display: block; margin-top: 16px;" href="mailto:{{session['email']}}">{{session['email']}}</a>

<a class="profile\_title" style="text-align: center; display: block; margin-top: 16px;" href="tel:{{session['number']}}">{{session['number']}}</a>

<p class="profile\_company" onclick="location.href='#'"></p>

</div>

</div>

</div>

</div>

<div class="footer">

<div class="header">

<form action="{{url\_for('logout')}}">

<p class="description" style="cursor:pointer; text-align: center;;" onclick="location.href='/logout';"><button type="submit" name="logout" class="button\_send" style="margin:16px auto; text-align: center; cursor: pointer;">LOGOUT</button></p>

</form>

</div>

</div>

</body>

1. **login.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Login to find your job - Job Junction</title>

<link rel="icon" type="image/gif/png" href="../static/images/job\_junction-logo-head.png">

<script src="https://kit.fontawesome.com/7bb9495e7b.js" crossorigin="anonymous"></script>

<link rel="stylesheet" href="{{ url\_for('static', filename='css/loginstyles.css')}}">

<script src="{{url\_for('static', filename='index.js')}}" defer></script>

<style>

.modal{

text-align: center;

width:100%;

position: fixed;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

}

.modal\_bottom{

background-color: #2246C2;

padding:24px;

display: inline-block;

border-radius: 5px;

}

.modal\_bottom p{

font-family: 'Zilla Slab';

font-style: normal;

font-weight: 400;

font-size: 20px;

line-height: 38px;

display: flex;

align-items: center;

color: #F8F8F8;

}

.modal\_send{

background: #FBFBFB;

border-radius: 3px;

margin-top: 12px;

border: none;

padding:16px 8px;

outline:none;

margin-right: 16px;

font-family: 'Montserrat';

font-style: normal;

font-weight: 700;

font-size: 12px;

line-height: 128.69%;

text-align: center;

color: #2246C2;

}

</style>

</head>

<body id="body">

<div class="menu\_icon" id="menu">

<div class="first\_div"></div>

<div class="second\_div"></div>

<div class="third\_div"></div>

</div>

<header>

<div class="brand\_box" style="cursor: pointer;">

<img onclick="location.href='/index'" src="../static/images/job\_junction-main.png" alt="Job Junction Logo" />

</div>

<nav>

<ul class="nav\_links" id="nav\_links">

<li class="nav\_link"><a href="/growthzone">Growth Zone ?</a></li>

<li class="nav\_link"><a href="/jobs">Jobs ??</a></li>

{% if session['email'] %}

<li class="nav\_link special\_link" id="special\_link"><a href="/profile" id="contact\_link">Your Profile ??</a></li>

{% else %}

<li class="nav\_link special\_link" id="special\_link"><a href="/register" id="contact\_link">Login / Register</a></li>

{% endif %}

</ul>

</nav>

</header>

<div class="footer">

<div class="header">

<p class="head">Login to <span style="color:#2246C2">Pursuing your goals</span></p>

<p class="description">You are at right time. Start learn and apply for jobs</p>

</div>

<div class="body">

<div class="content">

{{msg}}

{{ smsg }}

<form action="{{ url\_for('loginrec') }}" method="POST" class="form\_footer">

<div>

<input type="email" name="email" placeholder="Your Email">

<input type="password" name="password" placeholder="Your Password">

<span style="font-size:14px; color:white;"></span>

</div>

<div><button type="submit" name="login" class="button\_send" style="margin:16px auto; cursor: pointer;">LOGIN</button></div>

</form>

</div>

</div>

</div>

<div class="footer">

<div class="header">

<p class="description" style="cursor:pointer;" onclick="location.href='/register'">Don't have an account?<span style="color:#2246C2"> Register</span></p>

</div>

</div>

</body>

1. **jobs.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Jobs ?? - Start your carrer!</title>

<link rel="icon" type="image/gif/png" href="../static/images/job\_junction-logo-head.png">

<script src="https://kit.fontawesome.com/7bb9495e7b.js" crossorigin="anonymous"></script>

<link rel="stylesheet" href="{{ url\_for('static', filename='css/jobstyles.css')}}">

<script src="{{url\_for('static', filename='index.js')}}" defer></script>

<style>

.modal{

text-align: center;

width:100%;

position: fixed;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

}

.modal\_bottom{

background-color: #2246C2;

padding:24px;

display: inline-block;

border-radius: 5px;

}

.modal\_bottom p{

font-family: 'Zilla Slab';

font-style: normal;

font-weight: 400;

font-size: 20px;

line-height: 38px;

display: flex;

align-items: center;

color: #F8F8F8;

}

.modal\_send{

background: #FBFBFB;

border-radius: 3px;

margin-top: 12px;

border: none;

padding:16px 8px;

outline:none;

margin-right: 16px;

font-family: 'Montserrat';

font-style: normal;

font-weight: 700;

font-size: 12px;

line-height: 128.69%;

text-align: center;

color: #2246C2;

}

</style>

</head>

<body id="body">

<div class="menu\_icon" id="menu">

<div class="first\_div"></div>

<div class="second\_div"></div>

<div class="third\_div"></div>

</div>

<header>

<div class="brand\_box" style="cursor: pointer;">

<img onclick="location.href='/index';" src="{{ url\_for('static', filename='images/job\_junction-main.png')}}" alt="Job Junction Logo" />

</div>

<nav>

<ul class="nav\_links" id="nav\_links">

<li class="nav\_link"><a href="/growthzone">Growth Zone ?</a></li>

<li class="nav\_link"><a href="#">Jobs ??</a></li>

{% if session['email'] %}

<li class="nav\_link special\_link" id="special\_link"><a href="/profile" id="contact\_link">Your Profile ??</a></li>

{% else %}

<li class="nav\_link special\_link" id="special\_link"><a href="/register" id="contact\_link">Login / Register</a></li>

{% endif %}

</ul>

</nav>

</header>

<div class="ourjobs">

<div class="header">

<p class="head">Best Jobs For You ??</p>

<p class="description">Hand picked jobs for you based on your skillset</p>

</div>

<div class="body">

<div class="jobs">

<div class="job">

<p class="job\_title">One Step ahead ??</p>

<p class="job\_description">We recommend you the jobs, once we know about your skils. Don't hesitate or fear to call us.</p>

<button onclick="location.href='tel:9080244817'" class="job\_button">Call Us ??</button>

</div>

</div>

</div>

<div class="header\_bottom">

<p>Do you want Skilled Employees. Fill this form. Our team will get back you ??</p>

{{ jmsg }}

<form action="{{ url\_for('jobsrec') }}" method="POST" style="display: flex;flex-direction: column;align-items: center;">

<input type="text" name="CandidateName" placeholder="Your Name"> <span style="font-size:14px; color:white;"></span>

<input type="text" name="CompanyName" placeholder="Your Company Name"> <span style="font-size:14px; color:white;"></span>

<input type="text" name="EmployeeRole" placeholder="Employee Role"> <span style="font-size:14px; color:white;"></span>

<input type="mail" name="CandidateMail" placeholder="Your Email"> <span style="font-size:14px; color:white;"></span>

<input type="tel" name="CandidateNumber" placeholder="Your Number"> <span style="font-size:14px; color:white;"></span>

<button type="submit" name="jobSubmit" class="button\_send"><i class="fa-solid fa-paper-plane icon"></i>SEND</button>

</form>

</div>

</div>

</body>

1. **index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Job Junction</title>

<link rel="icon" type="image/gif/png" href="../static/images/job\_junction-logo-head.png">

<script src="https://kit.fontawesome.com/7bb9495e7b.js" crossorigin="anonymous"></script>

<link rel="stylesheet" href="{{ url\_for('static', filename='css/indexstyles.css') }}">

<script src="{{ url\_for('static', filename='index.js') }}" defer></script>

<style>

/\*#body{

background-color: #2246c247;

}\*/

.modal{

text-align: center;

}

.modal\_bottom{

background-color: #2246C2;

padding:24px;

display: inline-block;

border-radius: 5px;

}

.modal\_bottom p{

font-family: 'Zilla Slab';

font-style: normal;

font-weight: 400;

font-size: 20px;

line-height: 38px;

display: flex;

align-items: center;

color: #F8F8F8;

}

.modal\_send{

background: #FBFBFB;

border-radius: 3px;

margin-top: 12px;

border: none;

padding:16px 8px;

outline:none;

margin-right: 16px;

font-family: 'Montserrat';

font-style: normal;

font-weight: 700;

font-size: 12px;

line-height: 128.69%;

text-align: center;

color: #2246C2;

}

</style>

</head>

<body id="body">

<div class="menu\_icon" id="menu">

<div class="first\_div"></div>

<div class="second\_div"></div>

<div class="third\_div"></div>

</div>

<header>

<div class="brand\_box">

<img src="../static/images/job\_junction-main.png" alt="Job Junction Logo" />

</div>

<nav>

<ul class="nav\_links" id="nav\_links">

<li class="nav\_link"><a href="/growthzone">Growth Zone ?</a></li>

<li class="nav\_link"><a href="/jobs">Jobs ??</a></li>

{% if session['email'] %}

<li class="nav\_link special\_link" id="special\_link"><a href="/profile" id="contact\_link">Your Profile ??</a></li>

{% else %}

<li class="nav\_link special\_link" id="special\_link"><a href="/register" id="contact\_link">Login / Register</a></li>

{% endif %}

</ul>

</nav>

</header>

<div class="hero">

<div class="\_hero hero\_left">

<div>

<p class="hero\_left-heading">We are here to transform<br><span class="special\_secondary">Your </span><span class="special\_primary">Life ?</span></p>

<p class="hero\_left-content">One & Only platform to support your skills, To get a job with your skills and To strenthen your Skills</p>

<div class="hero\_left-statistics">

<div class="hero\_left-stat">

<p class="hero\_left-statnum">10+</p>

<p class="hero\_left-statlabel">Start-Ups</p>

</div>

<div class="hero\_left-stat">

<p class="hero\_left-statnum">50+</p>

<p class="hero\_left-statlabel">Job Offers</p>

</div>

<div class="hero\_left-stat">

<p class="hero\_left-statnum">25+</p>

<p class="hero\_left-statlabel">Categories</p>

</div>

</div>

</div>

</div>

<div class="\_hero hero\_right">

<img src="{{url\_for('static', filename='images/job\_junction-hero-image.svg')}}" alt="job junction hero image">

</div>

</div>

<div class="header\_bottom">

<p>Don't want to Register at first ?? then just talk to us...?? </p>

{{ cmsg }}

<form action="{{ url\_for('contactrec') }}" method="POST">

<input type="text" name = "name" placeholder="Your Name">

<input type="tel" name = "number" placeholder="Your Number" >

<button type="submit" name="send" class="button\_send"><i class="fa-solid fa-paper-plane icon"></i>SEND</button> <br><br>

</form>

</div>

<div class="ourservices">

<div class="header">

<p class="head">Our Services</p>

<p class="description">From finding your skill to get a job in your area of interest ??</p>

</div>

<div class="body">

<div class="content">

<div class="content\_service">

<p>Skill Finding</p>

</div>

<div class="content\_service">

<p>Skill Enhancement</p>

</div>

<div class="content\_service">

<p>Job Recommendation</p>

</div>

<div class="content\_service">

<p>Community Building</p>

</div>

</div>

</div>

</div>

<div class="ourworks">

<div class="header">

<p class="head">Our Efforts</p>

<p class="description">We aren't here to just talk, We are trying to solve your problems through our platform</p>

</div>

<div class="body">

<div class="content">

<div class="content\_project">

<img src="{{url\_for('static', filename='images/effort1.jpg')}}" alt="Job Junction Skill Finding Sessions">

<h5>Skill Finding Sessions</h5>

<p>Event organised by <span style="color: #FFB800;">Job Junction </span> in Karur. More than <span style="color: #FFB800;"> 100+ students participated,</span> and got guidance from us.</p>

<button>View More</button>

</div>

<div class="content\_project">

<img src="{{url\_for('static', filename='images/effort2.jpg')}}" alt="Job Junction Interview Sessions">

<h5>Interview Sessions</h5>

<p>From skill finding sessions, students got <span style="color: #040d31;">interviews based on their skill levels.</span> More than 200+ students got benefitted from this session.</p>

<button>View More</button>

</div>

</div>

</div>

<div class="bottom">

<p>We have more to show you ??</p>

<a href="/growthzone">Want to see ? <span>CLICK HERE <i class="fa-solid fa-arrow-right icon"></i></span></a>

<img class="decimg decimg1" src="{{url\_for('static', filename='images/jobjunction\_uiux.svg')}}" alt="UIUX Design">

<img class="decimg decimg2" src="{{url\_for('static', filename='images/jobjunction\_appdevelopment.svg')}}" alt="App Development">

<img class="decimg decimg3" src="{{url\_for('static', filename='images/jobjunction\_endtoendsolutions.svg')}}" alt="End-to-End Solutions">

<img class="decimg decimg4" src="{{url\_for('static', filename='images/jobjunction\_webdevelopment.svg')}}" alt="Web Development">

</div>

</div>

<div class="happycustomers">

<div class="header">

<p class="head">Our <span style="color:#2246C2">Words to you</span></p>

<p class="description">We suffered a lot in finding jobs. So, we are here to solve it ??</p>

</div>

<div class="body">

<div class="content">

<div class="content\_feedbacks">

<div class="feedback">

<p>In our beginning of our career as a fresher, We struggled a lot to find jobs. Platforms like LinkedIn, Naukri and Indeed suggest jobs just by our keywords and resume. It doesn't provide the exact jobs for us. Company's description for aren't optimised for freshers. So, we talk to you and recommend you the jobs, courses to take and personalised guidance in a more human-centered way ????????????</p>

<h4>- Job Junction Team</h4>

</div>

<img class="quote" src="{{url\_for('static', filename='images/quote.svg')}}" alt="Job Junction Customers Feedback Quote">

</div>

<div class="content\_svg">

<img src="{{url\_for('static', filename='images/jobjunction\_customer\_svg.svg')}}" alt="Job Junction Happy Customers.">

</div>

</div>

</div>

</div>

<div class="footer">

<div class="header">

<p class="head">Want to <span style="color:#2246C2">Connect With Us</span></p>

<p class="description">Don't hesitate. We are here to clear your confusions. Feel Free to contact Us.</p>

</div>

<div class="body">

<div class="content">

{{ cnmsg }}

<form action="{{ url\_for('connectrec') }}" method="POST" class="form\_footer">

<div>

<input type="text" name="CustomerName" placeholder="Your Name" >

<input type="email" name="MailID" placeholder="Your Email" >

<input type="tel" name="ContactNumber" placeholder="Your Mobile Number" >

<input type="time" name="ConvenientTime" placeholder="Your Convinient time to speak" >

<input type="text" name="CustomerMessage" placeholder="Your Message in your language">

</div>

<div><button type="submit" name="connect" class="button\_send" style="margin:16px auto;"><i class="fa-solid fa-paper-plane icon"></i>CONNECT</button></div>

</form>

</div>

</div>

<div class="bottom">

<div class="line"></div>

<div class="header">

<p class="head">More Ways To Reach Us</p>

<p onclick="location.href='https://in.linkedin.com/in/sunilprasadkuppusamy';" class="head" style="color: lightblue; margin-top:16px; margin-bottom:32px; cursor: pointer; line-height: normal; font-family: 'Montserrat'; font-style: normal;font-weight: 400;">With ? from Job Junction</p>

</div>

<div class="contact\_info" style="cursor:pointer;">

<p onclick="location.href='mailto:sunilprasadk2001@gmail.com'"><span><i class="fa-solid fa-envelope"></i></span> contact@job-junction.com</p>

<p onclick="location.href='tel:9080244817'"><span><i class="fa-solid fa-phone"></i></span> +91 9080244817</p>

</div>

<div class="social\_info">

<div style="text-align: center;">

<a href="#">FACEBOOK</a>

<span><i class="fa-solid fa-circle" style="color: #D9D9D9; font-size: 8px; margin:auto 16px;"></i></span>

<a href="#">TWITTER</a>

<span><i class="fa-solid fa-circle" style="color: #D9D9D9; font-size: 8px; margin:auto 16px;"></i></span>

<a href="#">LINKEDIN</a>

</div>

</div>

<div class="footer\_bottom">

<p>2022 Job Junction Pvt Ltd | All rights reserved </p>

</div>

</div>

</div>

</body>

1. **growthzone.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Growth Zone ? - All you need to start !</title>

<link rel="icon" type="image/gif/png" href="../static/images/job\_junction-logo-head.png">

<script src="https://kit.fontawesome.com/7bb9495e7b.js" crossorigin="anonymous"></script>

<link rel="stylesheet" href="{{ url\_for('static', filename='css/growthzonestyles.css') }}">

<script src="{{ url\_for('static', filename='index.js') }}" defer></script>

</head>

<body id="body">

<div class="menu\_icon" id="menu">

<div class="first\_div"></div>

<div class="second\_div"></div>

<div class="third\_div"></div>

</div>

<header>

<div class="brand\_box" style="cursor: pointer;">

<img onclick="location.href='/index';" src="{{url\_for('static', filename='images/job\_junction-main.png')}}" alt="Job Junction Logo" />

</div>

<nav>

<ul class="nav\_links" id="nav\_links">

<li class="nav\_link"><a href="#">Growth Zone ?</a></li>

<li class="nav\_link"><a href="/jobs">Jobs ??</a></li>

{% if session['email'] %}

<li class="nav\_link special\_link" id="special\_link"><a href="/profile" id="contact\_link">Your Profile ??</a></li>

{% else %}

<li class="nav\_link special\_link" id="special\_link"><a href="/register" id="contact\_link">Login / Register</a></li>

{% endif %}

</ul>

</nav>

</header>

<div class="ourgrowths">

<div class="header">

<p class="head">Growth Zone ?</p>

<p class="description">All resources in one place ?? from drawing to coding. Mostly for free ??</p>

</div>

<div class="body">

<!--CODING-->

<div class="head" style="text-align:center; margin-top:32px; width:100%;"></div>

<div class="growths">

<div class="growth" style="cursor:pointer;">

<p target="\_blank" onclick="location.href=''" class="growth\_title"> <span class="growth\_category"></span></p>

</div>

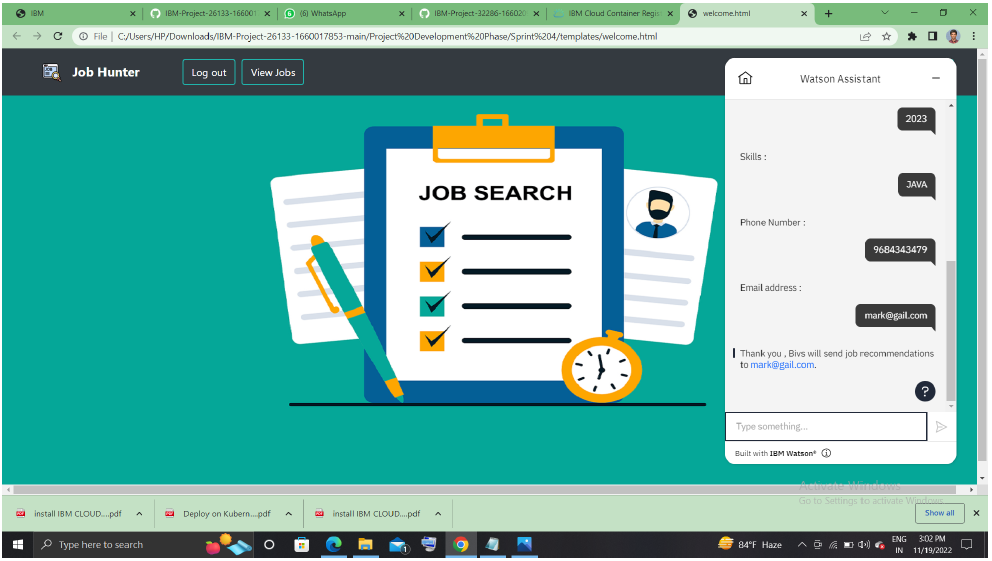
</div>

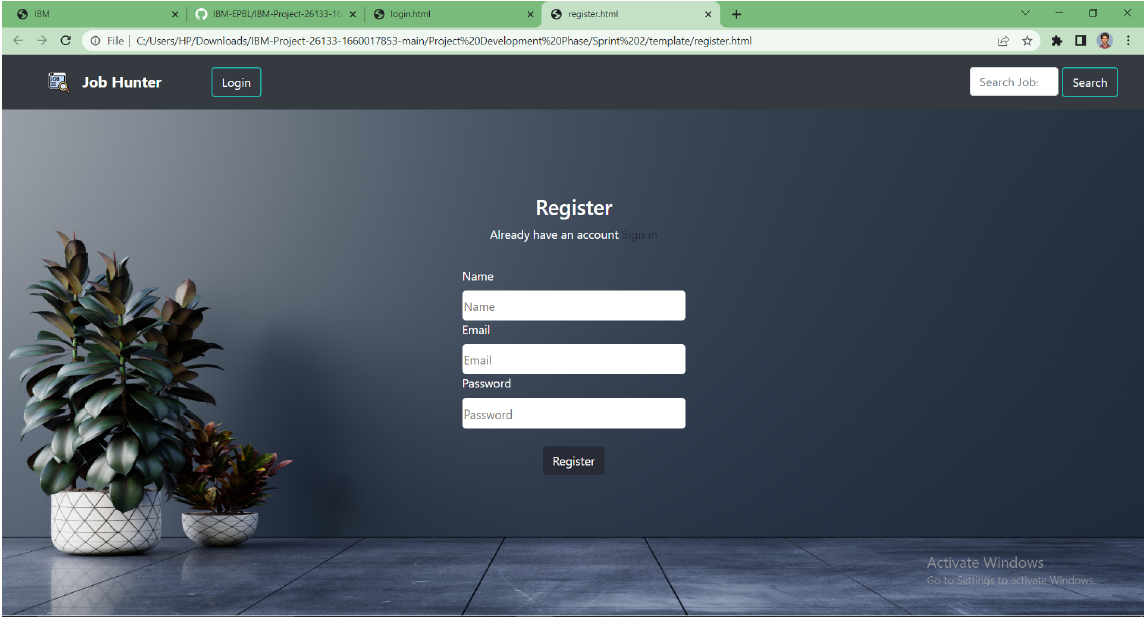
</div>

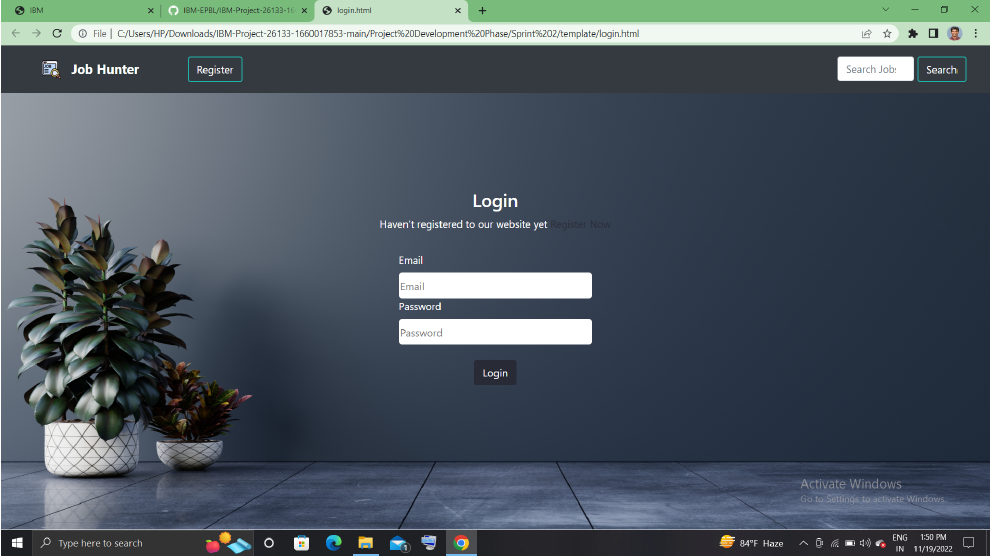
</div>

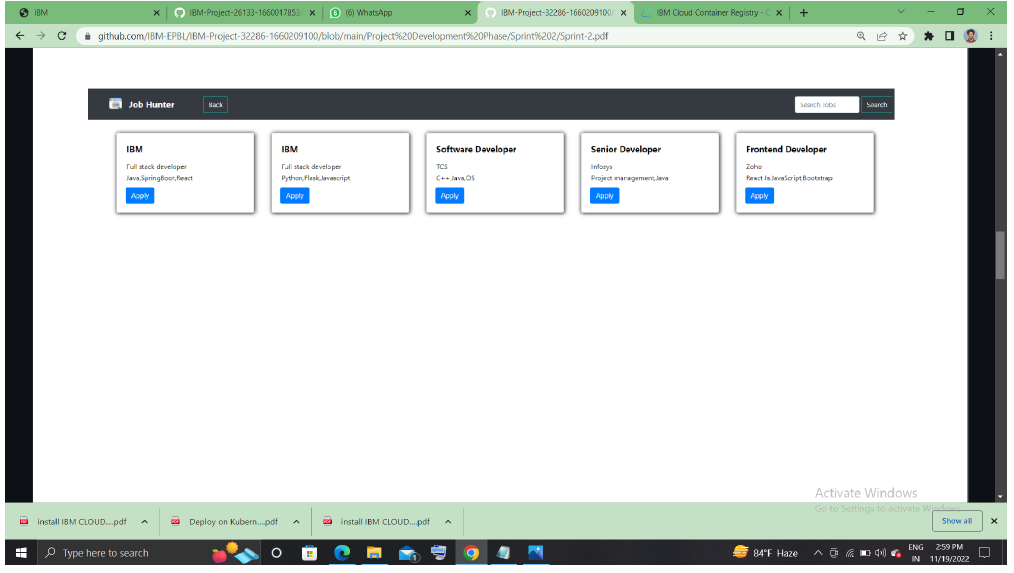
</body>

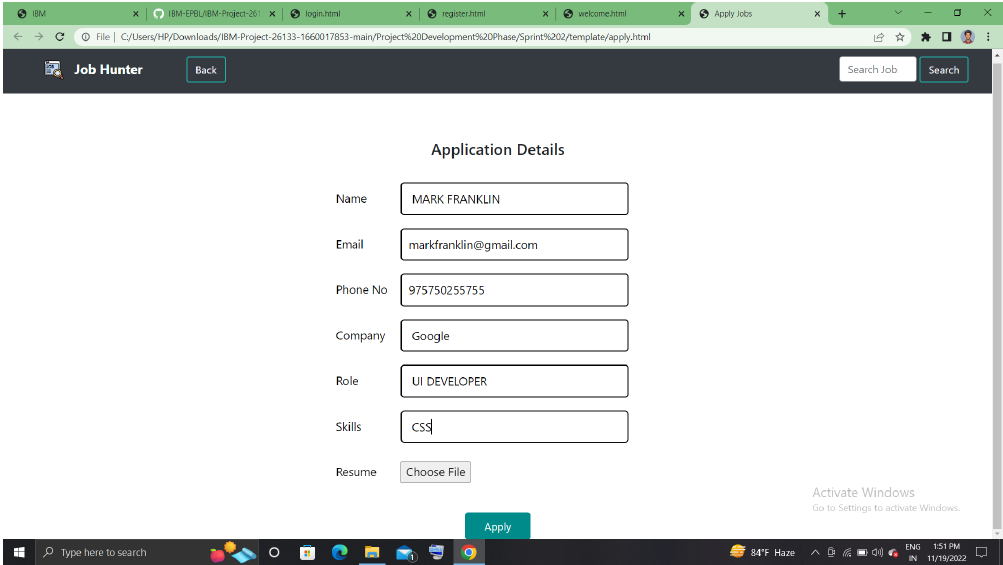
**FINAL PROJECT**

****

****







**Github Link: https://github.com/IBM-EPBL/IBM-Project-53204-1661318403**