



# **Skill / Job Recommender Application**

IBM-Project-39492-1660451436

#### PROJECT REPORT

#### **SUBMITTED BY**

**TEAM ID: PNT2022TMID33364** 

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In partial fulfilment for the award of the degree

Of

#### **BACHELOR OF ENGINEERING**

In

#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



V.S.B.ENGINEERING COLLEGE, KARUR

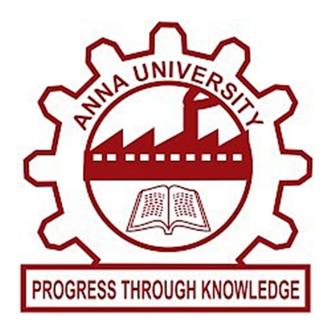






# V.S.B ENGINEERING COLLEGE, KARUR

(Approved by AICTE & Affiliated by Anna University, Chennai)



#### **BONAFIDE CERTIFICATE**

Certified that this mini project report titled "Skill / Job Recommender Application" is the bonafide record work by S.KRISHNAN(922519104084), K.RKISHOREDHARAN (922519104082), K.KARTHIK BALAJI (922519104067), P.KAVINISH(922519104070) for IBM-NALAIYATHIRAN in VII semester of B.E., degree course in Computer Science and Engineering branch during the academic year of 2022-2023

Staff-In Charge Manikandan.T Evalutor Gunasekaran P

Head of the Department Mr. Anbumani







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#### 1. INTRODUCTION

### 1.1 Project overview:

This Project view provides an overview of the skill and job recommended for individuals interested in a career in any fields. It discusses the important role that any field plays in businesses and the various skills that are necessary for success in this field. It also outlines the different job opportunities available in any field and the different types of companies that employ any field professionals.

### 1.2 Purpose:

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

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



#### 2. LITERATURE SURVEY

### 2.1 Existing problem:

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

#### 2.2 Reference:

Kurdija, A. S., Afric, P., Sikic, L., Plejic, B., Silic, M., Delac, G., ... & Srbljic, S. (2020, September). Candidate Classification and Skill Recommendation in a CV Recommender System. In International Conference on AI and Mobile Services (pp. 30-44). Springer, Cham.

Ghosh, A., Woolf, B., Zilberstein, S., & Lan, A. (2020, December). Skill-based Career Path Modelling and Recommendation. In 2020 IEEE International Conference on Big Data (Big Data) (pp. 1156-1165). IEEE.

Sun, Y., Zhuang, F., Zhu, H., He, Q., & Xiong, H. (2021, April). Cost-effective and interpretable job skill recommendation with deep reinforcement learning. In Proceedings of the Web Conference 2021





#### 2.3 Problem Statement Definition:

Mr. Krishnan is an engineering graduate who completed his graduation in xyz college who needs a job to match his skills. He has applied for several company selection process. But the problem is he does not get a job that match his skills. In most cases, he will get eliminated in the technical rounds as the technical rounds' questions are asked based on the job roles. If he has a skill set regarding web development, he cannot clear the technical interview on other topics such as CRM, graphics designing, dot net etc. So, he needs something which should save his time by not going in person to apply for a job. As, going in person will include the traveling time and waiting time. So, an application based on the internet will contain all the companies' information about the selection process and the role they are recruiting. So that he can apply from everywhere and what roles they are applying for.

#### 3. IDEATION & PROPOSED SOLUTION

### 3.1 Empathy Map Canvas:

An empathy map canvas is a more in-depth version of the original empathy map, which helps identify and describe the user's needs and pain points. And this is valuable information for improving the user experience.

Teams rely on user insights to map out what is important to their target audience, what influences them, and how they present themselves. This information is then used to create personas that help teams visualize users and empathize with them as individuals, rather than just as a vague marketing demographic or account number.





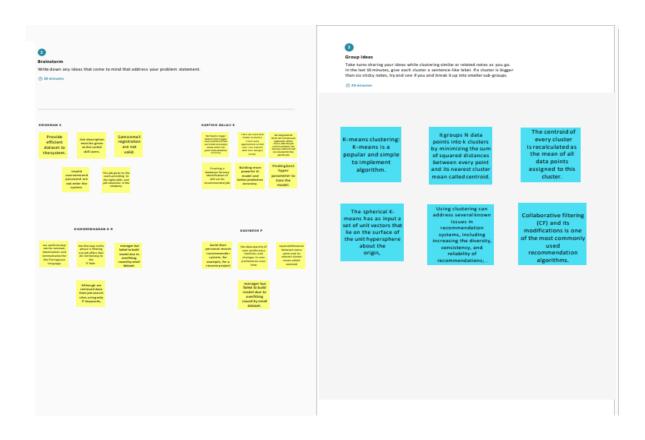
### 3.2 Ideation and Brainstroming:

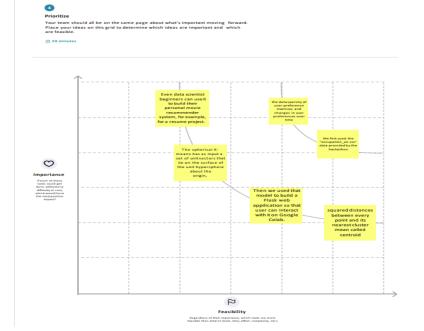
A principal difference between ideation and brainstorming is that ideation is commonly more thought of as being an individual pursuit, while brainstorming is almost always a group activity. Brainstorming is usually conducted by getting a group of people together to come up with either general new ideas or ideas for solving a specific problem or dealing with a specific situation.



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### **3.3 Proposed Solution:**

**Proposed Solution** means the combination of software, hardware, other products or equipment, and any and all services (including any installation, implementation, training, maintenance and support services) necessary to implement the solution described by Vendor in its Proposal.

# **Team ID : PNT2022TMID33364**PROJECT NAME SKILL & JOB RECOMMENDER

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem	To develop an end-to-end web
	to be solved)	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 from
		the webpage.

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2.	Idea / Solution description	Start with an audience-first focus. Instead of thinking about what your organization produces (job availability) and how to fit that into an app, start from scratch and consider your audience. Who are they, and what problems do they face? Use your imagination, do some role playing with colleagues, and actually talk to some realpeople.
3.	Novelty / Uniqueness	Building mobile tools with data isn't as easy as importing an XML feed of your latest headlines. But if you're going to spend thousands of dollars developing a mobile app anyway, you might as well spend a little more to build a real application that helps solve problems and makes advertisers take notice.
4.	Social Impact / Customer Satisfaction	These apps are all about solving problems and enabling the user to take an action — go to this bar, shop at that boutique, rent this apartment. These are the apps that build loyal audiences because they help people get things done instead of just presenting another thing they feel obligated to do (keep up with news stories). That is valuable not only for users, but for advertisers as well.





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5.	Business Model (Revenue	Building mobile tools with data isn't			
	Model)	as easy as importing an XML feed of			
		your latest available jobs. But if you're			
		going to spend thousands of			
		dollarsdeveloping a mobile app			
		anyway, you might as well spend a			
		little more to build a real application			
		that helps solve problems and makes			
		advertisers take notice.			
6.	Scalability of the Solution	Skill and job recommender			
		application can handle data across			
		machines and data that will not fit			
		into memory. It supports clusters and			
		can handle machinefailures,			
		rebuilding machines easily.			

### 3.4 Problem Solution Fit:

Problem-solution fit is a term used to describe the point validating that the base problem resulting in a business idea really exists and the proposed solution actually solves that problem.

The problem-solution fit is when you-

Validate that the problem exists: When you validate your problem
hypothesis using real-world data and feedback. That is, you gather
information from real users to determine whether or not they care
about the pain point you're trying to solve.

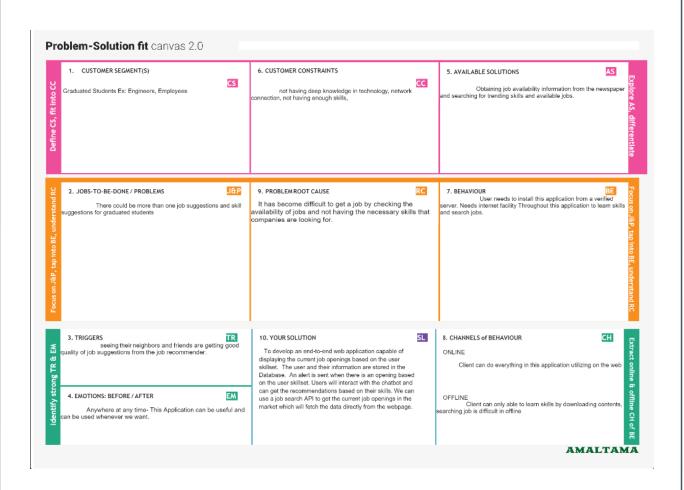






• Validate that your solution solves the problem: When you validate that the target audience appreciates the value your solution delivers to them.

The problem-solution fit precedes the product development and forms the foundation upon which a company is built. It helps you answer the basics startup-related questions before you even start your startup.









## 4. REQUIREMENT ANALYSIS

### **4.1 Function Requirement:**

**Functional** requirements are product features that developers must implement to enable the users to achieve their goals. They define the basic system behavior under specific conditions.

- Python
- Docker
- Flask

### **4.2 Non-Function Requirement:**

### **System Required**:

- 8GB RAM
- Intel Core i3
- OS- Windows/Linux/MAC
- Laptop or Deskto





# **5. PROJECT DESIGN**

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud ant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local, Cloud Foundry, Kubernetes, etc.





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# **Table-2: Application Characteristics:**

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
	Tameworks	nameworks useu	Opensource namework
2.	Security	List all the security / access	e.g. SHA-256,
	Implementations	controls implemented, use of	Encryptions, IAM
		firewalls etc.	Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of	Technology used
		architecture (3 – tier, Micro-	
		services)	
4.	Availability	Justify the availability of	Technology used
		application (e.g. use of load	
		balancers, distributed servers	
		etc.)	
5.	Performance	Design consideration for the	Technology used
		performance of the application	
		(number of requests per sec,	
		use of Cache, use of CDN's)	
		etc.	





#### 6. PROJECT PLANNING & SCHEDULING

Project scheduling involves creating a detailed project agenda that organizes all project to-dos and their deadlines. Project schedules work in tandem with a work breakdown structure, which breaks down projects into smaller achievable milestones. According to PMI, WBS organizes and defines a project's scope by decomposing it into work packages.

Managing a project without a schedule is like building your dream house with just a picture, basic tools and a nagging question: where do we even start? Immaculate project scheduling answers all your basic questions, resolves uncertainties and provides a clear path to the finish line.

Define all your project tasks, start and end dates, workflow cycle and resources needed to cover the project scope. It also monitors team workflows by offering you visibility into every individual's progress. The process eventually helps you optimize workload management.

Notably, it is never a static process. You will have to add or remove tasks, redefine milestones if they take longer than expected, and update





schedules continuously. Comprehensive schedules keep you at the helm of all deliverables in the course of a project's life cycle.

# **6.1 Sprint Planning & Estimation :**

Sprint	Functional Requireme nt (Epic)	User Story Numb er	User Story / Task	Acceptance criteria	Prio rity	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	KRISHNAN S KAVINESH P
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	KARTHIK BALAJI K
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	Kishored haran K R
Sprint-1		USN-4	As a user, I can register for the application through Gmail	I can receive confirmation email & click confirm	Medi um	KRISHNAN S
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	KARTHIK 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	KAVINESH P
Sprint-3	Identity- Aware	USN-7	Open, public access, User- authenticated access, Employee- restricted	Company public website. App running on the	High	KRISHNAN S





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			access.	company intranet. App with access to customer private informatio n.		
Sprint-4	Communic ation	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.	Medi um	KISHOREDH ARAN KR
Sprint-4	Device managem en t	USN-9	You can Delete/Disable/Enab le devices in Azure Active Directory but you cannot Add/Remove Users in the directory.	Ease of use.	Medi um	KARTHIK BALAJI K





## **6.2 Sprint Delivery Schedule:**

Sprint	Total Story Points	Durati on	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	30 Oct 2022	04 Nov 2022	20	4 Nov 2022
Sprint-3	20	6 Days	05 Nov 2022	10 Nov 2022	20	10 Nov 2022
Sprint-4	20	6 Days	11 Nov 2022	16 Nov 2022	20	16 Nov 2022

# 6.3 Report from JIRA:

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







#### **Common Pitfalls:**

- A Velocity measurement can only be developed after at least three sprints and is a measurement made after the fact in order to plan ahead, this therefore takes time which can sometimes anger stakeholder
- Velocity often differs between Sprints so it not a consistent measurable throughout projects and it is not project transferable and does not have a meaning comparison between different project teams

### **Advantages of velocity:**

Velocity aids delivery teams become more efficient and in terms of sprint planning and overall delivery and can decrease sprints by 10%.

Velocity is a useful tool to analyse key changes within a project, and whether change have had a positive or negative effect on the project velocity that can than be quickly amended.

Velocity is a key part in team of release planing which helps keep key stakholder informed in term of expected project progression and delivery

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#### 7. CODING & SOLUTIONING

#### 7.1 Feature 1 JOB SEEKE:

```
JOB SEEKER:
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Example</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-</pre>
scale=1">
k rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/boo
tstrap.min.css">
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquer
y.min.js"></script>
<script</pre>
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/boots
trap.min.js"></script>
<style>
.rus{
border-radius: 0%
};
.black{ color:
black;
```

```
</style>
</head>
<body>
<!----
<nav class="navbar navbar-inverse rus">
<div class="container-fluid">
<div class="navbar-header">
<a class="navbar-brand" href="#">Skill and Job
Recommender </a>
</div>
<a href="#"><span class="glyphicon glyphicon-log-</pre>
in"></span> Log
out</a>
</div>
</nav>
<!----
_____
<div class="container">
<a data-toggle="tab"</pre>
href="#home">Profile</a>
<a data-toggle="tab" href="#menu1">Eligibility
Test</a>
<a data-toggle="tab" href="#menu2">Find Job</a>
<div class="tab-content">
<div id="home" class="tab-pane fade in active">
<h3>PROFILE</h3>
<hr>>
```

```
-
```

```
<form>
<div class="alert alert-danger"> <div class="form-group">
<label for="name"><span clss="black">Name: </span></label>
<input type="text" class="form-control" id="name"</pre>
value="Mahadevan">
</div>
<div class="form-group">
<label for="email"><span class="black">Email Address
</span></label>
<input type="text" class="form-control" id="email"</pre>
value="Mahadevan@gmaiil.com">
</div>
<div class="form-group">
<label for="email"><span class="black">Mobile No
</span></label>
<input type="text" class="form-control" id="email"</pre>
value="9003824096">
</div>
<div class="form-group">
<label for="quali"><span class="black">What is your
Nationality
</span></label>
<input type="text" class="form-control" id="quali"</pre>
value="India">
</div>
<div class="form-group">
<label for="quali">What is your Qualification</label>
<input type="text" class="form-control" id="quali"</pre>
value="BE"> </div>
<div class="form-group">
<label for="quali">What year did you complete your bachelor
Degree?</label>
```

```
<input type="text" class="form-control" id="quali"</pre>
value="2023"> </div>
<div class="form-group">
<label for="experience">How many years of work experience do
you have
?</label>
<input type="text" class="form-control" id="experience"</pre>
value="0">
</div>
<div class="form-group">
<label for="place">Where have you graduated high school
degree ?</label> <input type="text" class="form-control"</pre>
id="place" value="Government high
school Ariyalur">
</div>
<div class="form-group">
<label for="SSLC">What is your SSLC Percentage :</label>
<input type="text" class="form-control" id="SSLC" value="90">
</div>
<div class="form-group">
<label for="HSC">What is your HSC Percentage :</label>
<input type="text" class="form-control" id="HSC" value="90">
</div>
<div class="form-group">
<label for="degree">What is your Percentage in bachelor
Degree: </label>
<input type="text" class="form-control" id="degree"</pre>
value="90.5"> </div>
<textarea class="form-control" id="aboutyou" rows="3"</pre>
placeholder="Write
<button type="submit" class="btn btn-primary btn-</pre>
```



```
success">Save
changes </button> <br> <br> <br> <br/> <br
</div>
</form>
</div>
<div id="menu1" class="tab-pane fade">
<h3>Eligibility Test </h3> <hr>
<div class="alert alert-info">
<label>What function is used to display output on the
screen?</label>
<div class="radio">
<label><input type="radio" name="print">printf()</label>
</div>
<div class="radio">
<label><input type="radio" name="scanf">scanf()</label>
</div>
<div class="radio">
<label><input type="radio" name="switch">switch</label>
</div>
</div> <hr>>
<div class="alert alert-info">
<label>What function is used to display output on the
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<div class="radio">
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</div>
<div class="radio">
<label><input type="radio" name="scanf">scanf()</label>
</div>
<div class="radio">
<label><input type="radio" name="switch">switch</label>
</div>
</div>
<button type="submit" class="btn btn-primary btn-</pre>
success">Submit the test</button> <br> <br>
</div>
<div id="menu2" class="tab-pane fade">
<h3>Find the job</h3> <hr>
<br>
<div class="container">
                                    ⟨! >
<form>
<div class="input-group">
<input type="text" class="form-control" id="myInput"</pre>
```



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



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



```
<div style="width: 600px;">
<!-- Left-aligned -->
<div class="media">
<div class="media-left">
<img src="images/img_avatar1.png" class="media-object"</pre>
style="width:60px"> </div>
<div class="media-body">
<h4 class="media-heading">UX /UI Designer</h4>
<h5 class="media-heading"> Company Name : JK Software
Solution</h4>
Job Location : Chennai
 Salary : 45000
<button type="submit" class="btn btn-primary btn-</pre>
success">Apply </button>
<br >
</div>
</div>
</div>
</div>
</div>
<script>
$(document).ready(function(){
$("#myInput").on("keyup", function()
{ var value =
$(this).val().toLowerCase();
$("#myDIV *").filter(function() {
$(this).toggle($(this).text().toLowerCase().indexOf(value)
});
});
});
</script>
</body>
```

# BACK END OF FEATURE 1 :

```
from flask import *#importing flask (Install it using
python -m pip install flask) import os import ibm_db
import bcrypt
#import send_from_directory app = Flask( name )
#initialising flask app.secret_key = ''
PEOPLE_FOLDER = os.path.join('static',
'people_photo')
import ibm_db conn =
ibm_db.connect("DATABASE=bludb; HOSTNAME=54a2f15b-
5c0f-46df-8954-
7e38e612c2bd.c1ogj3sd0tgtu0lqde00.databases.appdomain
.cloud; PORT=32733; SECURITY=SSL; S
SLServerCertificate=DigiCertGlobalRootCA.crt;PROTOCOL
=TCPIP;UID=phb43134;PWD=mTTnIE45 Raj9A0rr",'','')
@app.route("/") #defining the routes for the home()
funtion (Multiple routes can be used as seen here)
@app.route("/home")
def dashboard(): return
render_template("dashboard.html") #rendering our
home.html contained
within /templates def createjobseeker_profile():
if request.method == 'POST': name =
request.form['name'] email = request.form['email']
```

```
mobileno=request.form['mobileno']
nationality=request.form['nationality']
qualification=request.form['qualification']
passout=request.form['passout']
experience=request.form['experience"];
degree=request form['degree'];
per_sslc=request.form['per_sslc'];
per_hsc=request.form['per_hsc'];
per_degree=request.form['per_degree']; tum =
request.files['resume']
tum.save(os.path.join(app.config['UPLOAD_DIR'],tum.fi
lename))
hash=bcrypt.hashpw(password.encode('utf-
8'),bcrypt.gensalt())
query = "SELECT EMAIL FROM JOBSEEKER WHERE EMAIL=?"
stmt = ibm_db.prepare(conn, query)
ibm_db.bind_param(stmt,1,email) ibm_db.execute(stmt)
isUser = ibm_db.fetch_assoc(stmt)
if not isUser:
insert_sql = "INSERT INTO JOBSEEKER (name, email,
mobileno, nationality, qualification, passout,
experience, degree,per_sslc,per_hsc,per_degree)
VALUES
(?,?,?,?,?,?,?,?)" prep_stmt =
ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, name)
ibm_db.bind_param(prep_stmt, 2, email)
```



```
=04
```

```
ibm_db.bind_param(prep_stmt, 3, mobileno)
ibm_db.bind_param(prep_stmt, 4, nationality)
ibm_db.bind_param(prep_stmt, 5, qualification)
ibm_db.bind_param(prep_stmt, 6, passout)
ibm_db.bind_param(prep_stmt, 7, experience)
ibm_db.bind_param(prep_stmt, 8, degree)
ibm_db.bind_param(prep_stmt, 9, per_sslc)
ibm_db.bind_param(prep_stmt, 10, per_hsc)
ibm_db.bind_param(prep_stmt, 11, per_degree)
ibm_db.execute(prep_stmt) return
render_template('dashboard.html')
return render_template('dashboard.html',name='Home')
@app.route('/logout') def logout():
session.pop('email', None) return
redirect(url_for('login'))
7.2 Feature 2:
<!DOCTYPE html>
<html lang="en">
<head>
 <title>Bootstrap Example</title>
 <meta charset="utf-8">
 <meta
           name="viewport" content="width=device-width,
initialscale=1">
 k rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/boo
```



```
tst rap.min.css">
 <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquer
y.m in.js"></script>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/boots
tra
p.min.js"></script>
 <style>
   .rus{ border-radius:
       0%
   };
   .black{ color:bla ck;
   }
</style>
</head>
<body>
<nav class="navbar navbar-inverse rus">
   <div class="container-fluid">
     <div class="navbar-header">
           class="navbar-brand" href="#">Skill
       ⟨a
                                                 and
                                                      Job
Recommender </a>
     </div>
```



```
<a href="#"><span class="glyphicon glyphicon-</pre>
login"></span> Log out</a>
     \langle u1 \rangle
   </div>
 </nav>
<div class="container">
 1 i
                class="active"><a
                                           data-toggle="tab"
href="#home">Company Profile</a>
   ⟨li⟩⟨a
                 data-toggle="tab"
                                         href="#menu2">Find
candidate</a>
 \langle u1 \rangle
 <div class="tab-content">
   <div id="home" class="tab-pane fade in active">
     <h3>COMPANY PROFILE</h3>
     <hr>>
     <form>
       <div class="alert alert-danger">
       <div class="form-group">
        <label for="name"><span clss="black">Company Name:
</span></label>
          <input type="text" class="form-control" id="name"</pre>
value="Mahadevan">
         </div>
         <div class="form-group">
```

```
©
```

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

```
</div>
  <div id="menu2" class="tab-pane fade">
     <h3>Find the Condidate</h3> <hr>>
     <br>
     <div class="container">
     <!
     <form>
     <div class="input-group">
                  type="text" class="form-control"
      ∢input
id="myInput" placeholder="Look for a candidate"> <div</pre>
class="input-group-btn">
                         <button class="btn btn-default"</pre>
type="submit">
                           <i class="glyphicon glyphicon-</pre>
search"></i>
                         </button>
                        </div>
                    </div>
                  <!
     <div style="width: 600px;">
                       <!-- Left-aligned -->
```

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

<div class="media-body">

<h4 class="media-heading">Name :

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

btnsuccess">Know More </button> <br> <hr>>

</div>

</div>

٥

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

\$(document).ready(function(){

\$("#myInput").on("keyup", function()



# **CHATBOT:**

Chatbot has been implemented to provide assistance .

# =@\_

## 7.3 Database Schema(if Applicable) :

```
import os from sendgrid import SendGridAPIClient from
sendgrid.helpers.mail import Mail
# from_address we pass to our Mail object, edit with your
name FROM_EMAIL = 'Your_Name@SendGridTest.com'
def SendEmail(to_email):
""" Send an email to the provided email addresses
:param to_email = email to be sent to
:returns API response code
:raises Exception e: raises an exception """ message = Mail(
from_email=FROM_EMAIL, to_emails=to_email, subject='A Test
from SendGrid!', html_content='<strong>Hello there from
SendGrid your URL is: ' +
'<a href=''https://github.com/cyberjive''>right
here!</a></strong>') try:
sg = SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
response = sg.send(message) code, body, headers =
response.status_code, response.body, response.headers
print(f"Response Code: {code} ") print(f"Response Body:
{body} ") print(f"Response Headers: {headers} ")
print("Message Sent!")
except Exception as e:
print("Error: {0}".format(e))
return str(response.status_code)
if _name_ == "_main_":
SendEmail(to_email=input("Email address to send to? "))
```





## 8. TESTING

### 8.1 Test Cases:

				Team ID Project Name Maximum Marks	03-Nov-22  PNT2022TMID333 64  Poijed - SalkUob Recommender Application 4 marks								
Test case ID	Feature Type	Component	Test Scenario	Pre-Requisite	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Commnets	TC for Automation(Y /N	BUG ID	Executed By
LoginPage_TC_O O1	Functional	Login page	Verify that after registration users are navigated to login page	Mall id, Username, Password,Phone number, Pin	Open the website and go to register page.     Zinter details and press register     Alverify that users are navigated to registration page	https://drive.google.com/driv e/folders/100HtiudBBVX7m0rjEy0Mq41New1XF 5	Users should be navigated to registration page	Working as expected	Pass	Excellent	'N		KRISHNAN S
LoginPage_TC_O O2	ui	Home Page	Verify the UI elements in Login/Signup popup	Username & Password	Open the website     Z.Enter details and press login     Werify that users are notified of login process	https://drive.google.com/driv e/folders/10kpV13F1n210bS w2:9Alk8ELGsV9hRok	Users should be notified of login process	Not working	Fail	Trying To Recover	N	BUG12	KARTHIK BALAJI K
LoginPage_TC_O O3	Functional	Home page	Verify user is able to log into application with Valid credentials		Open the website     Enter details and press login     Werify that users are logged into website properly	Username: gr03122001@gmail.com password: 123	User should be logged into website properly	Working as expected	Pass	Good	N		KISHOREDHARAN K R
HomePage_TC_0 01	Functional	Home Page	Verify that categories of skills and jobs are shown in homepage		Open the website     Enter details and press login     Werify that categories of are showing Jobs shown in homepage		Categories of skills and jobs should be shown in homepage	Working as expected	Pass	Good	N	BUG14	KRISHNAN S
HomePage_TC_O O2	Functional	Home page	Verify that jobs are displayed in homepage		Open the website     Enter details and press login     Werify that jobs are displayed in homepage		jobs should be displayed in homepage	Working as expected	Pass	Good	N		KAVINESH P
HomePage_TC_O O3	Functional	Home page	Verify that when clicked on jobs it is redirected to correct page		Open the website     Enter details and press login     Werify that when clicked on jobs it is redirected to correct page		When clicked on job link it should be redirected to correct page	Working as expected	Pass	Excellent	N		KARTHIK BALAJI K

# 8.2 User Acceptance Testing:

## 1. Purpose of Document:

The purpose of this document is to briefly explain the test coverage and open issues of the Skills and Job Recommendation project at the time of the release to User Acceptance Testing (UAT).

# 2. Defect Analysis:

Section	Total Cases	Not Tested	Fail	Pass	
Print Engine	7	0	1	7	
Client Application	51	0	1	51	
Security	2	0	2	2	





This report shows the number of resolved or closed bugs at each severity level, and how they were resolved .

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	10	4	2	3	20
Duplicate	1	1	3	1	6
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	80

# **3.Test Case Analysis:**

This report shows the number of test cases that have passed, failed, and untested

Outsource Shipping	3	0	1	3
Exception Reporting	9	0	1	9
Final Report Output	4	0	1	4
Version Control	2	0	0	2





### 9. RESULTS

- The project has been completed as we expected.
- We ensured that Database was designed and well connected to our project.
- The Expected results we.

### 10. ADVANTAGES & DISADVANTAGES

### **ADVANTAGES:**

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

## **DISADVANTAGES:**

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





### 11. CONCLUSION

The application has been developed to make job search easier .The application that we have developed is user frie.User can find a job based on their skillset in the short period of time. The jobseeker certainly get benefit by using this application.In the addition,Chatbot Has been implemented with the help of IBM whatson . The chatbot helps jobseeker and organization when they experience the difficulties.

### 12. FUTURE SCOP

The linked in the wellknown application to find a job and stay connected with professional and organization..The job seekers and organization use linked in to find a job.n the future, There are lots of possibilities to enhance our project similar to linked in.

### 13. APPENDIX

### Source Code:

## Sprit 1:

## Home page:







```
</head>
          <body>
            <header>
               <nav class="navbar">
                 <a href="{{url_for('home')}}">Home</a>
                   <a href="{{url_for('register')}}">Register</a>
                   <a href="{{url_for('login')}}">Login</a>
                 </nav>
             </header>
             <section id="sss1">
               <h1 class="two" ><span style="color:rgb(109, 73, 214);background-color:
          whitesmoke;margin-left: 30px;padding-left: 20px;padding-right:
          20px;">SPARTANS</span>.com</h1>
               <div id="ss1">
                 <input class="input_search" type="text" placeholder="Search Jobs" >
                 <button class="button_search">Search/button>
               </div>
             </section>
          </body>
          </html>
login page:
             <html>
             <head>
               <title>Login page</title>
               <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
             </head>
             <body>
               <header>
               <nav class="navbar">
```

<center><h1 class="two" ><span style="color:rgb(109, 60,
225);background-color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-right: 20px;">SPATENS</span>.com</h1></center>

<a href="{{url\_for('welcome\_page')}}">Back to page</a>

</nav>
</header>

<section id="sss1">







```
</section>
    <br>>cbr><br>>
    <div class="container"> <br /> <br />
    <form action="/login" method="POST">
     <h1>Login</h1> <br /><br />
       <label class="form_label"for="email"><b>Username</b></label><br>>br><br>>
       <input class="form_input"type="text" name= "username" /><br>
       <label class="form_label"for="psw"><b>Password</b></label><br><br></label></ri>
       <input class="form_input"type="password" name="password"/>
       </br></br>
       <center><input type="submit" class="submitbtn"value="submit"</pre>
/></center>
    </form>
    </div>
    <center>Forgot your password? <a href="{{url_for('forget')}}">Try
Another Way</a></center>
    <center>Don't have a account <a href="{{url_for('register')}}">Create
new account</a></center>
  </body>
</html>
```

# Register page:

```
<html>
  <head>
     <title>Registration page</title>
     k rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
  </head>
  <body>
     <header>
     <nav class="navbar">
       <a href="{{url_for('welcome_page')}}">Back to page</a>
       </nav>
  </header>
     <section id="sss1">
       <center><h1 class="two" ><span style="color:rgb(109, 50,</pre>
237);background-color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-
right: 20px;">SPARTENS</span>.com</h1></center>
     </section>
     <div class="container">
     <form action="/register" method="POST">
       <h2>Registration</h2>
       <label class="form_label"for="email"><b>Email ID</b></label><br><br></label></label></label>
```

<u></u>





```
<input class="form_input"type="email" name="email"/><br><br>
      <label class="form label"for="user"><b>Username</b></label><br><br></ri>
      <input class="form_input"type="text" name= "username" /><br>
      <label class="form_label"for="psw"><b>Password</b></label><br>
       <input class="form_input"type="password" name="password"/><br>
      <label class="form_label"for="pho"><b> Enter Phone
number:</b></label><br>
      <input class="form_input"type="text" name="phonenumber"/><br>
      <label class="form_label"for="pho"><b> Enter four digit
pin:</b></label><br>
      <input class="form_input"type="password" name="pin"/>
      </br></br>
      <center> {% if error %}
    <strong style="color:red">Error</strong>: {{error}}
  {% endif %}
  {% with messages = get_flashed_messages() %}
     {% if messages %}
        {% for message in messages %}
           {{ message }}
        {% endfor %}
     {% endif %}
   {% endwith %} </center>
      <center><input type="submit" class="submitbtn"value="submit"
/></center>
      <center>Already have a account <a href="{{url for('login')}}">Sign
in</a></center>
    </form>
    </div>
  </body>
</html>
```

# Welcome page:

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# **Forgot Password:**

```
<html>
  <head>
    <title>Login page</title>
    <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
  </head>
  <body>
    <header>
    <nav class="navbar">
        <a href="{{url_for('welcome_page')}}">Back to page</a>
       </nav>
    </header>
    <section id="sss1">
       <center><h1 class="two" ><span style="color:rgb(109, 30,</pre>
192);background-color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-
right: 20px;">SPARTENS</span>.com</h1></center>
    </section>
    <br>>cbr><br>>
  {% if error %}
    <strong style="color:red">Error</strong>: {{error}}
  {% endif %}
  {% with messages = get_flashed_messages() %}
     {% if messages %}
        {% for message in messages %}
           {{ message }}
        {% endfor %}
     {% endif %}
   {% endwith %}
```







## Sprit 2:

#### **DATABASE CONNECTAIVITY:**

```
from flask import Flask, render_template,request,redirect,url_for,session,flash
import ibm_db
import os
from sendgrid import SendGridAPIClient
from sendgrid.helpers.mail import Mail
import requests
app=Flask(__name__)
app.secret_key='a'
try:
  conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217-
4024-b027-
8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=308
75;SECURITY=SSL;SSLServerCertificat=DigiCertGlobalRootCA.crt;UID=chr849
60;PWD=ky5p7N0JrFc3Ibvx",",")
  print("Unable to connect: ",ibm_db.conn_error())
@app.route("/")
def dash():
  return render_template('welcome.html',msg=" ")
@app.route("/register",methods=['GET','POST'])
```







```
def register():
  error = None
  if request.method=='POST':
      username=request.form['username']
      email=request.form['email']
      phone_number=request.form['phonenumber']
      password=request.form['password']
      pin=request.form['pin']
      sql="SELECT * FROM user WHERE phone_number=?"
      prep stmt=ibm db.prepare(conn,sql)
      ibm_db.bind_param(prep_stmt,1,phone_number)
      ibm_db.execute(prep_stmt)
      account=ibm_db.fetch_assoc(prep_stmt)
      print(account)
       #message =
Mail(from_email='btechmano@gmail.com',to_emails=session['email'],subject="D
evnews - Registration",html_content='<b>Devnews welcomes
you</b><pr>/p>Your account has been registered successfully')
       #try:
         #sq=SendGridAPIClient()
         # Secret key can't be submitted otherwise my
         # sendgrid accound reporting that i am exposing
         # my secret key as public and my account will terminated soon
         #response=sg.send(message)
         #print(response.status code)
         #print(response.body)
         #print(response.headers)
       #except Exception as e:
         #print(e)
      if account:
         error="Account already exists! Log in to continue !"
      else:
        insert_sql="INSERT INTO user values(?,?,?,?,?)"
        prep_stmt=ibm_db.prepare(conn,insert_sql)
        ibm db.bind param(prep stmt,1,email)
        ibm_db.bind_param(prep_stmt,2,username)
        ibm_db.bind_param(prep_stmt,3,phone_number)
        ibm_db.bind_param(prep_stmt,4,password)
        ibm_db.bind_param(prep_stmt,5,pin)
        ibm db.execute(prep stmt)
        flash(" Registration successfull. Log in to continue !")
  else:
    pass
  return render_template('register.html',error=error)
```







```
@app.route('/login',methods=['GET','POST'])
def login():
  error = None
  if request.method=='POST':
    username=request.form['username']
    password=request.form['password']
    sql="SELECT * FROM user WHERE username=? AND password=?"
    stmt=ibm_db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,username)
    ibm_db.bind_param(stmt,2,password)
    ibm_db.execute(stmt)
    account=ibm_db.fetch_assoc(stmt)
    print(account)
    if account:
       session['Loggedin']=True
       session['id']=account['USERNAME']
       session["username"]=account["USERNAME"]
       flash("Logged in successfully!")
       return redirect(url_for("home"))
    else:
       error="Incorrect username / password"
       return render_template('login.html',error=error)
  return render_template('login.html',error=error)
@app.route('/forget',methods=['GET','POST'])
def forget():
  error = None
  if request.method=='POST':
    username=request.form['username']
    pin=request.form['pin']
    sql="SELECT * FROM user WHERE username=? AND pin=?"
    stmt=ibm db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,username)
    ibm_db.bind_param(stmt,2,pin)
    ibm db.execute(stmt)
    account=ibm_db.fetch_assoc(stmt)
    print(account)
    if account:
       session['Loggedin']=True
       session['id']=account['USERNAME']
       session["username"]=account["USERNAME"]
       flash("Logged in successfully!")
       return redirect(url_for("home"))
    else:
       error="Incorrect username / pin"
```







```
return render_template('login.html',error=error)
  return render_template('forget.html',error=error)
@app.route('/welcome')
def welcome_page():
  return render_template("welcome.html",msg=" ")
@app.route('/home')
def home():
  return render_template("home.html",msg=" ")
@app.route('/skills')
def skills():
  return render_template("skills.html",msg=" ")
@app.route('/about')
def about():
  return render_template("about.html",msg=" ")
@app.route('/contact')
def contact():
  return render_template("contact.html",msg=" ")
if __name__=='__main__':
  app.run(debug=True)
```

#### **SKILLS PAGE:**

```
<!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>SPARTANS.com</title>
  k rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
  <header>
    <nav class="navbar">
      <a href="{{url_for('home')}}">Home</a>
        <a href="{{url_for('register')}}">Register</a>
        <a href="{{url_for('login')}}">Login</a>
      </nav>
  </header>
  <section id="sss1">
    <center><h1 class="two" ><span style="color:rgb(20, 20, 70);background-</pre>
color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-right:
```

9**(** 





```
20px;">SPARTANS.com</span></h1></center>
  </section>
  <br><br>>
  <section id="courses">
<center><h1>Our Courses</h1></center>
<div class="course">
 <img src="{{url_for('static',filename='img/course-01.jpg')}}"alt="skill 1">
<center><h2><a href="https://www.w3schools.com/html/">HTML5 For
Beginners</a></h2></center>
<center><h6>This course was designed for students starting out in Front End
Web Development wanting to learn HTML5 to get started.......</h6></center>
</div>
<div class="course2">
<img src="{{url_for('static',filename='img/course-02.jpg')}}"alt="skill 2">
<center><h2><a href="https://www.w3schools.com/css/">CSS3 For
Beginners</a></h2></center>
<center><h6>This course was designed for students starting out in Front End
Web Development wanting to learn CSS3 to get started.......</h6></center>
</div>
<div class="course3">
<img src="{{url_for('static',filename='img/course-03.jpg')}}"alt="skill 3">
<center><h2><a href="https://www.w3schools.com/js/">JavaScript For
Beginners</a></h2></center>
<center><h6>This course was designed for students starting out in Front End
Web Development wanting to learn JavaScript to get started......</h6></center>
</div>
</section>
</body>
</html>
```

#### **CONTACT PAGE:**







```
<a href="{{url_for('home')}}">Home</a>
        <a href="{{url_for('register')}}">Register</a>
        <a href="{{url_for('login')}}">Login</a>
      </nav>
  </header>
  <section id="sss1">
    <center><h1 class="two" ><span style="color:rgb(20, 20, 70);background-</pre>
color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-right:
20px;">SPARTANS.com</span></h1></center>
  </section>
  <br>>
  <center><h1 class="h1lt">Contact us</h1></center>
  <form>
First name:<br>
<input type="text" name="firstname" value="">
<br>
Last name:<br>
<input type="text" name="lastname" value="">
<br>
Email:<br>
<input type="text" name="email" value="">
<br>
<br>
 <textarea name="message" rows="10" cols="30">
</textarea>
<br>>cbr><br>>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

#### **FORGET PAGE:**

```
<html>
    <head>
        <title>Login page</title>
        link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
```

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```
<header>
    <nav class="navbar">
       <a href="{{url_for('welcome_page')}}">Back to page</a>
       </nav>
    </header>
    <section id="sss1">
       <center><h1 class="two" ><span style="color:rgb(109, 30,</pre>
192);background-color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-
right: 20px;">SPARTANS</span>.com</h1></center>
    </section>
    <br><br>>
  {% if error %}
    <strong style="color:red">Error</strong>: {{error}}
  {% endif %}
  {% with messages = get_flashed_messages() %}
     {% if messages %}
        {% for message in messages %}
           {{ message }}
        {% endfor %}
     {% endif %}
   {% endwith %}
    <div class="container"> <br /> <br />
    <form action="/forget" method="POST">
     <h1>Try to login with your 4 digit pin</h1> <br /><br />
       <label class="form label"for="email"><b>Username</b></label><br><br></la>
       <input class="form_input"type="text" name= "username" /><br>
       <label class="form_label"for="psw"><b>Pin</b></label><br><br></label></label></label>
       <input class="form_input"type="password" name="pin"/>
       </br></br>
       <center><input type="submit" class="submitbtn"value="submit"</pre>
/></center>
    </form>
    </div>
    <center>Back to <a href="{{url_for('login')}}">login</a></center>
  </body>
</html>
```

<u></u>





## Sprit 3:

#### **ABOUT PAGE:**

```
<!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>SPARTANS.com</title>
  k rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
  <header>
    <nav class="navbar">
      <a href="{{url_for('home')}}">Home</a>
        <a href="{{url_for('register')}}">Register</a>
        <a href="{{url_for('login')}}">Login</a>
      </nav>
  </header>
  <section id="sss1">
    <center><h1 class="two" ><span style="color:rgb(20, 20, 70);background-</pre>
color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-right:
20px;">SPARTANS.com</span></h1></center>
  </section>
</body>
</html>
```

#### **REGISTER PAGE:**







```
<a href="{{url_for('welcome_page')}}">Back to page</a>
       </nav>
  </header>
    <section id="sss1">
       <center><h1 class="two" ><span style="color:rgb(109, 50,</pre>
237);background-color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-
right: 20px;">SPARTANS</span>.com</h1></center>
    </section>
    <div class="container">
    <form action="/register" method="POST">
       <h2>Registration</h2>
       <label class="form label"for="email"><b>Email ID</b></label><br><br></label></label></label></label>
       <input class="form_input"type="email" name="email"/><br>
       <label class="form label"for="user"><b>Username</b></label><br><br></ri>
       <input class="form_input"type="text" name= "username" /><br>
       <label class="form_label"for="psw"><b>Password</b></label><br><br></label></label></label></label>
       <input class="form_input"type="password" name="password"/><br>
       <label class="form_label"for="pho"><b> Enter Phone
number:</b></label><br><br></
       <input class="form_input"type="text" name="phonenumber"/><br>
       <label class="form_label"for="pho"><b> Enter four digit
pin:</b></label><br>
       <input class="form_input"type="password" name="pin"/>
       </br></br>
      <center> {% if error %}
    <strong style="color:red">Error</strong>: {{error}}
  {% endif %}
  {% with messages = get_flashed_messages() %}
     {% if messages %}
        {% for message in messages %}
           {{ message }}
        {% endfor %}
     {% endif %}
   {% endwith %} </center>
       <center><input type="submit" class="submitbtn"value="submit"
/></center>
       <center>Already have a account <a href="{{url_for('login')}}">Sign
in</a></center>
    </form>
    </div>
  </body>
</html>
```







### **WELCOME PAGE:**

```
<!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>SPARTANS.com</title>
  k rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
  <header>
     <nav class="navbar">
       <
          <a href="{{url for('home')}}">Home</a>
         <a href="{{url_for('register')}}">Register</a>
         <a href="{{url_for('login')}}">Login</a>
       </nav>
  </header>
  <section id="sss1">
     <center><h1 class="two" ><span style="color:rgb(20, 20, 70);background-</pre>
color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-right:
20px;">SKYS.com</span></h1></center>
  </section>
  <br>><br>>
  <section id="jobs">
                                        <center><h1><b>APPLY
JOBS</b></h1></center><br>
     <img style="position:absolute;top:</pre>
250px;"src="{{url for('static',filename='img/php.jpg')}}" alt=""width="430"
height="250">
     <img style="position:absolute;top:</pre>
600px;"src="{{url_for('static',filename='img/python.png')}}" alt=""width="430"
height="250">
     <img style="position:absolute;top: 250px;left:</pre>
540px;"src="{{url_for('static',filename='img/software.jpg')}}" alt=""width="430"
height="250">
     <img style="position:absolute;top: 600px;left:</pre>
540px;"src="{{url_for('static',filename='img/java.jpg')}}" alt=""width="430"
height="250">
                                        <img style="position:absolute;top:</pre>
```







```
250px;left: 1050px;"src="{{url_for('static',filename='img/web.jpg')}}"
alt=""width="430" height="250">
    <img style="position:absolute;top: 600px;left:</pre>
1050px;"src="{{url_for('static',filename='img/sql.jpg')}}" alt=""width="430"
height="250">
                                       <h2 style="position:absolute;top:
500px;left:150px"><a href="https://in.indeed.com/PHP-Developer-
jobs?vjk=10cca9575b193c7d">APPLY</a></h2>
    <h2 style="position:absolute;top: 500px;left:725px"><a
href="https://in.indeed.com/Software-Developer-
jobs?vjk=b7da08f07cac87d5">APPLY</a></h2>
    <h2 style="position:absolute;top: 500px;left:1240px"><a
href="https://in.indeed.com/Web-Developer-
jobs?vjk=b81e49165da51eeb">APPLY</a></h2>
    <h2 style="position:absolute;top: 850px;left:1240px"><a
href="https://in.indeed.com/SQL-Developer-
jobs?vjk=ac86b15908022123">APPLY</a></h2>
    <h2 style="position:absolute;top: 850px;left:750px"><a
href="https://in.indeed.com/Java-Developer-
jobs?vjk=da306a665e00eb30">APPLY</a></h2>
    <h2 style="position:absolute;top: 850px;left:200px"><a
href="https://in.indeed.com/Python-Developer-
jobs?vjk=fa7b9bd250044569">APPLY</a></h2>
  </section>
</body>
</html>
```

## Sprit 4:

#### **DEPLOY CODE:**

```
apiVersion: apps/v1
kind: Deployment
metadata:
name: flask-node-deployment
spec:
replicas: 1
selector:
matchLabels:
app: flasknode
template:
metadata:
labels:
```

<u></u>





app: flasknode

spec:

containers:

- name: flasknode

image: us.icr.io/job-skill/job-skill imagePullPolicy: Always

ports:

- containerPort: 5000

#### **DOCKER FILE:**

FROM python:3.6
WORKDIR /app
ADD . /app
COPY requirements.txt /app
RUN python3 -m pip install -r requirements.txt
RUN python3 -m pip install ibm\_db
EXPOSE 5000
CMD ["python","app.py"]

#### **SERVICE FILE:**

apiVersion: v1 kind: Service metadata:

name: flask-node-deployment

spec:
ports:
port: 5000
targetPort: 5000
selector:
app: flasknode

### APP FILE:

from flask import Flask, render\_template,request,redirect,url\_for,session,flash import ibm\_db import os from sendgrid import SendGridAPIClient from sendgrid.helpers.mail import Mail import requests







```
app=Flask(__name_ )
app.secret_key='a'
try:
  conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217-
4024-b027-
8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=308
75;SECURITY=SSL;SSLServerCertificat=DigiCertGlobalRootCA.crt;UID=chr849
60;PWD=ky5p7N0JrFc3Ibvx",",")
except:
  print("Unable to connect: ",ibm_db.conn_error())
@app.route("/")
def dash():
  return render_template('welcome.html',msg=" ")
@app.route("/register",methods=['GET','POST'])
def register():
  error = None
  if request.method=='POST':
      username=request.form['username']
      email=request.form['email']
      phone_number=request.form['phonenumber']
      password=request.form['password']
      pin=request.form['pin']
      sql="SELECT * FROM user WHERE phone_number=?"
      prep_stmt=ibm_db.prepare(conn,sql)
      ibm_db.bind_param(prep_stmt,1,phone_number)
      ibm db.execute(prep stmt)
      account=ibm_db.fetch_assoc(prep_stmt)
      print(account)
       #message =
Mail(from_email='btechmano@gmail.com',to_emails=session['email'],subject="D
evnews - Registration",html content='<b>Devnews welcomes
you</b><br/>Your account has been registered successfully')
      #try:
         #sg=SendGridAPIClient()
         # Secret key can't be submitted otherwise my
         # sendgrid accound reporting that i am exposing
         # my secret key as public and my account will terminated soon
         #response=sg.send(message)
         #print(response.status_code)
         #print(response.body)
         #print(response.headers)
      #except Exception as e:
```





```
#print(e)
      if account:
        error="Account already exists! Log in to continue!"
      else:
        insert_sql="INSERT INTO user values(?,?,?,?,?)"
        prep_stmt=ibm_db.prepare(conn,insert_sql)
        ibm_db.bind_param(prep_stmt,1,email)
        ibm_db.bind_param(prep_stmt,2,username)
        ibm_db.bind_param(prep_stmt,3,phone_number)
        ibm_db.bind_param(prep_stmt,4,password)
        ibm_db.bind_param(prep_stmt,5,pin)
        ibm_db.execute(prep_stmt)
        flash(" Registration successfull. Log in to continue !")
  else:
    pass
  return render_template('register.html',error=error)
@app.route('/login',methods=['GET','POST'])
def login():
  error = None
  if request.method=='POST':
    username=request.form['username']
    password=request.form['password']
    sql="SELECT * FROM user WHERE username=? AND password=?"
    stmt=ibm_db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,username)
    ibm_db.bind_param(stmt,2,password)
    ibm_db.execute(stmt)
    account=ibm_db.fetch_assoc(stmt)
    print(account)
    if account:
       session['Loggedin']=True
       session['id']=account['USERNAME']
       session["username"]=account["USERNAME"]
       flash("Logged in successfully!")
       return redirect(url_for("home"))
    else:
       error="Incorrect username / password"
       return render_template('login.html',error=error)
  return render_template('login.html',error=error)
@app.route('/forget',methods=['GET','POST'])
def forget():
  error = None
```







```
if request.method=='POST':
    username=request.form['username']
    pin=request.form['pin']
    sql="SELECT * FROM user WHERE username=? AND pin=?"
    stmt=ibm_db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,username)
    ibm_db.bind_param(stmt,2,pin)
    ibm_db.execute(stmt)
    account=ibm_db.fetch_assoc(stmt)
    print(account)
    if account:
       session['Loggedin']=True
       session['id']=account['USERNAME']
       session["username"]=account["USERNAME"]
       flash("Logged in successfully!")
       return redirect(url_for("home"))
    else:
       error="Incorrect username / pin"
       return render_template('login.html',error=error)
  return render_template('forget.html',error=error)
@app.route('/welcome')
def welcome_page():
  return render_template("welcome.html",msg=" ")
@app.route('/home')
def home():
  return render_template("home.html",msg=" ")
@app.route('/skills')
def skills():
  return render_template("skills.html",msg=" ")
@app.route('/about')
def about():
  return render_template("about.html",msg=" ")
@app.route('/contact')
def contact():
  return render template("contact.html",msg=" ")
if __name__=='__main__':
  app.run(debug=True)
```

#### **ABOUT PAGE:**

```
<!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>SPARTANS.com</title>
  <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
  <header>
    <nav class="navbar">
       <a href="{{url_for('home')}}">Home</a>
        <a href="{{url_for('register')}}">Register</a>
        <a href="{{url_for('login')}}">Login</a>
       </nav>
  </header>
  <section id="sss1">
    <center><h1 class="two" ><span style="color:rgb(20, 20, 70);background-</pre>
color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-right:
20px;">SPARTANS</span></h1></center>
  </section>
</body>
</html>
```

### **CONTACT PAGE:**

```
<!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>SPARTANS.com</title>
  k rel="stylesheet" href="{{url for('static', filename='style.css')}}">
</head>
<body>
  <header>
    <nav class="navbar">
      <a href="{{url_for('home')}}">Home</a>
        <a href="{{url_for('register')}}">Register</a>
        <li><a href="{{url_for('login')}}">Login</a>
      </nav>
  </header>
```

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```
<section id="sss1">
    <center><h1 class="two" ><span style="color:rgb(20, 20, 70);background-</pre>
color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-right:
20px;">SPARTANS.com</span></h1></center>
  </section>
  <br>>
  <center><h1 class="h1lt">Contact us</h1></center>
  <form>
First name:<br>
<input type="text" name="firstname" value="">
<br>
Last name:<br>
<input type="text" name="lastname" value="">
<br>
Email:<br>
<input type="text" name="email" value="">
<br>
<br>
 <textarea name="message" rows="10" cols="30">
</textarea>
<br><br>>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

#### **FORGET PAGE:**

```
<html>
<head>
<title>Login page</title>
link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
<header>
<nav class="navbar">

<a href="{{url_for('welcome_page')}}">Back to page</a>
</nav>
</header>
</header>
```





```
<section id="sss1">
       <center><h1 class="two" ><span style="color:rgb(109, 30,</pre>
192);background-color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-
right: 20px;">SPARTANS</span>.com</h1></center>
    </section>
    <br><br>>
  {% if error %}
    <strong style="color:red">Error</strong>: {{error}}
  {% endif %}
  {% with messages = get_flashed_messages() %}
     {% if messages %}
        {% for message in messages %}
            {{ message }}
        {% endfor %}
     {% endif %}
   {% endwith %}
    <div class="container"> <br /> <br />
    <form action="/forget" method="POST">
     <h1>Try to login with your 4 digit pin</h1> <br /><br />
       <label class="form_label"for="email"><b>Username</b></label><br><br></ri>
       <input class="form_input"type="text" name= "username" /><br>
       <label class="form_label"for="psw"><b>Pin</b></label><br><br></label></label></label>
       <input class="form_input"type="password" name="pin"/>
       </br></br>
       <center><input type="submit" class="submitbtn"value="submit"</pre>
/></center>
    </form>
    </div>
    <center>Back to <a href="{{url_for('login')}}">login</a></center>
  </body>
</html>
```

#### **LOGIN PAGE:**

<u></u>





```
</nav>
    </header>
    <section id="sss1">
       <center><h1 class="two" ><span style="color:rgb(109, 60,</pre>
225);background-color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-
right: 20px;">SKYS</span>.com</h1></center>
    </section>
    <br><br><
    <div class="container"> <br /> <br />
    <form action="/login" method="POST">
     <h1>Login</h1> <br /><br />
       <label class="form_label"for="email"><b>Username</b></label><br>>br><br>>
       <input class="form_input"type="text" name= "username" /><br>
       <label class="form_label"for="psw"><b>Password</b></label><br><br></label></ri>
       <input class="form_input"type="password" name="password"/>
       </br></br>
       <center><input type="submit" class="submitbtn"value="submit"</pre>
/></center>
    </form>
    </div>
    <center>Forgot your password? <a href="{{url_for('forget')}}">Try
Another Way</a></center>
    <center>Don't have a account <a href="{{url_for('register')}}">Create
new account</a></center>
  </body>
</html>
```

#### **REGISTER PAGE:**





```
<center><h1 class="two" ><span style="color:rgb(109, 50,</pre>
237);background-color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-
right: 20px;">SPARTANS</span>.com</h1></center>
    </section>
    <div class="container">
    <form action="/register" method="POST">
       <h2>Registration</h2>
       <label class="form label"for="email"><b>Email ID</b></label><br><br></label></label></label></label>
       <input class="form_input"type="email" name="email"/><br><br>
       <label class="form label"for="user"><b>Username</b></label><br><br></ri>
       <input class="form_input"type="text" name= "username" /><br>
       <label class="form_label"for="psw"><b>Password</b></label><br><br></label></label>
       <input class="form input"type="password" name="password"/><br>
       <label class="form_label"for="pho"><b> Enter Phone
number:</b></label><br>
       <input class="form_input"type="text" name="phonenumber"/><br>
       <label class="form_label"for="pho"><b> Enter four digit
pin:</b></label><br>
       <input class="form_input"type="password" name="pin"/>
       </br></br>
      <center> {% if error %}
    <strong style="color:red">Error</strong>: {{error}}
  {% endif %}
  {% with messages = get_flashed_messages() %}
     {% if messages %}
        {% for message in messages %}
           {{ message }}
        {% endfor %}
     {% endif %}
   {% endwith %} </center>
       <center><input type="submit" class="submitbtn"value="submit"
/></center>
       <center>Already have a account <a href="{{url_for('login')}}">Sign
in</a></center>
    </form>
    </div>
  </body>
</html>
```

#### **SKILLS PAGE:**

```
<!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>SPARTANS.com</title>
  k rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
  <header>
    <nav class="navbar">
       <l
         <a href="{{url_for('home')}}">Home</a>
         <a href="{{url_for('register')}}">Register</a>
         <a href="{{url_for('login')}}">Login</a>
       </nav>
  </header>
  <section id="sss1">
    <center><h1 class="two" ><span style="color:rgb(20, 20, 70);background-</pre>
color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-right:
20px;">.com</span></h1></center>
  </section>
  <br>>
  <section id="courses">
<center><h1>Our Courses</h1></center>
<div class="course">
 <img src="{{url_for('static',filename='img/course-01.jpg')}}"alt="skill 1">
<center><h2><a href="https://www.w3schools.com/html/">HTML5 For
Beginners</a></h2></center>
<center><h6>This course was designed for students starting out in Front End
Web Development wanting to learn HTML5 to get started.......</h6></center>
</div>
<div class="course2">
<img src="{{url_for('static',filename='img/course-02.jpg')}}"alt="skill 2">
<center><h2><a href="https://www.w3schools.com/css/">CSS3 For
Beginners</a></h2></center>
<center><h6>This course was designed for students starting out in Front End
Web Development wanting to learn CSS3 to get started.......</h6></center>
</div>
<div class="course3">
<img src="{{url_for('static',filename='img/course-03.jpg')}}"alt="skill 3">
<center><h2><a href="https://www.w3schools.com/js/">JavaScript For
Beginners</a></h2></center>
<center><h6>This course was designed for students starting out in Front End
Web Development wanting to learn JavaScript to get started......</h6></center>
```





```
</div>
</section>
</body>
</html>
```

#### **WELCOM PAGE:**

```
<!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>SPARTANS.com</title>
  k rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
  <header>
    <nav class="navbar">
       <
         <a href="{{url_for('home')}}">Home</a>
         <a href="{{url_for('register')}}">Register</a>
        <a href="{{url_for('login')}}">Login</a>
       </nav>
  </header>
  <section id="sss1">
    <center><h1 class="two" ><span style="color:rgb(20, 20, 70);background-</pre>
color: whitesmoke;margin-left: 30px;padding-left: 20px;padding-right:
20px;">.com</span></h1></center>
  </section>
  <br>>
  <section id="jobs">
                                       <center><h1><b>APPLY
JOBS</b></h1></center><br>
    <img style="position:absolute;top:</pre>
250px;"src="{{url_for('static',filename='img/php.jpg')}}" alt=""width="430"
height="250">
    <img style="position:absolute;top:</pre>
600px;"src="{{url_for('static',filename='img/python.png')}}" alt=""width="430"
height="250">
```







```
<img style="position:absolute;top: 250px;left:</pre>
540px;"src="{{url_for('static',filename='img/software.jpg')}}" alt=""width="430"
height="250">
     <img style="position:absolute;top: 600px;left:</pre>
540px;"src="{{url_for('static',filename='img/java.jpg')}}" alt=""width="430"
height="250">
                                        <img style="position:absolute;top:</pre>
250px;left: 1050px;"src="{{url_for('static',filename='img/web.jpg')}}"
alt=""width="430" height="250">
     <img style="position:absolute;top: 600px;left:</pre>
1050px;"src="{{url_for('static',filename='img/sql.jpg')}}" alt=""width="430"
height="250">
                                        <h2 style="position:absolute;top:
500px;left:150px"><a href="https://in.indeed.com/PHP-Developer-
jobs?vjk=10cca9575b193c7d">APPLY</a></h2>
     <h2 style="position:absolute;top: 500px;left:725px"><a
href="https://in.indeed.com/Software-Developer-
jobs?vjk=b7da08f07cac87d5">APPLY</a></h2>
     <h2 style="position:absolute;top: 500px;left:1240px"><a
href="https://in.indeed.com/Web-Developer-
jobs?vjk=b81e49165da51eeb">APPLY</a></h2>
     <h2 style="position:absolute;top: 850px;left:1240px"><a
href="https://in.indeed.com/SQL-Developer-
jobs?vjk=ac86b15908022123">APPLY</a></h2>
     <h2 style="position:absolute;top: 850px;left:750px"><a
href="https://in.indeed.com/Java-Developer-
jobs?vjk=da306a665e00eb30">APPLY</a></h2>
     <h2 style="position:absolute;top: 850px;left:200px"><a
href="https://in.indeed.com/Python-Developer-
jobs?vjk=fa7b9bd250044569">APPLY</a></h2>
  </section>
</body>
</html>
```





## **GITHUB & PROJECT DEMO LINK:**

All the tasks of developing the application were uploaded on the github.

The github has been uploaded below: <u>IBM-EPBL/IBM-Project-39492-1660451436</u>: <u>Skill / Job Recommender Application (github.com)</u>

The project report link : <a href="https://drive.google.com/file/d/1SrYXKXSa9N92Ke\_M5\_T2OQKQ3yCSWz">https://drive.google.com/file/d/1SrYXKXSa9N92Ke\_M5\_T2OQKQ3yCSWz</a> WB/view?usp=share\_link