SKILLS AND JOB RECOMMENDER

IBM - NALAIYA THIRAN PROJECT

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1. INTRODUCTION

1.1 Project Overview

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 a fresher or a skilled person can login and find jobs by using the search option or they can directly interact with the chatbot and get their dream job.

1.2 Purpose

To develop an end to end web application capable of displaying the current job openings based on the skillset of the users. The user’ s credentials and their information are stored in the Database. Whenever there is an job opening based on the user's skillset, it is recommended to the user. The user will interact with the chatbot and can get recommendations based on their skills. Users can use the job search API of the web application to get the current job openings in the market which will fetch the data directly from the webpage.

2. LITERATURE SURVEY

2.1 Exixting Problem

Existing system is not very efficient, it does not benefit the user in maximum way, so the proposed system uses IBM cloud services like db2, Watson virtual assistant , cluster , Kubernetes and docker for containerization of the application. They tend to miss out on these postings because there is an ocean of existing systems that list millions of jobs which are generally not relevant at all to the users. There is an abundance of choices and not much streamlining. On the basis of the actual skills or interests of an individual, job seekers often find themselves unable to find the appropriate employment for themselves. This system, therefore,

approaches the idea from a data point of view, emphasizing more on the quality of the data than the quantity

2.2 References

[1] R. J. Mooney and L. Roy, "Content-Based Book Recommending Using Learning for Text Categorization," in
In Proceedings of DL ’ 00: Proceedings of the Fifth ACM Conference on Digital Libraries, New York, NY, pp. 13-20,
2000

[2] Li-Ping Jing, Hou-Kuan Huang, Hong-Bo Shi, “ Improved feature selection approach TFIDF in text mining” ,International Conference on Machine Learning and Cybernetics, pp. 944-946, 2002, doi:10.1109/icmlc.2002.1174522.

[3] Shouning Qu ,Sujuan Wang,Yan Zou, ” Improvement of Text Feature Selection Method Based on TFIDF” ,
International Seminar on Future Information Technology and Management Engineering, pp. 79-81, 2008,
doi:10.1109/fitme.2008.25.

[4] I. A. Braga, "Evaluation of stopwords removal on the statistical approach for automatic term extraction,"

Seventh Brazilian Symposium in Information and Human Language Technology, pp. 142-149, 2009.

L. Zahrotun, “ Comparison jaccard similarity, cosine similarity and combined both of the data clustering with
shared nearest neighbor method,” Computer Engineering and Applications Journal. vol. 5. Pp. 11-18, 2016,
doi:10.18495/comengapp.v5i1.160, 2016.
[8] Peng Yi, Cheng Yang ,Chen Li, Yingya Zhang, “ A Job Recommendation Method Optimized by Position
Descriptions and Resume Information” , IEEE Advanced Information Management, Communicates, Electronic and
Automation Control Conference (IMCEC), pp. 762 -764, March 2017,
doi:10.1109/rteict.2017.8256590.
[9] Minh-Luan Tran, Anh-Tuyen Nguyen, Quoc-Dung Nguyen, Tin Huynh, “ A comparison study for job recommendation” ,Inter Conference on Information and Communications (ICIC), pp. 199-204,
2017, doi:10.1109/infoc.2017.8001667.

2.3 Problem Statement Definition

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 chatbot and get their dream job.

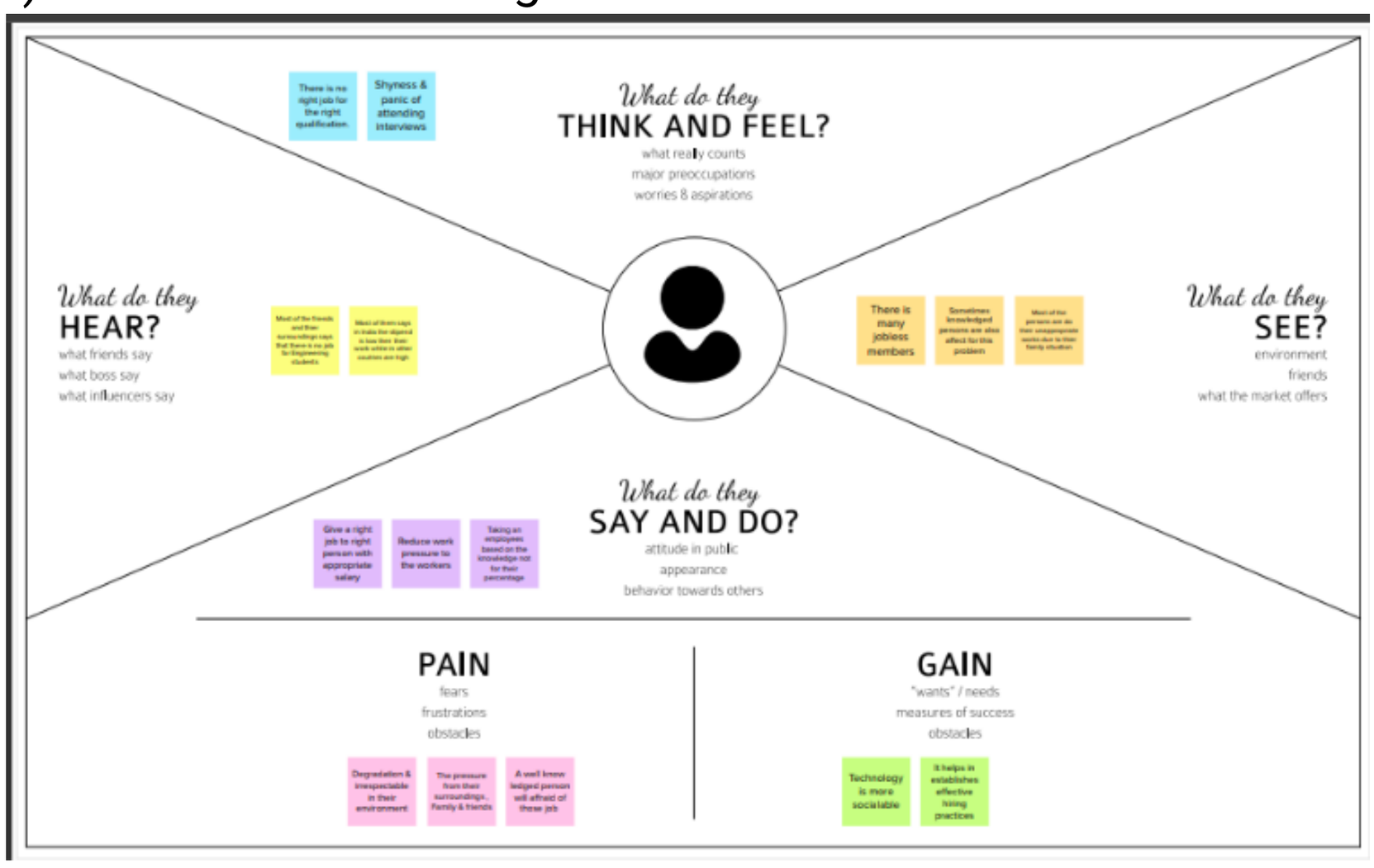
To develop an end-to-end web application capable of displaying the current job openings based on the user skillset. The user and their information are stored in the Database. An alert is sent when there is an opening based on the user skillset. Users will interact with the chatbot and can get the recommendations 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 fromthe webpage.

3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas

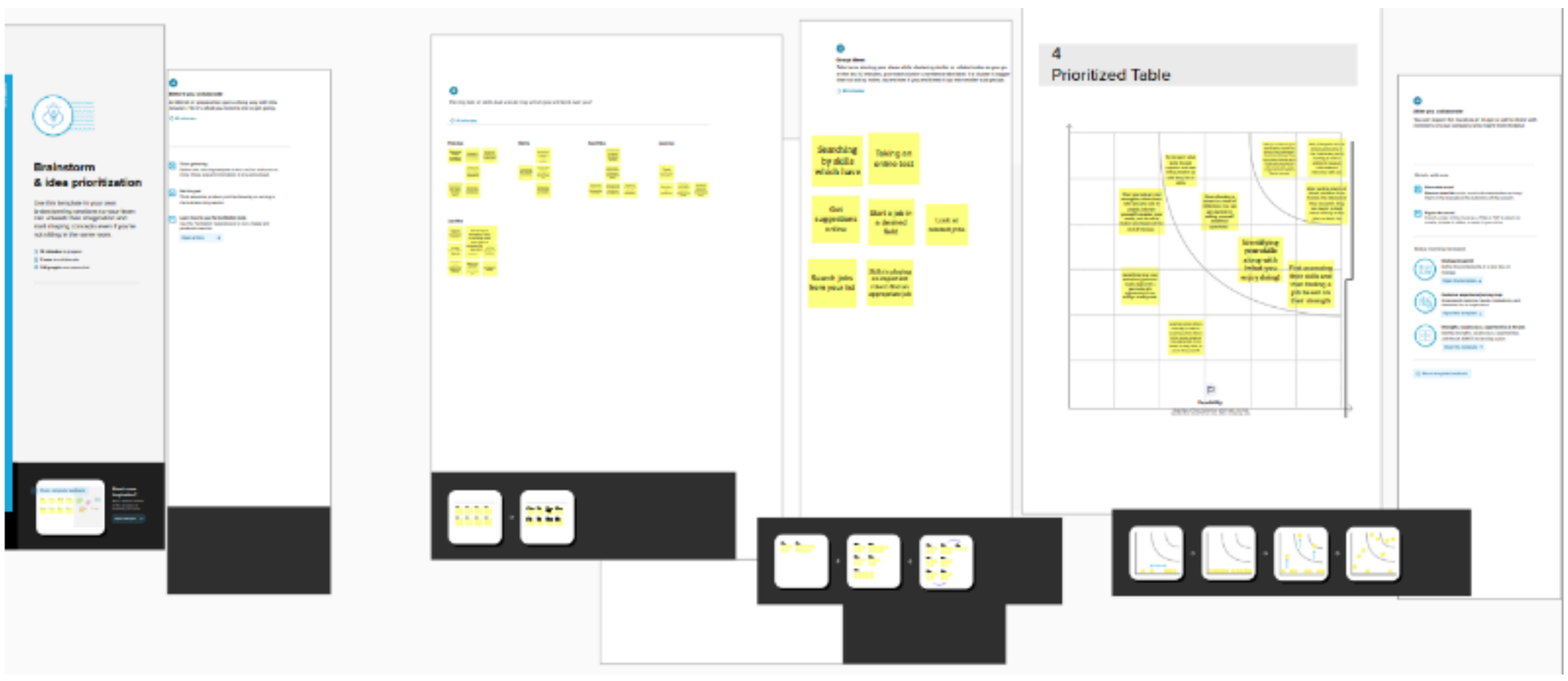
An empathy map is a collaborative visualization used to articulate what we know about a particular type of user. It externalizes knowledge about users in order to

1) create a shared understanding of user needs, and
2) aid in decision making



3.2 Ideation & Brainstorming

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions. Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room



3.3 Proposed Solution

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

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 issues.

Here we provide a website which provides the user recommendations of jobs and skills that they need to built for their career. It recommends the employee, graduate, unemployed and freshers the companies that are hiring. The

final year students can be recommend with the skills and companies that are hiring the final years. The web application recommends the users the job that best suits them based on the information they provide like, field of interest, previous experience current position. The users have their individual profiles .

The users can chat with chatbot for any queries. The chat both helps the users for their queries

We have come up with a skill and job 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 chatbot and get their dream job.The system provides the initial recommendation to the job seeker and records his behaviour.Thus, we will be ableto arrive at a set of jobs in which the job seeker is interested and a set of jobs in which he is not interested. The extended new basic features help in updating the job seeker’ s profile.The job applicant is provided with new recommendations. Similarly, the same recommendation system helps provide job applicant recommendations to the job recruiters to find the most eligible candidates for their firm. Training programmes and certification courses are also recommended to job seekers based on their job interests to grow their skill.

3.4 Problem Solution Fit

Define CS, fit into CL

1. CUSTOMER SEGMENT(S) CS

Job Seekers.

6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES CL

Need to provide right skillsets and bios.

5. AVAILABLE SOLUTIONS PROS & CONS AS

On the job recommendation system
it can also available for providing
an solution location based services.

Explore AS, differentiate

Focus on PR, tap into BE, understand RC

2. PROBLEMS / PAINS + ITS FREQUENCY PR

There could be more than one,
explore different sides.
Having lots of skills but wondering
which job will best suit you?

9. PROBLEM ROOT / CAUSE RC

Decision fatigue on choosing
the right job based upon their skillsets.

7. BEHAVIOR + ITS INTENSITY BE

Directly: They attend face-face interviews
and more.
Indirectly: They can choosing by online services.

Focus on PR, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS TO ACT TR

Having an trouble in decision making.
That which job will suitable
for a right qualification.

4. EMOTIONS BEFORE / AFTER EM

Before:
Anxiety about future,
struggling in decision making
for the right job.
After:
Picking right job by the Recommender.

10. YOUR SOLUTION SL

Creating an Attractive
end-to-end web application capable of
displaying the current job openings
based on the user skillset.

8. CHANNELS of BEHAVIOR CH

ONLINE

Using auto recommender web application
to get the job.

OFFLINE

Using web application offline services
to get right job.

Extract online & offline CH of BE

4. REQUIREMENT ANALYSIS

4.1 Functional Requirement

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN Registration through Facebook
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP Confirmation via Gmail Confirmation via Verification
FR-3	Employee Searches	Employee can update their profile/Edit their profile/update at anytime. Employee can upload their resume on the site for getting an job which suits to their skills.
FR-4	Recommender	Recommender can analyse the skills of the user and provide an appropriate job to them. Recommender can find the suitable job by means of their skills they provide.
FR-5	Administrators	Administrators can manage all of those databases of the users and can update the company about their user skills and user profile.
FR-6	User Accessibility	User can access the job location company details and their profile by the accessibility sources.

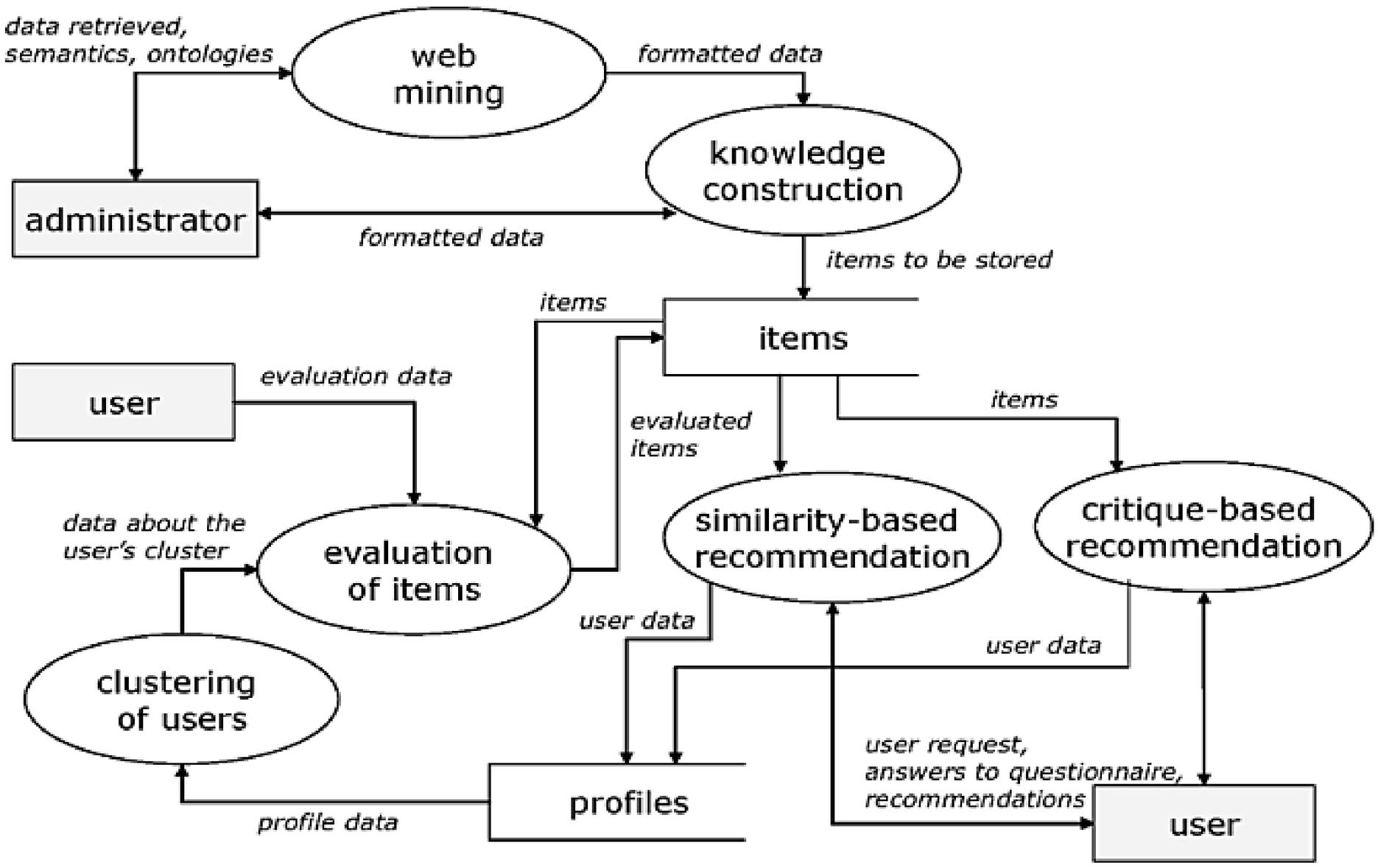
4.2 Non Functional Requirements

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Usability is a measure of how well a specific user in a specific context can use a product/design to achieve a defined goal effectively, efficiently.
NFR-2	**Security**	Security is provided to safeguarding high-value mobile applications and your digital identity from fraudulent attack in all its forms.
NFR-3	**Reliability**	Application reliability is the probability of a piece of software operating without failure while in a specified environment over a set duration of time is given in the application.
NFR-4	**Performance**	It aims to build predictable performance into systems by specifying and analysing quantitative behaviour from the very beginning of a system, through to its deployment and evolution.
NFR-5	**Availability**	It is always available for both Administrators and users to provide an efficient application.
NFR-6	**Scalability**	It is scalable while user can only access those scalable criteria's and not to access the company personal categories.

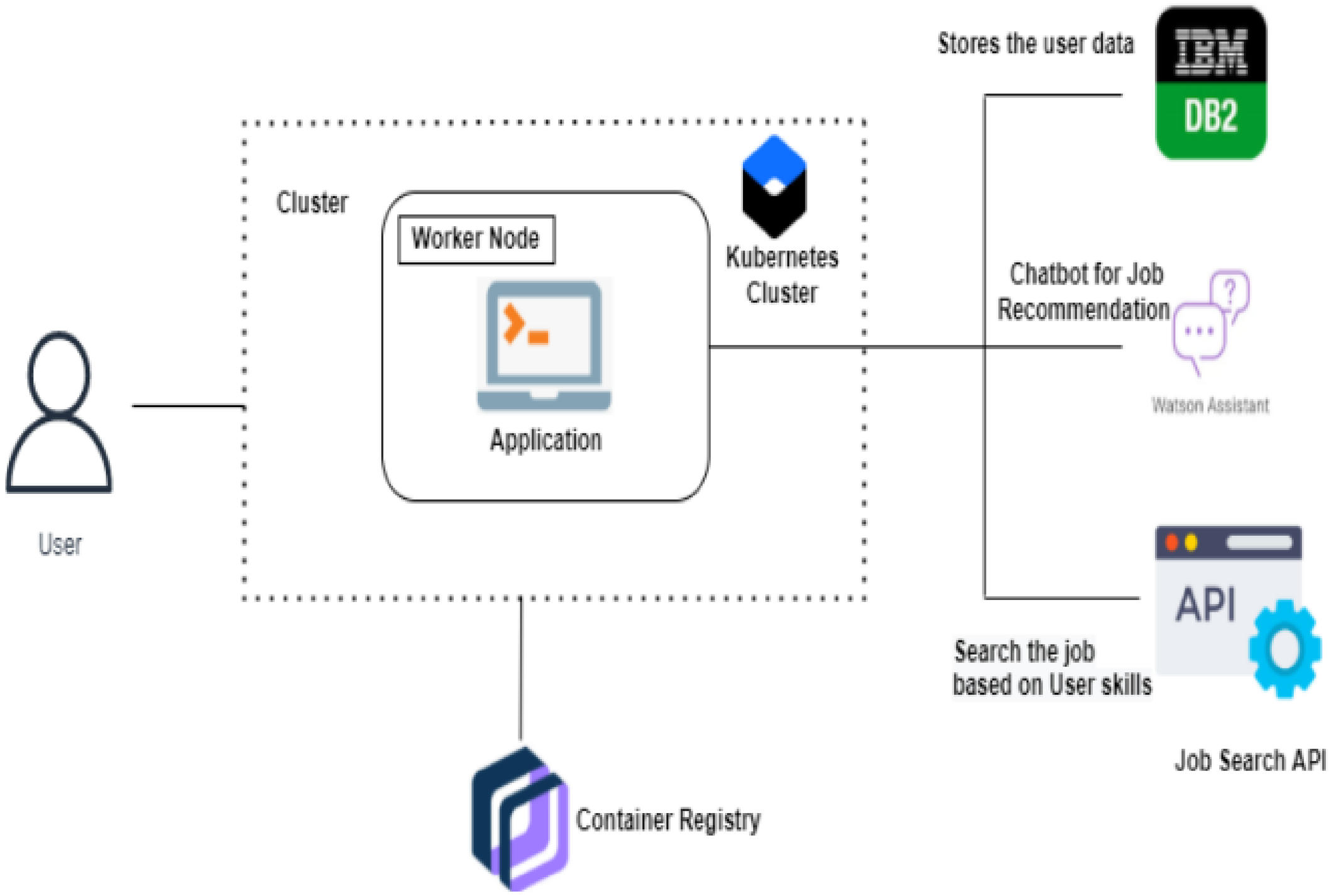
5. PROJECT DESIGN

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 retrieved,
semantics, ontologies
web
mining
formatted data
knowledge
construction
administrator
formatted data
items to be stored
items
items
evaluation data
user
evaluated
items
items
data about the
user's cluster
evaluation
of items
similarity-based
recommendation
critique-based
recommendation
user data
user data
clustering
of users
user request,
answers to questionnaire,
recommendations
profiles
profile data
user

5.2 Solution & Technical Architecture



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
Employee	Conform	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
Un employee	Register	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
Business officer	Apply	USN-4	As a user, I can register for the application through Gmail	I can register for the application	Medium	Sprint-1
Part time job employee	Login	USN-5	As a user, I can log into the application by entering email & password	I can login int the application	High	Sprint-1
College Students	Dashboard	USN-6	As a user, I can go to Dashboard and update my profile for job employment	I can go to Dashboard and update	Low	Sprint-1
Customer (Web user)	Analyzer/Recommender	USN-7	As a Customer Web User the analyser/Recommender can searches suitable job and recommends for user.	Analysing the correct job for my skills	High	Sprint-2
Customer Care Executive	Recommendation	USN-8	As a Customer Care Executive it is easy to suggest the appropriate job for the user.	Suggestion taking process for the skill	Medium	Sprint-1
Administrator	Manage	USN-9	As a Administrator I can manage all the recommendation system and data of the user.	Managing the database and users	High	Sprint-2
Recruiters	Search	USN-10	As a Recruiters, I can search the suitable job for my skills.	Searching the skill oriented job	Low	Sprint-1

6.PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

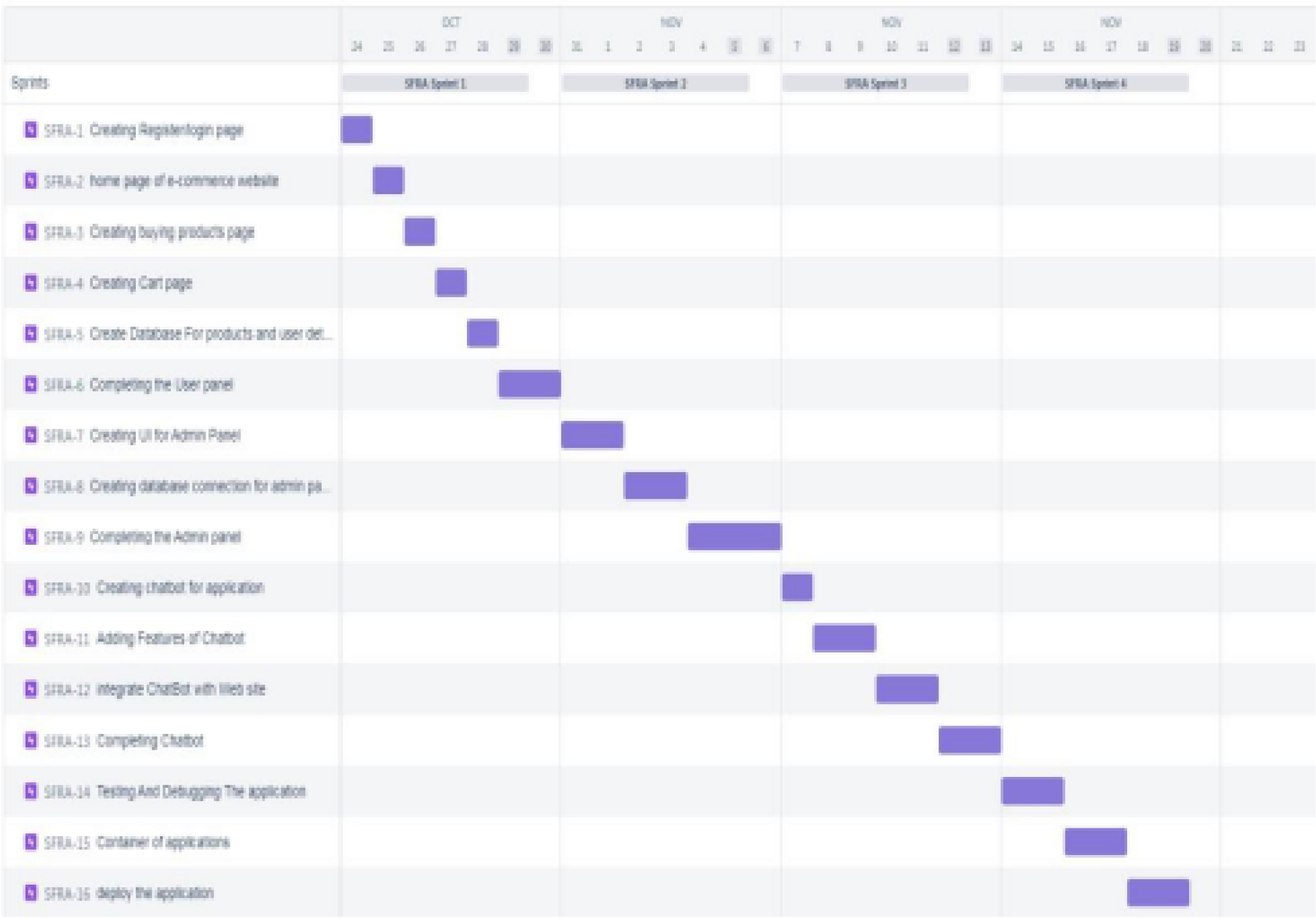
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	5
Sprint-1	Confirms	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	3
Sprint-2	Register	USN-3	As a user, I can register for the application through Facebook	2	Low	2
Sprint-1	Apply	USN-4	As a user, I can register for the application through Gmail	2	Medium	4
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	5
Sprint-2	Dashboard	USN-6	As a user, I can go to Dashboard and update my profile for job employment	1	Low	4
Sprint-1	Analyse/Recommender	USN-7	As a Customer Web User the analyser/Recommender can searches suitable job and recommends for user.	2	High	3
Sprint-2	Recommendation	USN-8	As a Customer Care Executive it is easy to suggest the appropriate job for the user	2	High	2

6.2 Sprint Delivery Schedule

Sprint planning is an event in scrum that kicks off the sprint. The purpose of sprint planning is to define what can be delivered in the sprint and how that work will be achieved. Sprint planning is done in collaboration with the whole scrum team.

SPRINT	TASK	MEMBERS
SPRINT 1	Create registration page, login page, job search portal, job apply portal in flask.	Prakalya Nalina Keerthika Lavanya Jeevitha
SPRINT 2	Connect application to ibm db2	Nalina Lavanya Keerthika Prakaya
SPRINT 3	Integrate ibm Watson Assistant	Nalina Lavanya Jeevitha
SPRINT 4	Containerize the app and Deploy the application in ibm cloud	Keethika Prakalya Nalina

6.3 Reports From JIRA



7. CODING & SOLUTIONG

7.1 Feature 1

Home page.HTML

```
<html>
<head>
<title> SKILLS AND JOB RECOMMENDER </title>
</head>
<style>
*{
margin: 0;
padding: 0;
font-family: "Times New Roman", Times, serif;
}
.main{
width: 100%;
background: linear-gradient(to top,rgba(0,0,0,0.5),rgba(0,0,0,0.5)50%);
background-position: center ;
background-size: cover;
height: 100%;
font-family: "Times New Roman", Times, serif;
```

```
}
.navbar{
width: 100%;
height: 75px;
margin: auto;
}
.icon{
width: 200px;
float: left;
height: 70px;
}
.logo{
color:#FFFFFF;
font
-size: 35px;
padding
-left: 20px;
float: left;
padding
-top: 10px;
}
.menu{
width: 400px;
float: left;
height: 70px;
}
ul{
float: left;
display: flex;
justify
-content: center;
align
-items: center;
}
ul li{
```

```
list
-style: none;
margin
-left: 62px;
margin
-top: 27px;
font
-size: 15px;

}
ul li a{
text-decoration: none;
color: #FFFFFF;
font-weight: bold;
transition: 0.4s ease-in-out;
}
ul li a:hover{
color: rgb(98, 246, 152);
}
.search{
width: 330px;
float: left;
margin-left: 270px;
```

```
}
.srch{
width: 200px;
height: 40px;

background: transparent;
border: 1px solid rgb(98, 246, 152);
margin-top: 13px;
color: #FFFFFF;
border-right: none;
font-size: 16px;
float: left;
padding: 10px;
border-bottom-left-radius: 5px;
border-top-left-radius: 5px;
}
.btn{
width: 100px;
height: 40px;
background:rgb(98, 246, 152) ;
border: 2px solid rgb(98, 246, 152);
margin-top: 13px;
color: #FFFFFF;
font-size: 15px;
border-bottom-right-radius: 5px;
border-bottom-right-radius: 5px;
}
.btn:focus{
outline: none;
}
.srch:focus{
outline: none;
}
.content{
width: 1200px;
height: auto;
```

```
margin: auto;
color: #800080;
position: relative;
}
.content.par{

padding
-left: 20px;
padding
-bottom: 25px;
letter
-spacing: 1.2px;
line
-height: 30px;
}
.content h1{
font
-size: 50px;
padding
-left: 20px;
margin
-top: 9%;
letter
```

```
-spacing: 2px;
}
.content .cn{
width: 160px;
height: 40px;
background: rgb(98, 246, 152);
border: none;
margin
-bottom: 10px;
margin
-left: 20px;
font
-size: 18px;
border
-radius: 10px;
cursor: pointer;
transition: .4s ease;
}
.content .cn a{
text
-decoration: none;
color: #FBE7A1;
transition: .3s ease;
}
.cn:hover{
background-color: #FBE7A1;
}
.content span{
color:rgb(98, 246, 152);
font-size: 60px;
}
.form{
width: 250px;
height: 380px;
background: linear-gradient(to top,hsla(89, 43%, 51%, 0.3));
position: absolute;
```

```
top: -20px;
left: 870px;
border-radius: 10px;
padding: 25px;
}
.form h2{
width: 220px;
text-align: center;
color:rgb(98, 246, 152);
font-size: 22px;
border-radius: 10px;
margin: 2px;
padding: 8px;
}
.form input{
width: 240px;
height: 35px;
background: rgba(0, 255, 0, 0.5);
}
.form input{
width: 240px;
height: 35px;
background: rgba(0, 255, 0, 0.5);
```

```
border-bottom: 1px solid rgb(98, 246, 152);
border-top: none;
border-right: none;
border-left: none;
color: #fff;
font-size: 15px;
letter-spacing: 1px;
margin-top: 30px;
}
.form input:focus{
outline: none;
}
::placeholder{
color: #fff;
}
.btnn{
width: 240px;
height: 40px;

background: rgb(98, 246, 152);
border: none;
margin
-top: 30px;
font
-size: 18px;
border
-radius: 10px;
cursor: pointer;
color: #fff;
transition: 0.4s ease;
}
.btnn:hover{
background: #fff;
color: rgb(98, 246, 152);
}
.btnn a{
```

```
text
-decoration: none;
color: #000;
font
-weight: bold;
}
.form .link{
font
-size: 17px;
padding
-top: 20px;
text
-align: center;
}
.form .link a{
text
-decoration: none;
color: rgb(98, 246, 152);
}

.liw{
padding-top: 15px;
padding-bottom: 10px;
```

```
text-align: center;
}
</style>
<body>
<div class="main">
<div class="navbar">
<div class="icon">
<h2 class="logo">JOB RECOMMENDER</h2>
</div>
<div class="menu">
<ul>
<li><a href="#">HOME</a></li>
<li><a href="#">ABOUT</a></li>
</ul>
</div>
<div class="search">
<input class="srch" type="search" name="" placeholder="TYPE TO SEARCH">
<a href="#"><button class="btn">SEARCH</button></a>
</div>
<img
src="C:\Users\HP\Downloads\fashion-banner-people-cartoon-characters-flat[1]ve
ctor-illustration-isolated-fashion-banner-people-cartoon-characters-190292392.jp
g">
</div>
</div>
</body>
</html>
```

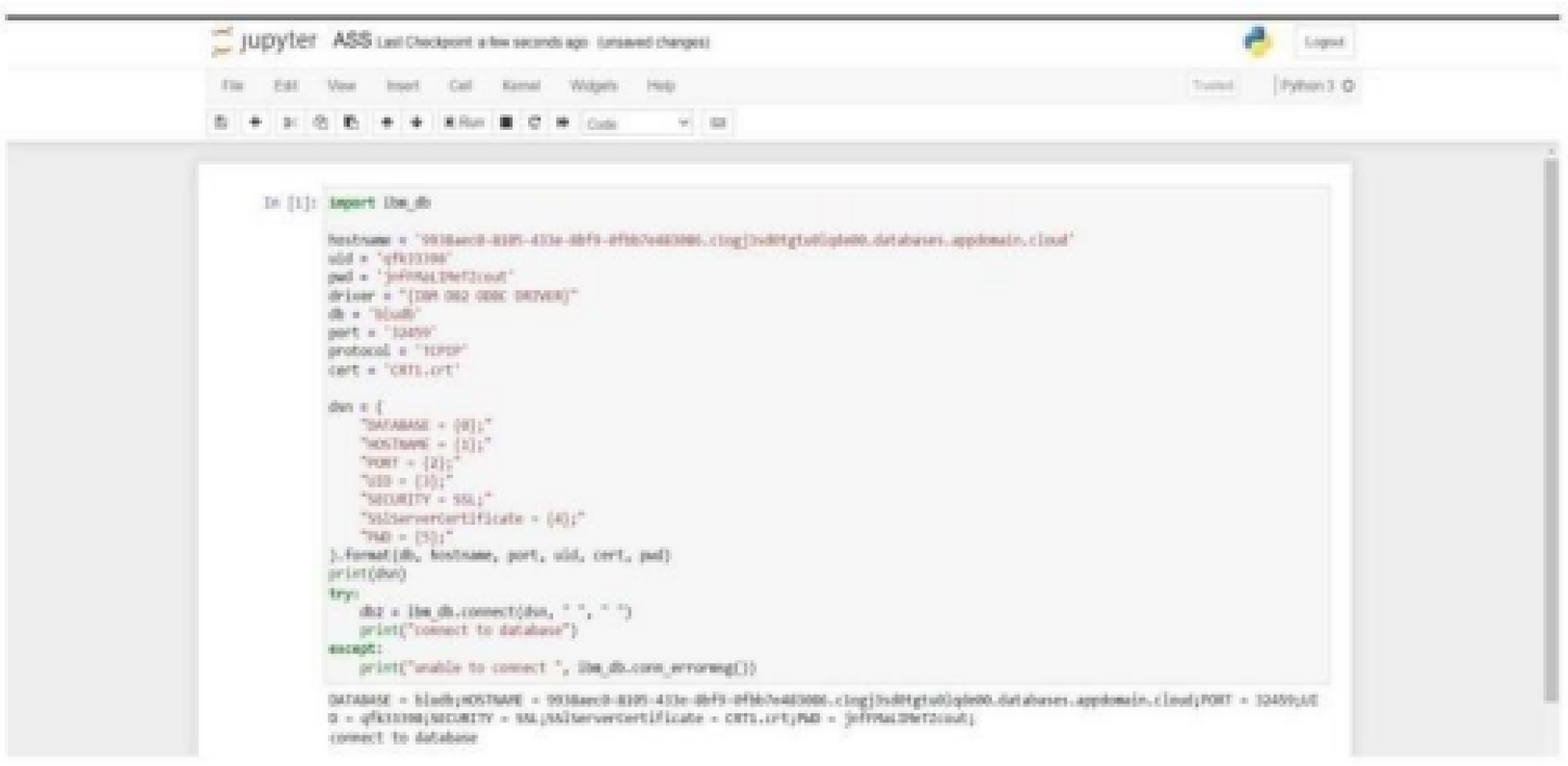
7.2 Feature 2

INTEGRATING CHATBOT WITH HTML PAGE (SOURCE CODE) :

```
<script> window.watsonAssistantChatOptions = { integrationID:
"400013cb-9586-4129-a4b6-
```

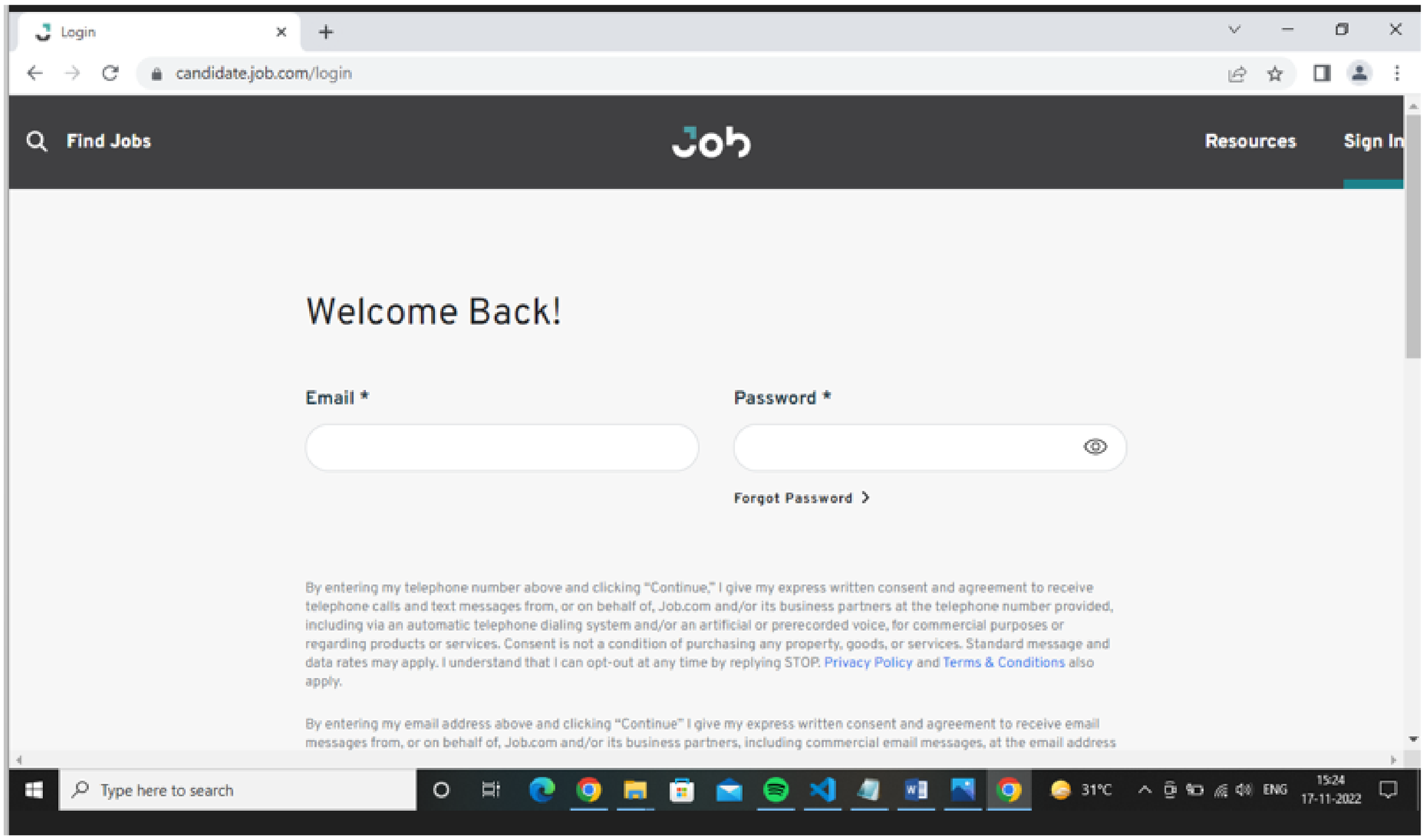
```
c11caad2df7e", // The ID of this integration. region: "jp-tok", // The region your integration is
hosted in. serviceInstanceID: "c3736947-abe7-48d9-ad2a-1064128a8039", // The ID of your
service instance.
onLoad: function(instance) { instance.render(); }
};
setTimeout(function(){ const
t=document.createElement('script');
t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
document.head.appendChild(t);
});
</script>
```

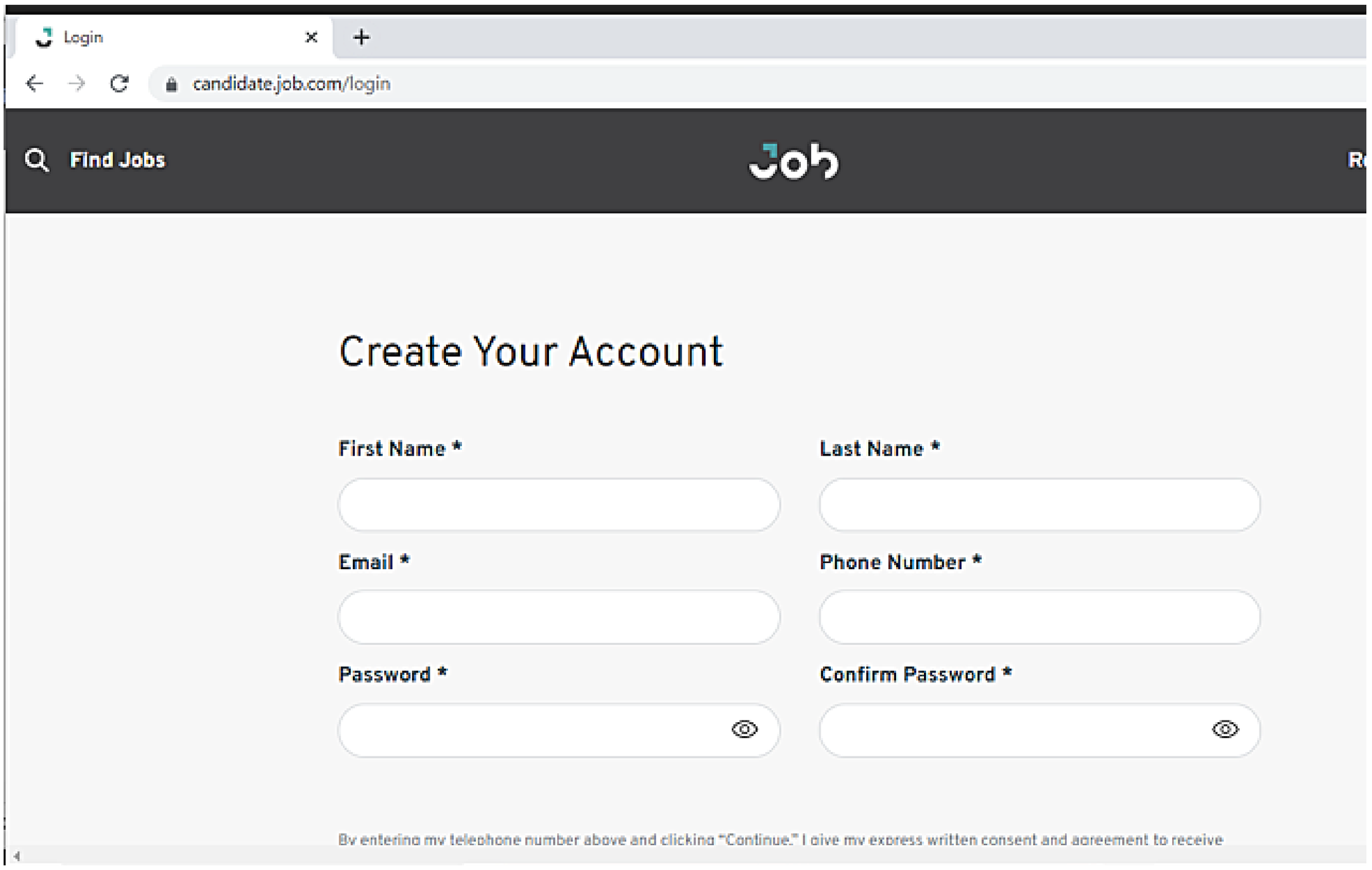
7.3 Database Schema

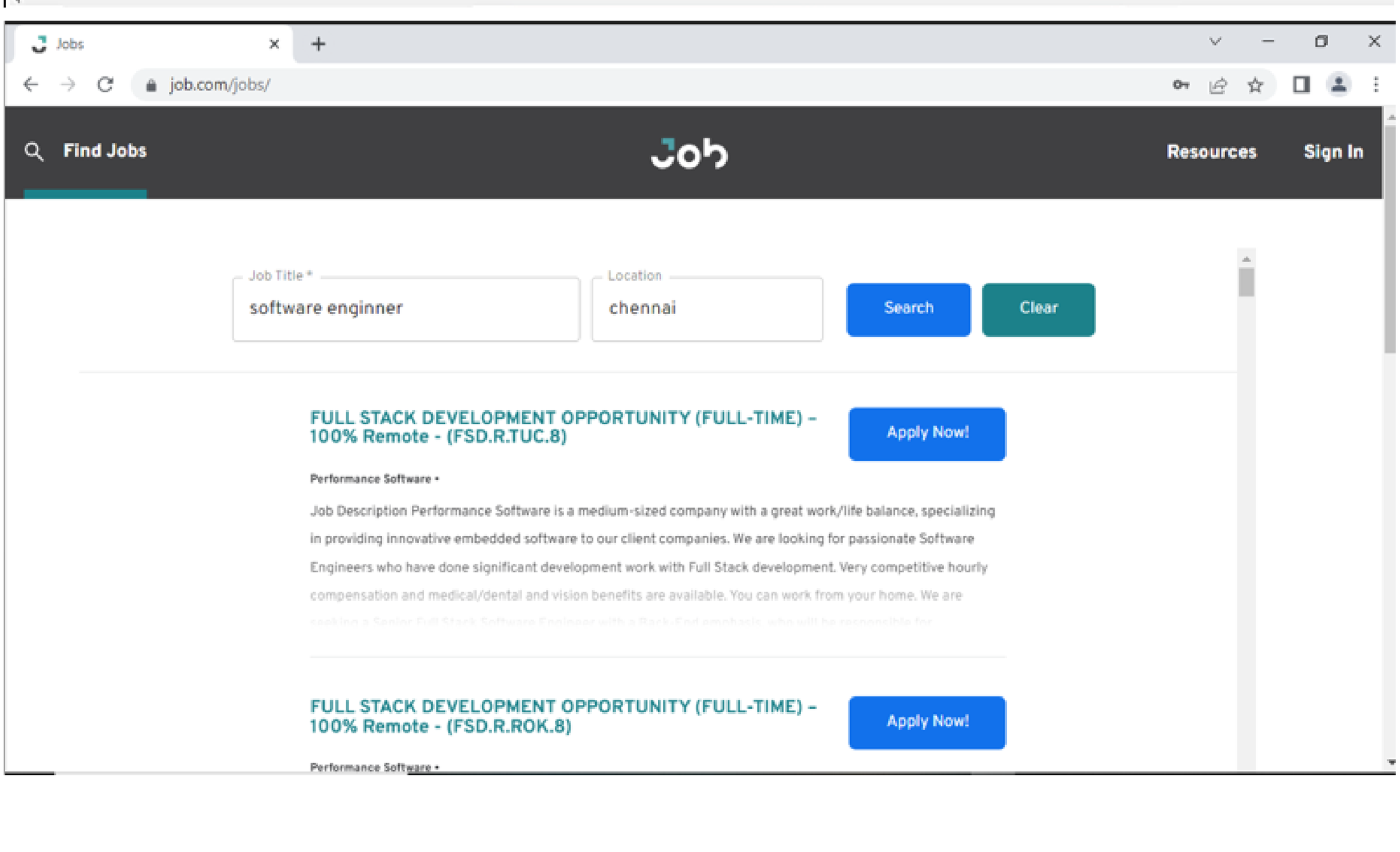


8. Testing

8.1 Test Cases




Login
candidate.job.com/login
Find Jobs
Job
Create Your Account
First Name *
Last Name *
Email *
Phone Number *
Password *
Confirm Password *
By entering my telephone number above and clicking "Continue," I give my express written consent and agreement to receive


Jobs
job.com/jobs/
Find Jobs
Job
Resources
Sign In
Job Title *
software enginner
Location
chennai
Search
Clear
FULL STACK DEVELOPMENT OPPORTUNITY (FULL-TIME) – 100% Remote - (FSD.R.TUC.8)
Apply Now!
Performance Software •
Job Description Performance Software is a medium-sized company with a great work/life balance, specializing in providing innovative embedded software to our client companies. We are looking for passionate Software Engineers who have done significant development work with Full Stack development. Very competitive hourly compensation and medical/dental and vision benefits are available. You can work from your home. We are
FULL STACK DEVELOPMENT OPPORTUNITY (FULL-TIME) – 100% Remote - (FSD.R.ROK.8)
Apply Now!
Performance Software •

8.2 User Accceptance Testing

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	14	8	4	2	28
Duplicate	2	1	4	0	7
External	3	2	1	1	7
Fixed	6	6	2	12	26
Not Reproduced	0	0	2	0	2
Skipped	0	0	5	2	7
Won't Fix	0	5	3	1	9
Totals	32	33	29	43	86

9. RESULTS

9.1 Performance Metrics

			NFT - Risk Assessment					
S.No	Project Name	Scope/feature	Functional Changes	Hardware Changes	Software Changes	Impact of Downtime	Load/Voluem Changes	
1	Skills and job Recomm	Existing	No Changes	No Changes	No Changes	No Downtime imapct seen..!	No Changes	GREEN

			NFT - Detailed Test Plan				
			S.No	Project Overview	NFT Test approach	umptions/Dependencies/R	Approvals/SignOff

			End Of Test Report					
S.No	Project Overview	NFT Test approach	NFR - Met	Test Outcome	GO/NO-GO decision	Recommendations	Identified Defects (Detected/Closed/Open)	

10. ADVANTAGE & DISADVANTAGE

Advantage:

- 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 is portable.
- It helps candidates to search the job which perfectly suites them and make them aware of all the job openings.
- Weed out a high number of unqualified candidates
- Easy to post jobs
- Data analytics to test interest in your job openings

Disadvantage :

- Privacy concerns.
- Too many choices.
- Cold-start problem.
- It is costly.
- Uninterrupted internet connection is required for smooth functioning of application

11. CONCLUSION

Job Recommendation System has a major role to play among recommending systems.

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

12. Future Scope

In this proposed work, there is only job recommendations and skill suggestion for jobs. It can be improved by suggesting jobs and skills for the Non - jobs. In the future, some can find a better choice to find similarity than acosine similarity. It makes the recommendation more accurate.

Future directions of our work will focus on performing a more exhaustive evaluation considering a greater amount of methods and data as wells as 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

```
<!DOCTYPE html>
<html lang="en">

<head>

<meta name="generator" content="Hugo 0.88.1" />

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<script async
src="https://www.googletagmanager.com/gtag/js?id=UA-113313579-7"></script
>

<script>

    (function(w, d, s, l, i) {

        w[l] = w[l] || [];

        w[l].push({
```

```
    'gtm.start': new Date().getTime(),
    event: 'gtm.js'
});
var f = d.getElementsByTagName(s)[0],
            j = d.createElement(s),
              dl = l != 'dataLayer' ? '&l=' + l : '';
          j.async = true;
          j.src =
              'https://www.googletagmanager.com/gtm.js?id=' + i + dl;
          f.parentNode.insertBefore(j, f);
        })(window, document, 'script', 'dataLayer', 'GTM-KJG467N');
</script>

<script>
        window.dataLayer = window.dataLayer || [];
```

```
function gtag() {
    dataLayer.push(arguments);
}
gtag('js', new Date());

        gtag('config', 'UA-113313579-7');
</script>
<title>Job.com: Your Job Search Starts Here.</title>



<link rel="canonical" href="https://job.com/">


<meta name="description" content="A Better Path to More Opportunity. We’ re a people-first technology solution for active job discovery and career opportunity matching that improves your connection with real recruiters looking for the next great candidate.">
 <meta name="apiUrl" content="https://aor-api.job.com/">
<meta data-name="palette" content="blue-gray">
<style>
        .open-menu-btn {
            cursor: pointer;
            height: 100%;
        }

        .fWhEBi {
```

```
    height: 100%;
}

.fWhEBi div {
    display: flex;
    -webkit-box-pack: center;
    justify-content: center;
    -webkit-box-align: center;
    align-items: center;
    height: inherit;
}

.fWhEBi svg {
    width: 19px;
    height: 19px;
    color: #fff;
}
```

```
.fWhEBi svg:hover {
    color: #8eacbb;
}

.articles-list::after,
.articles-list::before,
.section-main-article .main-article::after,
.section-main-article h1::after {
    background-repeat: no-repeat;
    background-size: cover;
}

.section-main-article h1::after {
    content: "";
    background-image: url(../../images/heading-after.png);
    position: absolute;
    top: -26px;
    left: -26px;
    max-width: 20px;
    width: 100%;
    height: 20px;
    min-height: 20px;
    max-height: 20px;
    width: 100%;
    margin-top: 17px;
```

```
        }
</style>
<ul class="css-1fegdn2-S_ul_nav_social_icons eufl5ki2">
<style data-emotion="css 13dueeo-S_li_nav_link">
                .css-13dueeo-S_li_nav_link {
font-size: 0.85rem;
position: relative;
display: -webkit-box;
display: -webkit-flex;
display: -ms-flexbox;
display: flex;
-webkit-align-items: center;
-webkit-box-align: center;
-ms-flex-align: center;
align-items: center;
-webkit-box-pack: center;
-ms-flex-pack: center;
```

```
    -webkit-justify-content: center;
    justify-content: center;
    min-width: 48px;
    min-height: 48px;
}

.css-13dueeo-S_li_nav_link:hover svg {
    fill: rgb(37, 113, 234);
}

.css-13dueeo-S_li_nav_link:last-of-type a {
    padding-right: 0;
}
</style>
<li class="css-13dueeo-S_li_nav_link eufl5ki1">
<style data-emotion="css 1hupo3l-S_a_link">
                .css-1hupo3l-S_a_link {
                    min-width: 48px;
                    min-height: 48px;
                    display: -webkit-box;
                    display: -webkit-flex;
                    display: -ms-flexbox;
                    display: flex;
                    -webkit-align-items: center;
                    -webkit-box-align: center;
                    -ms-flex-align: center;
```

```
    align-items: center;
    -webkit-box-pack: center;
    -ms-flex-pack: center;
    -webkit-justify-content: center;
    justify-content: center;
  }

  @media (min-width: 896px) {
    .css-1hupo3l-S_a_link {
      padding-right: 22px;
    }
  }
}
</style>
<a aria-label="Instagram" href="https://www.instagram.com/jobdotcom/"
target="_blank" rel="noopener noreferrer nofollow" data-hook="social-link"
class="css-1hupo3l-S_a_link eufl5ki0">
<style data-emotion="css 181xxus-S_svg_icon">
```

```
.css-181xxus-S_svg_icon {
    height: 1rem;
    width: 1rem;
    -webkit-transition: fill 0.3s;
    transition: fill 0.3s;
    fill: #202124;
}

@media (min-width: 768px) {
    .css-181xxus-S_svg_icon {
        height: 19px;
        width: 33.7px;
    }
}

@media (min-width: 1092px) {
    .css-181xxus-S_svg_icon {
        -webkit-transition: fill 0.3s;
        transition: fill 0.3s;
        fill: #202124;
    }
}
</style>
<svg class="css-181xxus-S_svg_icon e15l4raf0" data-hook="icon" viewbox="0 0 15 15" aria-hidden="true" aria-label="Instagram Icon">
```

m" target="_blank" rel="noopener noreferrer nofollow" data-hook="social-link" class="css-1hupo3l-S_a_link eufl5ki0"><svg class="css-181xxus-S_svg_icon e15l4raf0" data-hook="icon" viewbox="0 0 15 15" aria-hidden="true" aria-label="Twitter Icon">

<</svg>

<path
d="M5.7,5H3.8v2.5h1.8v7.4h3V7.5h2.2L11.2,5H8.7V4c0-0.6,0.1-0.8,0.6-0.8h1.8v-3H8.9c-2.2,0-3.2,1-3.2,2.9V5z">

</path>

</path>

</svg>

</footer>

```
</footer>

<span id="btnScrollToTop" class="btn-scroll-to-top"></span>

<script type="text/javascript" id="">
    (function() {
        var b = window.XMLHttpRequest.prototype.send;
        window.XMLHttpRequest.prototype.send = function() {
            var a = this,
                c = window.setInterval(function() {
                    4 == a.readyState && (dataLayer.push({
                        event: "ajaxSuccess",
                        ajax: "AJAX",
                        ajaxurl: a.responseURL,
                        ajaxtext: a.responseText
                    }), clearInterval(c))
                }, 1);
            return b.apply(this, [].slice.call(arguments))
        }
    })();
</script>
<div style="display: none; visibility: hidden;">
<script>
        document.addEventListener("click", function() {
            dataLayer.push({
```

```
            event: "gtm.click",
            "click class new": event.target.className,
            "click id new": event.target.id,
            "click text new": event.target.textContent,
            "click url new": event.target.href,
                "click data new": event.target.dataset.hook,
                "click ": event.target.nodeName
            })
        });
</script>
</div>
</body>

</html>
```

Git Hub & Project Demo link :

GitHub Link : https://github.com/IBM-EPBL/IBM-Project-41785-1660644912

Demo Link : https://youtu.be/at3vjnvfq3s