DATE	18 November 2022
Team ID	PNT2022TMID36379
Project Name	Project- skill and job Recommender
Team Leader Team Members	Rakshitha.C Pavithra.S Sowmiya.R Balaji.K

Project Report Format

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PROJECT REPORT

1 INTRODUCTION

1.1 Project Overview

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 chatbot and can get the recommendations based on theirskills. We can use a job searchAPI to get the currentjob openingsin the market which will fetch the datadirectly from the webpage.

1.2 Purpose

The main aim of the projectis to building a modelwith a skill recommender solutionthrough whichthe fresher or the skilled person can log in and find the jobs by using the search option or they can directlyinteract with the chatbot and get their dream job.

2 LITERATURE SURVEY

2.1 Existing problem

Skill -based recommendation services platforms wants to turn into a leading source of the job recommender platform. The job and skill recommender system is expected to reduce unemployment and improve the skills of job seekers to boost the country's economy. Job recommender is giving guidancefor job seekers to get quick contactfor those jobs. Immediate announcement of the latestjob

openings, and walk-in interviews with different locations and offers you full detailsof recruitment such as the number of job vacancies, eligibility criteria, interview date, required

2.2 References

[1] Job Recommendation System Using Profile Matching And Web-Crawling Deepali V Musale , Mamta K Nagpure, Kaumudini S Patil , Rukhsar F Sayyed4 Students, Computer Science & Engineering, K K Wagh College of Engineering, Nashik, India

[2] Sequence Recommendations Jie Xu, Member, IEEE, Tianwei Xing, Student Member, IEEE, and Mihaela van der Schaar, Fellow, IEEE.

[3] Job recommendation Jorge Valverde-Rebaza Ricardo Puma Paul Bustios Nathalia C. Silva Department of Scienti_c Research, Visibilia, CEP 13560-647, S~ao Carlos, SP, Brazil fjvalverr, rpuma, pbustios, ncsilvag@visibilia.net.br

[4] yi-chi chou and han-yen yu. based on the application of ai technology in resume analysis and job recommendation. in 2020 ieee international conference on computational electromagnetics (iccem), pages 291–296. ieee, 2020
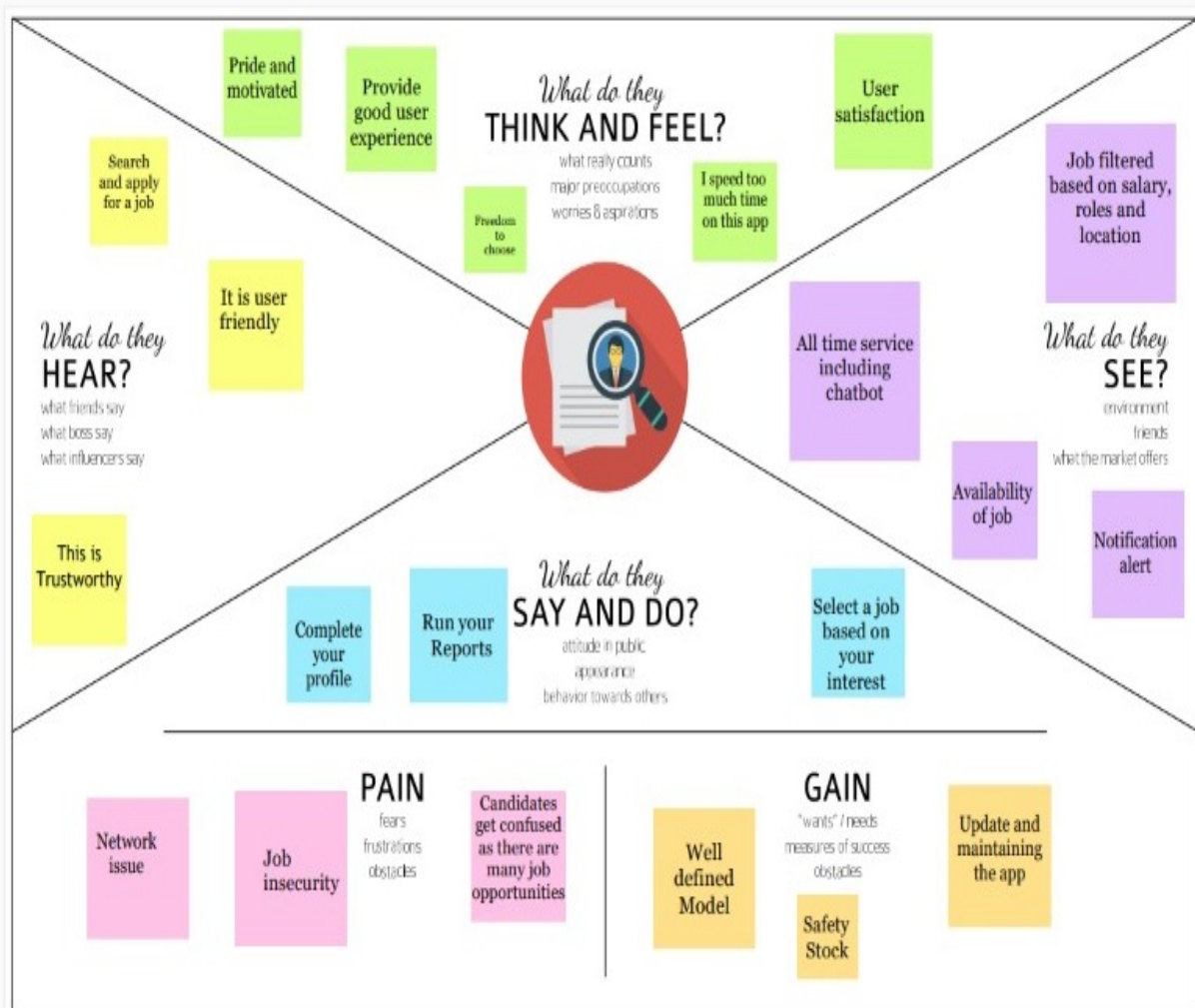
2.3 Problem Statement Definition

Filtering features are available in recruitment systems to assist recruiters. You can post jobs at any time, from anywhere, if you have access. reduced hiring costs. addressing the issue of cold starts for new employees and prospects. showing a respectful and upbeat attitude. Mentorship and positive corporate cultures are prevalent.
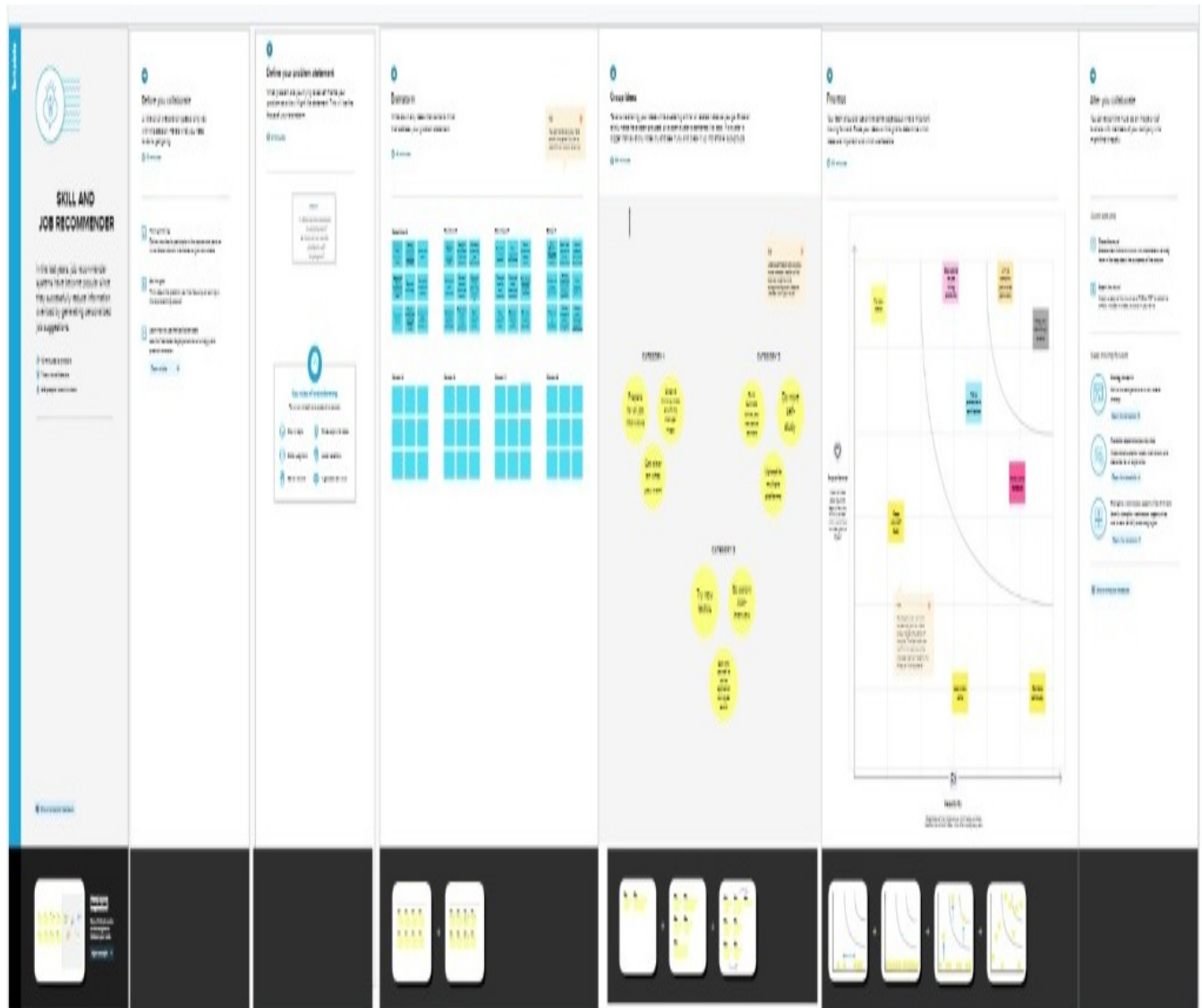
3 IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas

Empathy Map Skill/Job Recommender Application:

3.2 Ideation &Brainstorming

3.3 Proposed Solution

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Nowadays a lot of students have great skills but unable to get a desired/appropriate job, so an end-to-end web application can be created which is capable of displaying current job openings based on user skillset making it easier to hire and get hired.
2.	Idea / Solution description	To develop an end-to-end web application which in default have a lot of current job openings through job search API out of which appropriate job will be recommended based on user skill set. In addition to this a smart chat bot will be available for 24*7 which can help users in finding the right job.
3.	Novelty / Uniqueness	Though we have a lot of job searching applications, this one is unique because, • We have a smart chat bot built with IBM Watson. • Add media files to your profile to showcase your achievements • It is made responsive to all screen sizes • Here you can save/bookmark jobs for later use and also turn on notification for company specific job alerts
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 Solution fit

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why?

Project Title: Skill/job Recommender Application	Project Design Phase-I - Solution Fit Template	Team ID: PNT2022TMID36379

Define CS, fit into	**1. CUSTOMER SEGMENT(S)** `CS` Who is your customer? 1. Recruiters who select candidates. 2. Person searching for job in accordance with their skills.	**6. CUSTOMER** `CC` What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices. 1. Choosing right candidate on right time. 2. Time Consumption. 3. Potential scam 4. Competition between candidates. 5. Inadequate product knowledge.	**5. AVAILABLE SOLUTIONS** `AS` Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking 1. Getting employed by being updated. 2. Developing skills required for the role. 3. Skill set prediction.	**Explore AS,**
Focus on J&P, tap into BE, understand	**2. JOBS-TO-BE-DONE / PROBLEMS** `J&P` Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides. 1. Recruitment system have tools for profile filtering. 2. Job updation at anytime and anywhere.	**9. PROBLEM ROOT CAUSE** `RC` What is the real reason that this problem exists? What is the back story behind the need to do this job? i.e. customers have to do it because of the change in regulations. 1. Problems and queries arise from candidate side, consultant side and also from employers side. 2. To get clear view about the job profile of the candidate, HR policies and estimated budget.	**7. BEHAVIOUR** `BE` What does your customer do to address the problem and get the job done? i.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace) 1. When users apply for fraudulent jobs, they get unhappy due to wasted time. 2. Cheating in recruitment process	**Focus on J&P, tap into BE, understand**
Identify strong TR & EM	**3. TRIGGERS** `TR` What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news. 1. Herd mentality. 2. Retaliate. **4. EMOTIONS: BEFORE / AFTER** `EM` How do customers feel when they face a problem or a job and afterwards? i.e. lost, insecure > confident, in control - use it in your communication strategy & design. Anxiety, stress, fear, negativity / motivation, updation, relief and trust.	**10. YOUR SOLUTION** `SL` If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality. If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour. To develop an end-to-end web application which in default have a lot current job openings through API.	**8. CHANNELS of BEHAVIOUR** `CH` 8.1 ONLINE What kind of actions do customers take online? 1. No complete interaction with people. 2. Query is not solved completely. 8.2 OFFLINE What kind of actions do customers take offline? 1. Solving query completely. 2. Checking out companies infrastructure and location.	**Extract online & offline CH of BE**

4. REQUIREMENT ANALYSIS

4.1 Functional requirements

| S No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
1	User Registration	Registration with username and user password
2	User Confirmation	Confirmation of user Email/phone number Confirmation via OTP
3	Chat Bot	A Chat Bot will be there in website to solve user queries and problems related to applying a job, search for a job and much more.
4	Job profile display	Display job profiles based on skills ,availability etc
5	User Search	Exploration of Jobs based on job filters and skill recommendations.
6	Job registration	A copy of the company the user applied for with its registration details will be sent to registered email id
7	User Acceptance	Confirmation of the Job.

4.2 Non Functional Requirement

S No.	Non-Functional Requirement	Description

1	**Usability**	This application can be used by the job seekers to login and searchfor the job based on her Skills set.
2	**Security**	This application is secure with separate login for JobSeekers as well as Job Recruiters.
3	**Reliability**	This application is open-source and feels free to use, without need to pay anything. To make sure the webpage doesn'tgo down due to network traffic
4	**Performance**	The performance of this application is quickerresponse and takes lesser time to do any process.
5	**Availability**	This webpagewill be available to all users at anygiven point
6	**Scalability**	The Response time of the application is quite fastercompared to any other application.

5. PROJECT DESIGN

5.1 Data Flow Diagrams
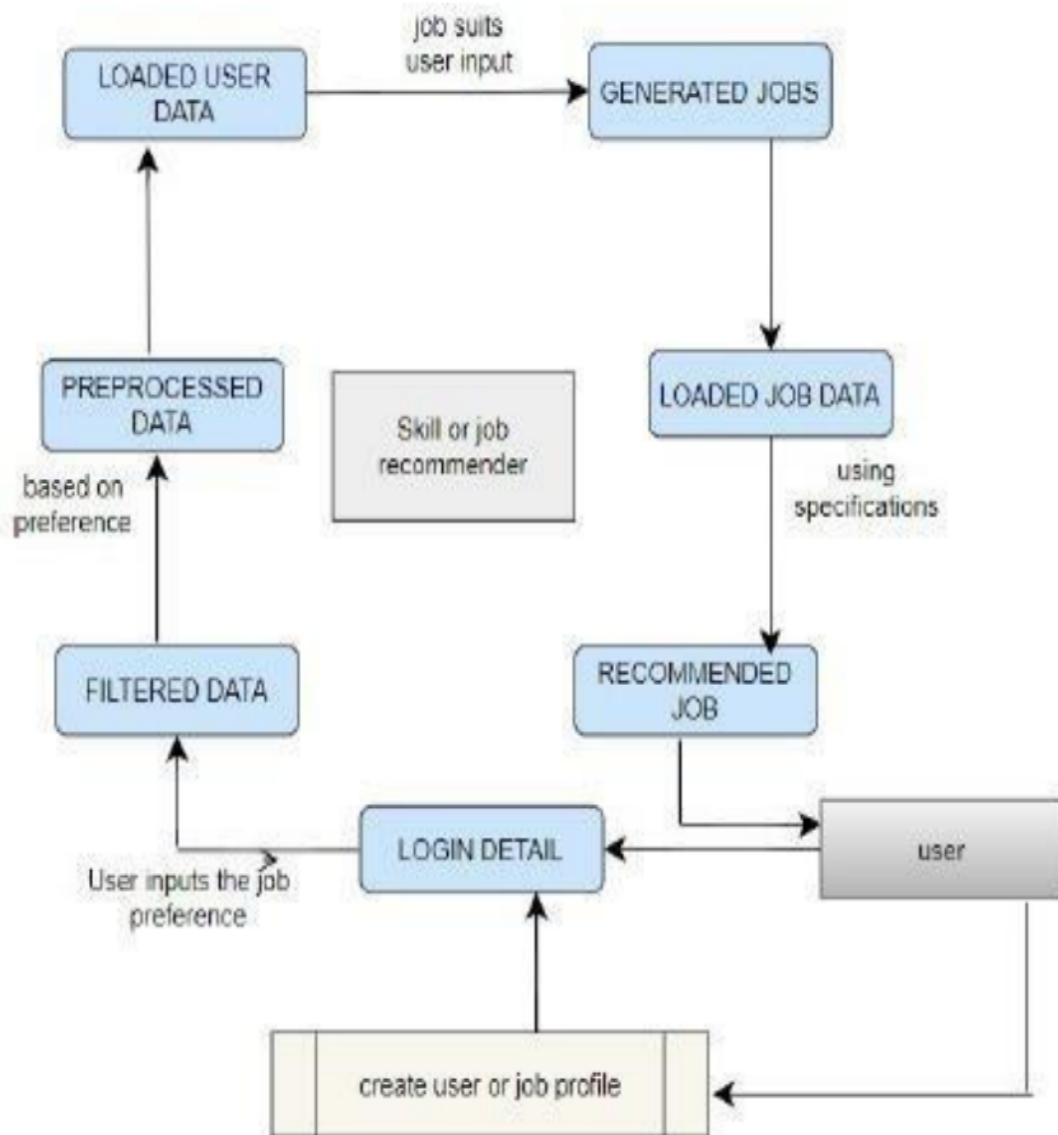
5.2 Solutions & Technical Architecture
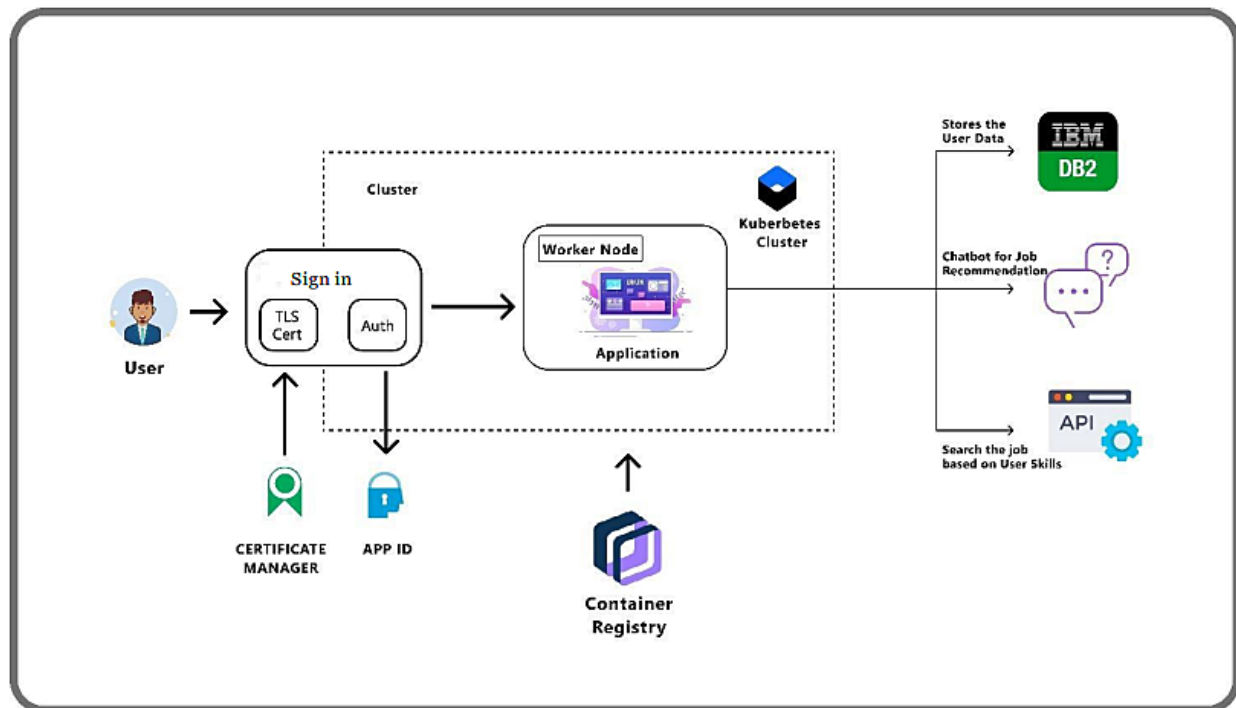
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. WebUI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js /React Js etc.
2.	Developing Interface	Developing application for the task	Java / Python
3.	Voice Assistance	Voice commands instead of typing.	IBM Watson STT service
4.	Chatbot Assistance	Conversational Interface	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other StorageService or Local Filesystem
8.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.

Table-2: Application Characteristics

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Artificial Intelligence (AI)
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	RAID(redundant array of independent disks)

5.3 User Stories

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
		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
		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 G mail	I can receive confirmation email & click confirm	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can access my account / dashboard	High	Sprint-1
	Dashboard	USN-6	Create a model set that contains those models, then assign it to a role.	Assign that group to the appropriate roles on the Roles page	High	Sprint-1

Customer (Web user)	Identity-Aware	USN-7	Open, public access, User-authenticated access, Employee-restricted access.	Company public website. App running on the company intranet. App with access to customer private information.	High	Sprint-1
Customer Care Executive	Communication	USN-8	A customer care executive is a professional responsible for communicating the how's and why's regarding service expectations within a company.	For how to tackle customer queries.	Medium	Sprint-1
Administrator	Device management	USN-9	You can Delete/Disable/Enable devices in Azure Active Directory but you cannot Add/Remove Users in the directory.	Ease of use.	Medium	Sprint-1

6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Scheduling

Sprint	Total Story Points	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	30 Oct 2022	04 Nov 2022	20	04 Nov 2022
Sprint-2	20	6 Days	04 Nov 2022	09 Nov 2022	18	09 Nov 2022
Sprint-3	20	6 Days	09 Nov 2022	14 Nov 2022	20	14 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	19	19 Nov 2022

6.2 Sprints Design Schedule

Sprint	Functional Requirement(Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Members
Sprint-1	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	Rakshitha C, Pavithra S, Sowmiya R, Balaji K
Sprint-1		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	Rakshitha C, Pavithra S, Sowmiya R, Balaji K
Sprint-2		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Rakshitha C, Pavithra S
Sprint-3		USN-4	As a user, I can register for the application through Gmail	I can receive confirmation email & click confirm	Medium	Rakshitha C, Sowmiya R,
Sprint-2	Login	USN-5	As a user, I can log into the application by entering email & password	I can access my account / dashboard	High	Rakshitha C, Pavithra S, Sowmiya R, Balaji K
Sprint-2	Dashboard	USN-6	Create a model set that contains those models, then assign it to a role.	Assign that group to the appropriate roles on the Roles page	High	Rakshitha C, Pavithra S, Sowmiya R, Balaji K
Sprint-4	Identity-Aware	USN-7	Open, public access, User-authenticated access, Employee-restricted access.	Company public website. App running on the company intranet. App with access to customer private information.	High	Rakshitha C, Pavithra S, Sowmiya R, Balaji K

6.3 Reports from JIRA

Roadmap
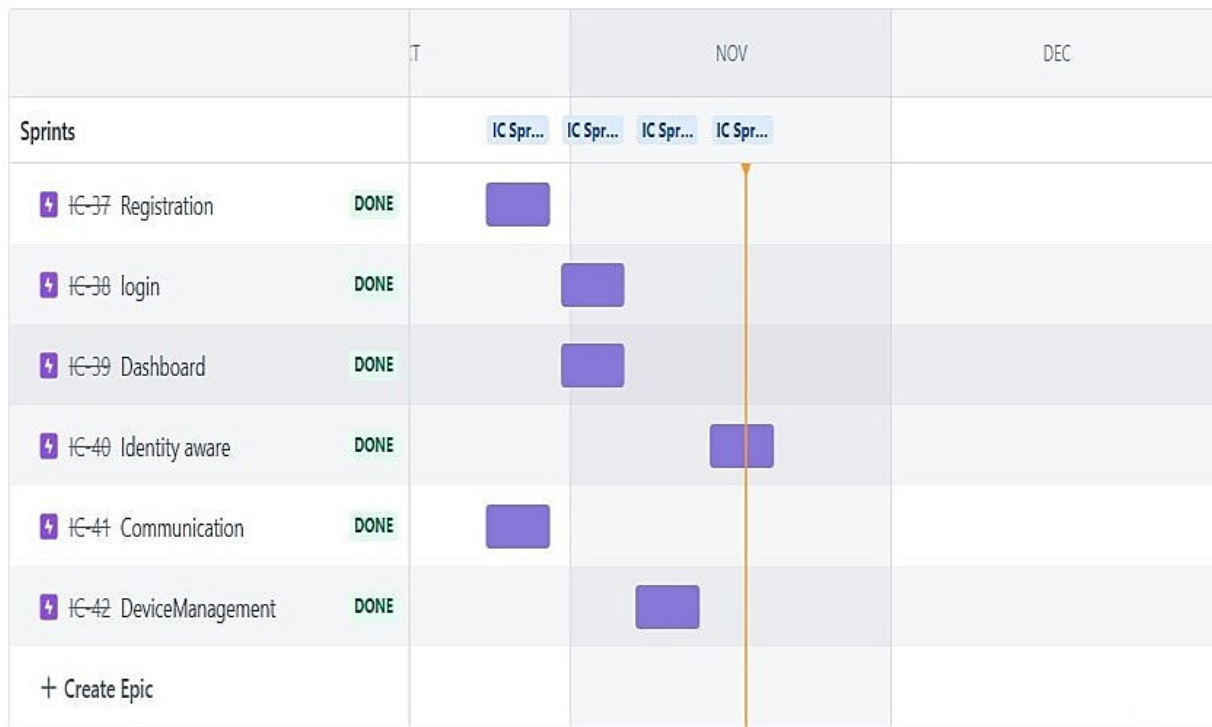
Board

IC Sprint 1 24 Oct – 29 Oct (3 issues)

- ~~IC-22~~ As a user, I can register for the application by entering my email, password, and confirming my password.
- ~~IC-23~~ As a user, I will receive confirmation email once I have registered for the application.
- ~~IC-24~~ A customer care executive is a professional responsible for communicating the how's and why's regarding service expectations within a co...

+ Create issue

IC Sprint 2 31 Oct – 5 Nov (3 issues)

- ~~IC-25~~ As a user, I can register for the application through Facebook.
- ~~IC-26~~ As a user, I can log into the application by entering email & password.
- ~~IC-27~~ Create a model set that contains those models, then assign it to a role.

Backlogs

TO DO	IN PROGRESS	DONE 9 ISSUES ✓
		IC-34 ✓ SS
		You can Delete/Disable/Enable devices in Azure Active Directory but you cannot Add/Remove users in the directory. IC-35 ✓ S
		Open, public access, user-authentication access, employee-restricted access. IC-36 ✓ SP

7. CODING AND SOLUTIONING

Feature 1:
App Market This is one of the feature of our application Skill Pal which provides companies job details for end users

```html
<!-- Job Detail Start -->
    <div class="container-xxl py-5 wow fadeInUp" data-wow-delay="0.1s">
        <div class="container">
            <div class="row gy-5 gx-4">
                <div class="col-lg-8">
                    <div class="d-flex align-items-center mb-5">
                        <img class="flex-shrink-0 img-fluid border rounded"
src="static/img/com-logo-2.jpg" alt="" style="width: 80px; height: 80px;">
                        <div class="text-start ps-4">
                            <h3 class="mb-3">Marketing Manager</h3>
                            <span class="text-truncate me-3"><i class="fa fa-map-
marker-alt text-primary me-2"></i>New York, USA</span>
                            <span class="text-truncate me-3"><i class="far fa-clock text-
primary me-2"></i>Full Time</span>
                            <span class="text-truncate me-0"><i class="far fa-money-bill-
alt text-primary me-2"></i>$123 - $456</span>
                        </div>
                    </div>
                    <div class="mb-5">
                        <h4 class="mb-3">Job description</h4>


<p>Marketing managers play a crucial role in helping a business to promote and
sell its products to its customers. They can lead and influence the way a brand
```

looks and feels in the market and marketing manager duties can cover the entire spectrum of how a company communicates. Discover expert tips on how to succeed as a marketing manager and what it takes to progress your career in this fast-paced industry.</p>

<h4 class="mb-3">Responsibility</h4>

<p>Marketing Managers are responsible for developing, implementing and executing strategic marketing plans for an entire organization (or lines of business and brands within an organization) in order to attract potential customers and retain existing ones.</p>

<ul class="list-unstyled">

<i class="fa fa-angle-right text-primary me-2"></i>Demonstrable experience in marketing together with the potential and attitude required

<i class="fa fa-angle-right text-primary me-2"></i>Solid knowledge of website analytics tools

<i class="fa fa-angle-right text-primary me-2"></i>Experience in setting up and optimizing Google Adwords campaigns

<i class="fa fa-angle-right text-primary me-2"></i>comfortable working with numbers

<i class="fa fa-angle-right text-primary me-2"></i>A sense of aesthetics and a love for great copy and witty communication

<h4 class="mb-3">Qualifications</h4>

<ul class="list-unstyled">

<i class="fa fa-angle-right text-primary me2"></i>Demonstrable experience in marketing together with the potential and attitude required

<i class="fa fa-angle-right text-primary me-2"></i>Solid knowledge of website analytics tools

```html
                <li><i class="fa fa-angle-right text-primary me-
2"></i>Experience in setting up and optimizing Google Adwords campaigns</li>
                <li><i class="fa fa-angle-right text-primary me-2"></i>
comfortable working with numbers</li>
                <li><i class="fa fa-angle-right text-primary me-2"></i>A
sense of aesthetics and a love for great copy and witty communication</li>
            </ul>
        </div>
    <div class="">
            <h4 class="mb-4">Apply For The Job</h4>


<form>
            <div class="row g-3">
                <div class="col-12 col-sm-6">
                    <input type="text" class="form-control"
placeholder="Your Name">
                </div>
                <div class="col-12 col-sm-6">
                    <input type="email" class="form-control"
placeholder="Your Email">
                </div>
                <div class="col-12 col-sm-6">
                    <input type="text" class="form-control"
placeholder="Portfolio Website">
                </div>
                <div class="col-12 col-sm-6">
                    <input type="file" class="form-control bg-white">
```

```html
                    </div>
                    <div class="col-12">
                        <textarea class="form-control" rows="5" placeholder="Coverletter"></textarea>
                    </div>
                    <div class="col-12">
                        <button class="btn btn-primary w-100" type="submit">Apply Now</button>
                    </div>
                </div>
            </form>
        </div>
    </div>
    <div class="col-lg-4">
        <div class="bg-light rounded p-5 mb-4 wow slideInUp" data-wow-delay="0.1s">
            <h4 class="mb-4">Job Summery</h4>
            <p><i class="fa fa-angle-right text-primary me-2"></i>Published On: 01 Jan, 2045</p>
            <p><i class="fa fa-angle-right text-primary me-2"></i>Vacancy: 123 Position</p>
            <p><i class="fa fa-angle-right text-primary me-2"></i>Job Nature: Full Time</p>
            <p><i class="fa fa-angle-right text-primary me-2"></i>Salary: $123 - $456</p>
            <p><i class="fa fa-angle-right text-primary me-2"></i>Location: New York, USA</p>
```

```
                    <p class="m-0"><i class="fa fa-angle-right text-primary me-
2"></i>Date Line: 01 Jan, 2045</p>
                </div>
                <div class="bg-light rounded p-5 wow slideInUp" data-wow-
delay="0.1s">
                    <h4 class="mb-4">Company Detail</h4>
                    <p class="m-0">Ipsum dolor ipsum accusam stet et et diam
dolores, sed rebum sadipscing elitr vero dolores. Lorem dolore elitr justo et no
gubergren sadipscing, ipsum et takimata aliquyam et rebum est ipsum lorem diam.
Et lorem magna eirmod est et et sanctus et, kasd clita labore.</p>
                </div>
            </div>
        </div>
    </div>
</div>
<!-- Job Detail End -->
```

Feature 2:
ChatBot (using IBM Watson)
This chat bot feature provides help tooltip for end users if any help needed for users

```
<script>
  window.watsonAssistantChatOptions = {
    integrationID: "1b609f1c-9212-46da-89f4-f0702a4ecc1f", // The ID of this
integration.
    region: "au-syd", // The region your integration is hosted in.
    serviceInstanceID: "df269af8-f13f-4dd2-b0c3-0fdd1264a714", // 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>
```

8. TESTING

8.1 Test Cases
We tested for various validations. Tested all the features with using all the functionalities.
Tested the data base storage and retrieval feature too. Testing was done in phase 1 and phase
2, where issues found in phase1 were fixed and then tested again in phase 2.

8.2 User Acceptance Testing:
Real world testing was also done, by giving to remote users and asking them to use the
application. Their difficulties were fixed and tested again until all the issues were fixed

1.DefectAnalysis

This reportshows the numberof resolved or closed bugs at each severity
level, and howthey were resolved

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	10	4	2	3	20
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	11	2	4	20	37
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won't Fix	0	5	2	1	8
Totals	24	14	13	26	77

2.Test Case Analysis

This report shows the numberof test casesthat have passed,failed, and untested

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	2	0	0	2
Client Application	2	0	0	2
Security	1	0	0	1
Outsource Shipping	1	0	0	1
Exception Reporting	2	0	0	2
Final ReportOutput	1	0	0	1
Version Control	1	0	0	1

9.1 PERFORMANCE METRICS

Signup

Name
sunita

Email
sunita15@gmail.com

Password
••••

sign up

Hunt the job

We Help To Get The Best Job And Find A Talent

Get the job that satisfy your needs and your soul

✓ Get Started

✓ Get Notified

✓ Get Selected

Read More

Job Listing

Featured   Full Time   Part Time

Software Engineer
📍 New York, USA   🕐 Full Time   💵 $123 - $456

♡   **Apply Now**

📅 Date Line: 01 Jan, 2045

Marketing Manager
📍 New York, USA   🕐 Full Time   💵 $123 - $456

♡   **Apply Now**

📅 Date Line: 01 Jan, 2045

Product Designer
📍 New York, USA   🕐 Full Time   💵 $123 - $456

♡   **Apply Now**

📅 Date Line: 01 Jan, 2045

FUZION   📍 New York, USA   🕐 Full Time   💵 $123 - $456

📅 Date Line: 01 Jan, 2045

Wordpress Developer
📍 New York, USA   🕐 Full Time   💵 $123 - $456

♡   **Apply Now**

📅 Date Line: 01 Jan, 2045

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› Contact Us	› Contact Us	📞 +012 345 67890	
› Our Services	› Our Services	✉ info@example.com	Your email **SignUp**

Job Detail

Marketing Manager

📍 New York, USA   🕐 Full Time   💵 $123 - $456

Job Summery

> Published On: 01 Jan, 2045

Marketing Manager

📍 New York, USA   🕐 Full Time   💵 $123 - $456

Job description

Marketing managers play a crucial role in helping a business to promote and sell its products to its customers. They can lead and influence the way a brand looks and feels in the market and marketing manager duties can cover the entire spectrum of how a company communicates. Discover expert tips on how to succeed as a marketing manager and what it takes to progress your career in this fast-paced industry.

Responsibility

Marketing Managers are responsible for developing, implementing and executing strategic marketing plans for an entire organization (or lines of business and brands within an organization) in order to attract potential customers and retain existing ones.

> Demonstrable experience in marketing together with the potential and attitude required
> Solid knowledge of website analytics tools
> Experience in setting up and optimizing Google Adwords campaigns
> comfortable working with numbers
> A sense of aesthetics and a love for great copy and witty communication

Qualifications

> Demonstrable experience in marketing together with the potential and attitude required
> Solid knowledge of website analytics tools
> Experience in setting up and optimizing Google Adwords campaigns
> comfortable working with numbers

Job Summery

> Published On: 01 Jan, 2045
> Vacancy: 123 Position
> Job Nature: Full Time
> Salary: $123 - $456
> Location: New York, USA
> Date Line: 01 Jan, 2045

Company Detail

While the marketing department looks to Marketing Managers for guidance and direction, executives count on them for profitability and results. They generally work in corporate environments as part of a larger marketing, creative, communications or digital team. As part of an organization, they play a critical role in aligning creative

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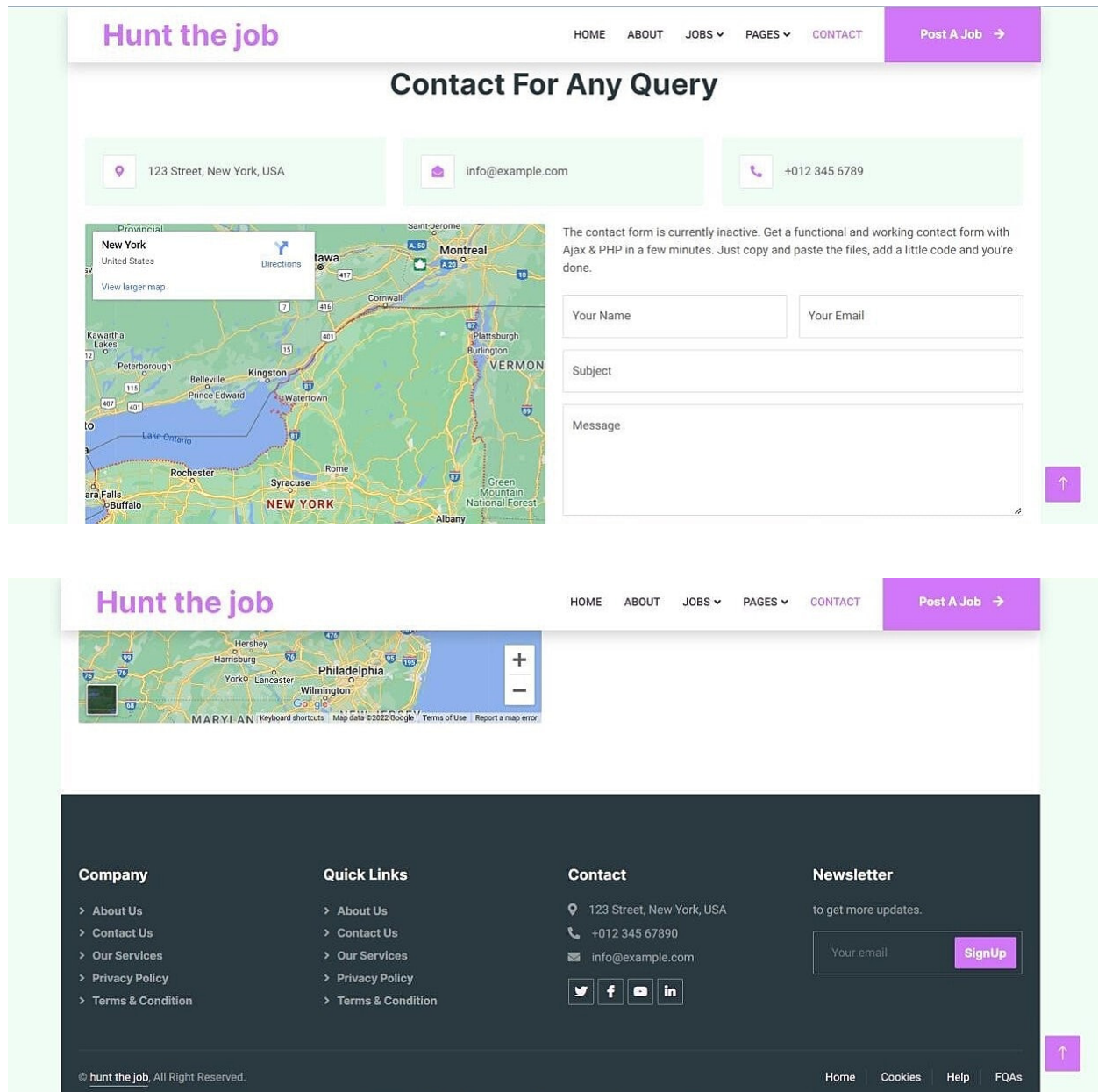123 Vacancy

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123 Vacancy

Design & Creative

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10. ADVANTAGES AND DISADVANTAGES

ADVANTAGES :

- It helps candidates to search the job which perfectly suites them and make themawareof all the job openings.

- It help recruiters of the company to choose the right candidates for their organisations with appropriate skills.

- Since it is cloud application , it does require any installation of softwares and isportable.

DISADVANTAGES:

- It is costly.

- Uninterrupted internetconnection is requiredfor smooth functioning of application.

11.CONCLUSION

we have used ibm cloud services like db2, cloud registry , kubernetes , Watson assistant to create this application , which will be very usefull for candidates whoare searching for job and as well as for the company to select the right candidate for their organization.

12.FUTURE SCOPE

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 torecommend data in a efficientway.

13.APPENDIX

Source code:

```
from flask import Flask, request, render_template, redirect, url_for
from cloudant.client import Cloudant
#from detect import my_database
client = Cloudant.iam('6c89a0da-d603-41e5-a40b-6af61327e9af-bluemix',
'CiLg1OOKnQVKb0S7KJT-rdxsDAvGezjZw1tOjV2tXuFX', connect =True)
my_database = client.create_database('my_database')

app = Flask(__name__)
@app.route('/')
def index():
    return render_template('home.html')
```

```python
@app.route('/home.html')
def home():
    return render_template("home.html")
@app.route('/signup')
def register():
    return render_template('signup.html')
@app.route('/after_signup', methods=['post'])
def after_reg():
    x = [x for x in request.form.values()]
    print(x)
    data = {
        '_id': x[1],
        'name': x[0],
        'psw': x[2],
    }
    print(data)
    query = {'_id': {'$eq': data['_id']}}
    docs = my_database.get_query_result(query)
    print(docs)
print(len(docs.all()))

    if len(docs.all()) == 0:
        url = my_database.create_document(data)
        # response = requests.get(url)
```

```python
        return render_template('index.html', pred="Registration Successful, please
login using your details")
    else:
        return render_template('index.html', pred="You are already a member, please
login using your details")
@app.route('/signin')
def login():
    return render_template('signin.htmL')

@app.route('/after_signin', methods=['POST'])
def after_login():
    user = request.form['_id']
    passe = request.form['psw']
    print(user, passe)
    query = {'_id': {'$eq': user}}
    docs = my_database.get_query_result(query)
    print(docs)


    print(len(docs.all()))


    if len(docs.all()) == 0:
        return render_template('signin.html', pred="The username is not found.")
    else:
        if user == docs[0][0]['_id'] and passe == docs[0][0]['psw']:
            return render_template('job-list.html')
        else:
            print('Invalid User')
```

```python
@app.route('/about1')
def about1():
    return render_template('about1.html')

@app.route('/job-detail')
def jobdetail():
    return render_template('job-detail.htmL')

@app.route('/about')
def about():
    return render_template('about.htmL')

@app.route('/category')
def category():
    return render_template('category.htmL')

@app.route('/contact')
def contact():
    return render_template('contact.htmL')

@app.route('/testimonial')
def testimonial():
    return render_template('testimonial.html')

@app.route('/404')
```

```python
def error():
    return render_template('404.html')

if __name__ == "__main__":
    app.run(debug=True)
```

GitHub & Project Demo Link:

https://github.com/IBM-EPBL/IBM-Project-16617-1659618991

Vedio link:

https://youtu.be/j_qpPXH1OY4