Skill/Job Recomender Application

Submited by,

Praveen s, Akash S, DivaharD, Selvakumar V

1. INTRODUCTION

1.1 Project Overview

Recommender systems usually make use of either or both collaborative filtering and content-based filtering (also known as the personality-based approach), as well as other systems such as knowledge-based systems. Collaborative filtering approaches build a model from a user's past behavior (items previously purchased or selected and/or numerical ratings given to those items) as well as similar decisions made by other users. This model is then used to predict items (or ratings for items) that the user may have an interest in. Content-based filtering approaches utilize a series of discrete, pre-tagged characteristics of an item in order to recommend additional items with similar properties. Each type of system has its strengths and weaknesses. Recommender systems are a useful alternative to search algorithm since they help users discover items they might not have found otherwise. Of note, recommender systems are often implemented using search engines indexing non-traditional data. Recommender systems have been the focus of several granted patents.

1.2 Purpose

The recommender system technology aims to help users in finding items that match their personnel interests; it has a successful usage in e-commerce applications to deal with problems related to information overload efficiently. Recommender system has the ability to predict whether a particular user would prefer an item or not based on the user's profile. Recommender systems are beneficial to both service providers and users. Therefore, the need to use efficient and accurate recommendation techniques within a system that will provide relevant and dependable recommendations for users cannot be over-emphasized. The collaborative filtering does not take into account the type of items, nor their attributes. It takes exclusively into account the expressed opinion about the other items in order to make recommendations. Meanwhile, content-based filtering uses the knowledge it has of the items and their attributes to make recommendations.

2. LITERATURE SURVEY

2.1 Existing problem

The web recommender System suffers from many challenges such as Lack of Data, Changing Data, Changing User Preferences, Unpredictable Items, Scalability, Privacy protection. Some of them are:Cold-start,Privacy, Over-specialization, Scalability,Sparsity, Freshness etc. Cold-start Cold start problem can be classified into two categories, cold start of new items and cold start of new users. Cold start problem for an itemoccurs when we don't have enough previous rating related to that item. Also, it is a bit difficult to recommend items to new users as the system don't have any information related to his past purchases or

it might be possible that he has not rated any item yet so his taste is unknown to the system. Scalability As the numbers of users and items grows the system needs more resources in order to give the most accurate recommendations to the users. Most of resources are used in the purpose of determining users of similar tastes, and items with similar attributes. It is one of the problems found in collaborative filtering approach. Sparsity Suppose, you have an online shop that has huge amountusers and items. If a user purchased few items from the shop and has rated any of them. Then, it will lead to the problem of Sparsity. Also, we can say that Sparsity is the problem of lack of knowledge. Privacy is also a big issue in context of demographic recommender systems. In order to give the most accurate recommendation to the user, the system must acquire the most appropriate information of user, including demographic data (age, sex, email-id, hobbies etc.), and data about the location of a particular user which may breach the privacy of the user. Over-Specialization This is one of the most common problems faced by the content-based recommendation system. A good recommender system must suggest diverse items which content-based system lacks. It gives nothing "surprised". It hinders the users from discovering something new and different. Users are recommended items they are already familiar with. Freshness(Predictability): One more problemgenerally faced by recommender systems these days is that of predictability. Even if the items recommended to the user are diverse, it might be familiar to the user. For example, a system recommends best sellers only. The recommendations in this case are indeed diverse but the user may already know or be familiar with the recommended st

2.2 References

- [1] Collaborative job prediction based on Naïve Bayes Classifier using python platform Authors: Savita Choudhary Siddanth Koul, Shridhar Mishra, Anunay Thakur, Rishabh Jain Published in: 2016 International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS) The reason of this paper is to put in force a advice device for job portals based on collaborative filtering techniques. The machine is designed to recommend jobs to the consumer based on his profile and by means of calculating a similarity index between two skill units the use of Euclidean distance and then rating them the use of their naive Bayes algorithm. Python was once used to implement the suggestion system.
- [2] CaPaR: A Career Path Recommendation Framework Authors: Magdalini Eirinaki, Bharat Patel. Varun Kakuste Published in: 2017 IEEE Third International Conference on Big Data Computing Service and Applications (BigDataService) Existing job suggestion structures only reflect onconsideration on the user's subject of pastime and omit the user's profile and skills, which should result in extra relevant career guidelines for users. CaPaR, a Career Path Recommendation framework, is proposed in this paper to address such shortcomings. The gadget scans the user's profile and resume, identifies the candidate's key skills, and generates

customized job recommendations using textual content mining and collaborative filtering techniques. Furthermore, the device suggests to student's extra competencies needed for related job openings, as nicely as learning assets for each skill. As a result, the gadget not only permits its customers to explore big quantities of information, but additionally to enlarge their portfolio and resume in order to enhance their careers.

[3] Generating Unified Candidate Skill Graph for Career Path Recommendation Authors: Akshay Gugnani, Karthikeyan Ponnalagu and Vinay Kumar Reddy Kasireddy Published in: 2018 IEEE International Conference on Data Mining Workshops (ICDMW) Given the quantity of profession role statistics of individuals handy online, personalized profession route recommendation systems that should mine and advocate the most relevant profession paths for a consumer are on the rise. However, such advice systems usually are solely positive inside a single company the place there are standardized job roles. At an enterprise area level such as Information Technology or across such kind of one enterprise sectors (such as retail, insurance, health care), mining and recommending the most applicable career paths for a user is still an unsolved lookup challenge. Towards addressing this problem, this paper proposes a machine that leverages the concept of competencies to construct talent graphs that can shape the foundation for profession path recommendations. Skills are perceived to be greater amenable for profession path standardizations across the organizations. The proposed device ingests a user's profile (in a pdf, phrase format or different public and shared data sources) and leverages an Open IE pipeline to extract education and experiences. Subsequently, the extracted entities are mapped as precise capabilities that are expressed in the form of a novel unified skill graph. Such ability graphs which capture both spatial and temporal relationships are believed to aid in producing specific profession path recommendations. A comparison of this modern ability extraction mannequin with an industrial scale dataset yielded a precision and recall of 80.54% and 86.44% respectively

2.3 Problem Statement Definition

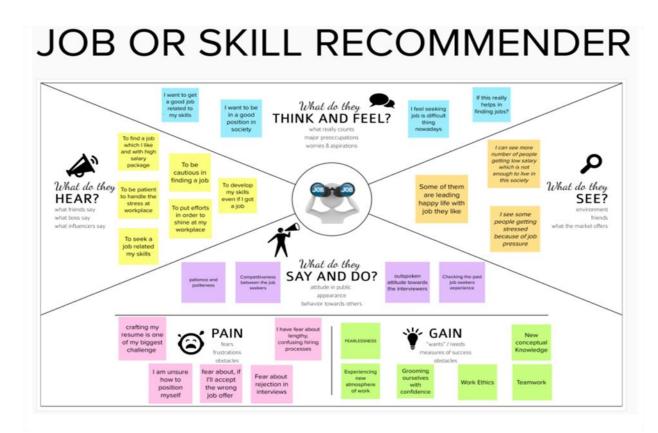
In the ultimate years, job recommender systems have emerged as famous for the reason that they correctly minimize data overload by using producing customized job suggestions. Although in the literature exists a variety of strategies and techniques used as part of job recommender systems, most of them fail to recommending job vacancies that healthy proper to the job seekers profiles. Thus, the contributions of this work are threefold, we: i)made publicly accessible a new dataset formed by a set of job seekers profiles and a set of job vacancies amassed from distinctive job search engine sites ii) put ahead the proposal of a framework for job suggestion based totally on expert competencies of job seekers iii) carried out an assessment to quantify empirically the advice competencies of two state of-the-art methods, thinking about special configurations, inside the proposed framework. Thus, we

current a familiar panorama of job suggestion project aiming to facilitate lookup and realworld utility sketch regarding this necessary issue.

3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas

An empathy map is a collaborative tool teams can use to gain a deeper insight into their customers. Much like a user persona, an empathy map can represent a group of users, such as a customer segment. The empathy map was originally created by Dave Gray and has gained much popularity within the agile community.



3.2 Ideation & Brainstorming

Ideation is the process of forming ideas from conception to implementation, most often in a business setting. Ideation is expressed via graphical, written, or verbal methods, and arises from past or present knowledge, influences, opinions, experiences, and personal convictions. Brainstorming is a group problem-solving method that involves the spontaneous contribution of creative ideas and solutions. This technique requires intensive, freewheeling discussion in which every member of the group is encouraged to think aloud and suggest as many ideas as possible based on their diverse knowledge.

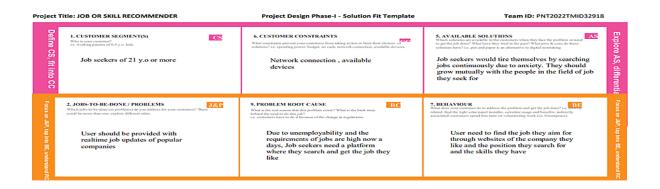


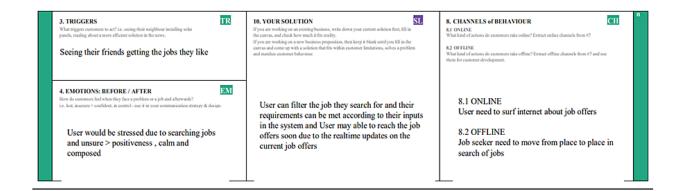
3.3 Proposed Solution

Proposed Solution Template:

S.No.	Parameter	Description
•	Problem Statement (Problem to be solved)	Realtime information on job vacancies available in top companies with salary preferences.
•	Idea / Solution description	Updation of database with the company job openings through company sites.
•	Novelty / Uniqueness	Filtration of the user specified job could be done to get more precised result.
•	Social Impact / Customer Satisfaction	Many users will get Job based on their choice.
•	Business Model (Revenue Model)	Everybody would seek job at some point of time so this app will make reasonable revenue.
•	Scalability of the Solution	User requirements can be met through this application.

3.4 Problem Solution fit





4. REQUIREMENT ANALYSIS

4.1 Functional requirement

Following are the functional requirements of the proposed solution

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form
		Registration through Gmail
		Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email
		Confirmation via OTP
FR-3	User Login	Login through Form
		Login through Gmail
		Login through LinkedIN
FR-4	User Profile	Updation of the user profile through the Login
		credentials
FR-5	User Search	Exploration of Jobs that users search for using the filters
FR-6	User Acceptance	Confirmation of the job

4.2 Non-Functional requirements

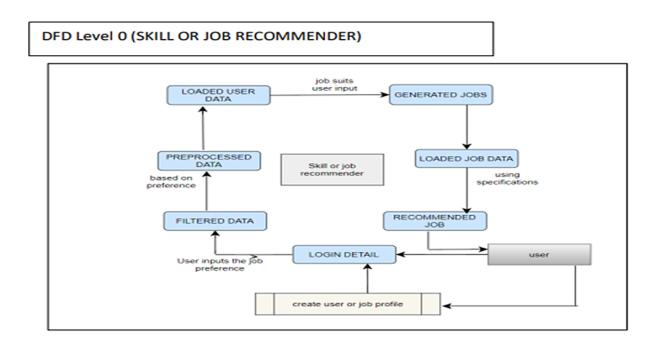
Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	This application can be used by the job seekers to login and search for the jobs
NFR-2	Security	This application is secure with the personalised Login credentials
NFR-3	Reliability	This application is trustworthy which provides good job offers and suggestions of skillset with real time notifications
NFR-4	Performance	The performance of the application is quicker responses to search of job seeker
NFR-5	Availability	This application provides job offers and skillset with user's preference
NFR-6	Scalability	The response time of the application is quite faster with user choice

5. PROJECT DESIGN

5.1 Data Flow Diagrams

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.



5.2 Solution & Technical Architecture

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2

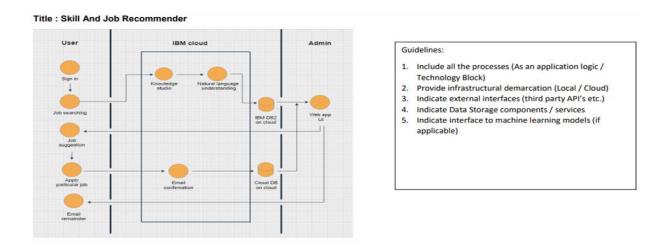


Table-1 : Components & Technologies:

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 Cloudant 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.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

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

S.No	Characteristics	Description	Technology
		application (number of requests per sec, use of Cache, use of CDN's) etc.	

5.3 User Stories

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

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Job Seeker (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard	USN-6	As a user, I can access the dashboard for jobs to search	I can access the dashboard	High	Sprint-1
Job Seeker (Web user)	Login	USN-7	As a user, I can log into the application by entering email & password	I can log into the account I have created	High	Sprint-1
Administrator	Registration	USN-8	As a administrator, I can see the registration details	I can access the registration details	High	Sprint-1
	Login	USN-9	As a administrator, I can see the login details	I can access the login details	High	Sprint-1
	Dashboard	USN-10	As a administrator, I can update the dashboard	I can update the dashboard	High	Sprint-1

6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

Use the below template to create product backlog and sprint schedule

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	Mukil I Nithyashree R Subasri D R Dhivya V
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	2	High	Mukil I Nithyashree R Subasri D R Dhivya V
Sprint-2		USN-3	As a user, I can register for the application through Facebook	3	Low	Mukil I Nithyashree R Subasri D R Dhivya V
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Mukil I Nithyashree R Subasri D R Dhivya V
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	2	High	Mukil I Nithyashree R Subasri D R Dhivya V
Sprint-2	Dashboard	USN-6	As a user, I can search for jobs through this application	3	Medium	Mukil I Nithyashree R

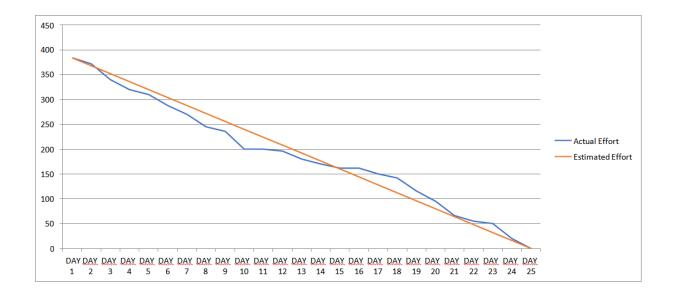
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						Subasri D R Dhivya V
Sprint-3	Dashboard	USN-7	As a user, I can upload the resume	4	High	Mukil I Nithyashree R Subasri D R Dhivya V
Sprint-3		USN-8	As a user , I can see the suggestions for the jobs	2	Medium	Mukil I Nithyashree R Subasri D R Dhivya V
Sprint-3		USN-9	As a user, I should be able to specify the domain	4	High	Mukil I Nithyashree R Subasri D R Dhivya V
Sprint-4	Database	USN-10	As a user, details should be saved in the DB	4	High	Mukil I Nithyashree R Subasri D R Dhivya V
Sprint-4	Chat Bot	USN-11	As a user, I should be able to chat with the application	3	Medium	Mukil I Nithyashree R Subasri D R Dhivya V

6.2 Sprint Delivery Schedule

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	8	6 Days	24 Oct 2022	29 Oct 2022	8	29 Oct 2022
Sprint-2	6	6 Days	31 Oct 2022	05 Nov 2022	6	05 Nov 2022
Sprint-3	10	6 Days	07 Nov 2022	12 Nov 2022	10	12 Nov 2022
Sprint-4	7	6 Days	14 Nov 2022	19 Nov 2022	7	19 Nov 2022

6.3 Reports from JIRA

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies suchas Scrum. However, burn down charts can be applied to any projectcontaining measurable progress over time.



<link rel="stylesheet" href="style1.css">

k rel="preconnect" href="https://fonts.gstatic.com">

<!-- font styles cdn -->

```
7. CODING & SOLUTIONING
7.1 Feature 1
7.1.1Apply html page
<!DOCTYPE html>
<html lang="en">
<head>
  <header>
    <h2>SKILL/JOB RECOMMENDER</h2></header>
  <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>JOBPORTAL | APPLY</title>
    <!-- favicon -->
    <!-- <li>k rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
    <!-- <li>rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
    k rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-
32x32.png">
    <!-- bootstrap css cdn -->
    k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
    <!-- css stylesheet -->
    k rel="stylesheet" href="static/css/style.css">
```

```
k href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
  <!-- bootstrap navbar -->
  <div class="logo mt-3 text-center">
  </div>
   <!-- navbar ends -->
  <!-- Login form -->
  <div class="login text-center mt-5">
    <h2>Apply Now</h2>
    <div class="msg">{{ msg }}</div>
    <form action="/apply" method="post" class="mt-3">
      <!-- <input type="text" placeholder="fullname" id="fullname"> </br>
       <input type="text" name="username" placeholder="Enter Your Username"</pre>
id="username" required></br>
      <input type="email" name="email" placeholder="Enter Your email" id="email"
required></br></br>
       <input type="text" name="qualification" placeholder="Enter Your Qualification"</pre>
id="qualification" required></br>
       <input type="text" name="skills" placeholder="Enter Your skills" id="skills"
required></br>
        <select name ="s">
<option value ="PYTHON"> Python</option>
<option value ="ML"> ML</option>
<option value ="AI"> AI</option>
</select>
       </br>
    <button type="submit" id="button" class="btn btn-primary"> Submit</button>
```

```
</form>
  </div>
<div class="note mt-3 text-center">
  click here to go to dashboard <a href="dashboard">Dashboard! </a> 
  </div>
</body>
</html>
JOBPORTAL | APPLY
                  × Microsoft Edge
    C File | C:/Users/Admin/AppData/Local/Temp/Rar$EXa8184.31626/templates/apply.html
                                                                                             A 6 6 1 1 ...
                                       SKILL/JOB RECOMMENDER
                                        click here to go to dashboard Dashboard!
                                                      Apply Now
                                                          {{ msg }}
                                             Enter Your Username
                                             Enter Your email
                                             Enter Your Qualification
                                             Enter Your skills
                                             Python
Type here to search
7.1.2 Dashboard html page
```

```
<!DOCTYPE html>
<html lang="en">
<head>
 <header>
  <h2>SKILL/JOB RECOMMENDER</h2></header>
  <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>JOBPORTAL | HOME</title>
  <meta charset="UTF-8">
    <!-- favicon -->
```

```
<!-- <li>rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
    <!-- <li>rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
    k rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-
32x32.png">
    <!-- bootstrap css cdn -->
    k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
    <!-- css stylesheet -->
    k rel="stylesheet" href="static/css/style.css">
    <link rel="stylesheet" href="style1.css">
    <!-- font styles cdn -->
    k rel="preconnect" href="https://fonts.gstatic.com">
    k href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
    <!-- bootstrap navbar -->
    <nav class="navbar sticky-top navbar-expand-lg navbar-light">
       <div class="container-fluid">
        <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
         <span class="navbar-toggler-icon"></span>
        </button>
```

```
<div class="row donate-sponsor">
         <a type="button" class="btn btn-success mr-1" id="donate"
href="/logout">LOGOUT</a>
         <a type="button" class="btn btn-warning mr-1" id="sponsor"
href="register">REGISTER</a>
         <a type="button" class="btn btn-primary mr-1" id="sponsor" href="display">MY
JOBS</a>
        </div>
       </div>
     </nav>
     <!-- navbar ends -->
    <!-- what we focus on -->
    <section class="our-focus">
       <div class="container">
        <h2 class="text-center mt-3">Available Jobs</h2>
        <div class="row ml-3 mt-3">
         <div class="col-lg-3 mr-5" id="focus-first">
          <div class="card" style="width: 19rem;">
           <!-- <img src="assets/img/home kids.jpg" class="card-img-top" alt="..."> -->
           <div class="card-body">
            <h5 class="card-title">Python</h5>
            Skills for python
            <a href="apply" class="btn btn-primary">Apply Now</a>
           </div>
          </div>
         </div>
         <div class="col-lg-3 mr-5" id="focus-second">
          <div class="card" style="width: 20rem;">
           <!-- <img src="assets/img/friendship day.JPG" class="card-img-top" alt="...">-->
           <div class="card-body">
            <h5 class="card-title">Data Scientist</h5>
```

```
Skills for datascientist
               <a href="apply" class="btn btn-primary">Apply Now</a>
            </div>
           </div>
          </div>
          <div class="col-lg-3 ml-5" id="focus-third">
           <div class="card" style="width: 20rem;">
            <!-- <img src="assets/img/health camp.jpg" class="card-img-top" alt="..."> -->
            <div class="card-body">
             <h5 class="card-title">HR Manager</h5>
             skills for hr manager
               <a href="apply" class="btn btn-primary">Apply Now</a>
            </div>
           </div>
          </div>
        </div>
       </div>
      </section>
    <!-- footer starts -->
      <!-- Site footer -->
      </body>
</html>
□ | □ JOBPORTAL | APPLY × | ™ Microsoft Edge × □ JOSPORTAL | HOME × +

← ♂ □ ⊕ File | C/Users/Admin/AppData/Local/Temp/RarsEXa8184.3700/templates/dashboard.html
                                                                               SKILL/JOB RECOMMENDER
```

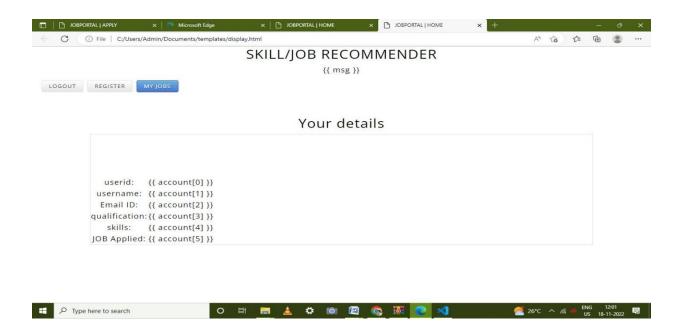


7.1.3 Display html page

```
<!DOCTYPE html>
<html lang="en">
<head>
 <header>
  <h2>SKILL/JOB RECOMMENDER</h2></header>
  <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>JOBPORTAL | HOME</title>
   <div class="msg">{{ msg }}</div>
  <meta charset="UTF-8">
    <!-- favicon -->
    <!-- <li>rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
    <!-- <li>rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
    k rel="icon" type="/image/png" sizes="16x16" href="/assets/img/favicon-
32x32.png">
    <!-- bootstrap css cdn -->
    k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
crossorigin="anonymous">
    k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="static/css/style.css">
    <link rel="stylesheet" href="style1.css">
    <!-- font styles cdn -->
    k rel="preconnect" href="https://fonts.gstatic.com">
    k href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
```

```
link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
    <!-- bootstrap navbar -->
    <nav class="navbar sticky-top navbar-expand-lg navbar-light">
      <div class="container-fluid">
       <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
         <span class="navbar-toggler-icon"></span>
       </button>
       <div class="row donate-sponsor">
         <a type="button" class="btn btn-success mr-1" id="donate"
href="/logout">LOGOUT</a>
         <a type="button" class="btn btn-warning mr-1" id="sponsor"
href="register">REGISTER</a>
         <a type="button" class="btn btn-primary mr-1" id="sponsor" href="display">MY
JOBS</a>
       </div>
      </div>
     </nav>
     <!-- navbar ends -->
    <!-- what we focus on -->
    <section class="our-focus">
      <div class="container">
       <h2 class="text-center mt-3">Your details</h2>
        <div class="border">
        </br></br></br>
         userid:
```

```
{{ account[0] }}
     username:
     {{ account[1] }}
     Email ID:
     {{ account[2] }}
     qualification:
     {{ account[3] }}
     skills:
     {{ account[4] }}
     JOB Applied:
     {{ account[5] }}
    </section>
</body>
</html>
```



7.1.4 Home html page

```
<!DOCTYPE html>
<html lang="en">
<head>
 <header>
  <h2>SKILL/JOB RECOMMENDER</h2></header>
  <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>JOBPORTAL | HOME</title>
  <meta charset="UTF-8">
    <!-- favicon -->
    <!-- <li>rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
    <!-- <li>rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
    k rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-
32x32.png">
    <!-- bootstrap css cdn -->
    k rel="stylesheet"
```

href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"

```
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="static/css/style.css">
    <link rel="stylesheet" href="style1.css">
    <!-- font styles cdn -->
    k rel="preconnect" href="https://fonts.gstatic.com">
    k href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
    <!-- bootstrap navbar -->
    <nav class="navbar sticky-top navbar-expand-lg navbar-dark">
       <div class="container-fluid">
        <div class="row donate-sponsor">
         <a type="button" class="btn btn-success mr-1" id="donate"
href="login">LOGIN</a>
         <a type="button" class="btn btn-warning mr-1" id="sponsor"
href="register">REGISTER</a>
         <a type="button" class="btn btn-primary mr-1" id="sponsor"
href="contact.html">CONTACT US</a>
        </div>
       </div>
      </nav>
     <!-- navbar ends -->
    <!-- what we focus on -->
```

```
<section class="our-focus">
       <div class="container">
        <h2 class="text-center mt-3">Aboutus</h2>
        <div class="row ml-3 mt-3">
         <div class="col-lg-3 mr-5" id="focus-first">
          <div class="card" style="width: 19rem;">
           <!-- <img src="assets/img/home kids.jpg" class="card-img-top" alt="..."> -->
           <div class="card-body">
            <h5 class="card-title">Mission</h5>
            This is an edTech organization with a vision to bridge the
gap between academia & industry. Our outcome-based experiential learning programs on
emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial
Intelligence, Robotics) are building skilled entry - level engineers, for the corporate world.
            </div>
          </div>
         </div>
         <div class="col-lg-3 mr-5" id="focus-second">
          <div class="card" style="width: 20rem;">
          <!-- <img src="assets/img/friendship day.JPG" class="card-img-top" alt="..."> -->
           <div class="card-body">
            <h5 class="card-title">Vision</h5>
            Our main objective is to bridge the existing gaps between
prevailing industry standards and what the academics offer to the graduates while passing out
of university. This offers suitable skill deployment and training to the young talent before on
boarding their first job.
Our skill development programs are designed considering the present expectations in the
industry. 
           </div>
```

</div>

</div>

institutions

Appropriate certification courses that suit the industry need

Train the trainers; expanded awareness about the current industry standards

Liaise with corporates to offer niche internships

Establish technology development centers in colleges

Specialised incubation centers in collaboration with corporates.

```
</div>
     </div>
    </div>
   </div>
  </div>
 </section>
 <!-- focus section ends -->
<!-- footer starts -->
 <!-- Site footer -->
 <footer class="site-footer">
  <div class="container mt-5">
   <div class="row">
    <div class="col-sm-12 col-md-6">
     <h3>JobPortal</h3>
    <div class="col-xs-6 col-md-3">
     <h4>Get in Touch</h4>
     <a href="mailto:test@gmail.com">jobportal@gmail.com</a>
      <a href="">+91 8977787657</a>
```

```
</div>
           </div>
         <hr>
           </div>
         </div>
    </footer>
        </body>
</html>
     A* Q 6 6 @
                                                  SKILL/JOB RECOMMENDER
 LOGIN REGISTER CONTACT US
                                                    Our main objective is to 
bridge the existing gaps 
between prevailing industry 
standards and what the 
academics offer to the 
graduates while passing out 
of university. This offers
                                                                             Well directed career
guidance programs fo
educational institution
Appropriate certification
                                         JobPortal
Type here to search
7.1.5 Login html page
<!DOCTYPE html>
<html lang="en">
<head>
   <header>
      <h2>SKILL/JOB RECOMMENDER</h2></header>
   <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>JOBPORTAL | LOGIN</title>
      k rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-
32x32.png">
```

```
k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
    k rel="stylesheet" href="static/css/style.css">
    <link rel="stylesheet" href="style1.css">
    k rel="preconnect" href="https://fonts.gstatic.com">
    k href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
  <div class="login text-center mt-5">
    <h2> Login Form </h2>
    <form action="/login" method="post">
    <div class="msg">{{ msg }}</div>
       <input type="text" name="username" placeholder="Enter Your Username"</pre>
id="username" required></br>
       <input type="password" name="password" placeholder="Enter Your Password"</pre>
id="password" required></br>
      </br>
    <button type="submit" id="button" class="btn btn-primary"> Login </button>
    </form>
  </div>
  <div class="another"> <!--Register form -->
   Don't have an account yet? Click here to <a href="register">register! </a> 
  </div>
```





Don't have an account yet? Click here to register!



7.1.6 Register html page

```
k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
    <!-- css stylesheet -->
    k rel="stylesheet" href="static/css/style.css">
    <link rel="stylesheet" href="style1.css">
    <!-- font styles cdn -->
    k rel="preconnect" href="https://fonts.gstatic.com">
    k href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
  <!-- bootstrap navbar -->
   <!-- navbar ends -->
  <!-- Login form -->
  <div class="login text-center mt-5">
    <h2> Register Form </h2>
    <form action="/register" method="post">
    <div class="msg">{{ msg }}</div>
      <!-- <input type="text" placeholder="fullname" id="fullname"> </br>
       <input type="text" name="username" placeholder="Enter Your Username"</pre>
id="username" required></br>
       <input type="email" name="email" placeholder="Enter Your Email ID" id="email"</pre>
required></br>
       <input type="password" name="password" placeholder="Enter Your Password"
```

```
id="password" required></br>
       </br>
       </br>
     <button type="submit" id="button" class="btn btn-primary"> Register </button>
     </form>
  </div>
  <div class="another"> <!--Register form -->
   already have an account ? please <a href="/login">login! </a> 
  </div>
</body>
</html>
    C | File | C:/Users/Admin/Documents/templates/register.html
                                                                                 A* 6 6 @
                                  SKILL/JOB RECOMMENDER
                                              Register Form
                                                   {{ msg }}
                                        Enter Your Username
                                        Enter Your Email ID
                                       Enter Your Password
                                       already have an
Type here to search
7.1.7 Style sheet css page
/* // Small devices (landscape phones, 576px and up) */
@media (min-width: 576px) {
}
/* // Medium devices (tablets, 768px and up) */
@media (min-width: 768px) {
```

```
/* // Large devices (desktops, 992px anp) */
@media (min-width: 992px) {
  .header{
    padding-top:15px;
    padding-bottom:15px;
    background-color: #979ADE;
  }
  .navbar-brand{
    padding-left: 5px;
  }
  .navbar-nav {
    margin-left: 30px;
  }
  .nav-item {
    padding-left:5px;
  }
  .donate-sponsor{
    margin-right:10px;
  }
  #donate, #sponsor{
    margin:5px;
    padding: 5px 15px 5px 15px;
  .homepage-header{
    background: url('../img/group.JPG');
    background-size: cover;
    background-position: center top;
    padding: 0;
    position: relative;
    width: 100%;
    overflow: hidden;
```

```
display: -webkit-flex;
  display: -ms-flexbox;
  display: flex;
  height: 85vh;
/* our focus */
.our-focus .container {
  margin-top:3rem!important;
.our-focus .row{
  margin-top:1.5rem !important;
}
.our-focus .card {
  border: none !important;
}
.our-focus #focus-first {
  margin-right:80px;
}
.our-focus #focus-second {
  margin-right:90px;
}
/* footer */
.row-initiative {
  margin-top:10px
.site-footer {
  margin-top:30px;
  line-height:24px;
.another{
  position: absolute;
  top: 80%;
```

```
left: 50%;
     margin: -25px 0 0 -150px;
  }
  .footer-links {
     padding-left:0;
     list-style: none;
  }
  .footer-links li {
     display: block;
  }
  .footer-links.inline li {
     display: inline-block;
  }
  .footer-links li a{
     color: black;
  }
  .footer-logo img{
     width: 100px;
  }
  input {
     padding:10px 20px;
    }
}
/* // X-Large devices (large desktops, 1200px and up) */
@media (min-width: 1200px) {
  . navbar\text{-}brand \{
     padding-left: 10px;
  }
}
/* // XX-Large devices (larger desktops, 1400px and up) */
@media (min-width: 1400px) {
  .navbar-brand{
```

```
padding-left: 15px;
  }
}
7.1.8 Style sheet1 css page
@import url(https://fonts.googleapis.com/css?family=Open+Sans);
.btn {
  display: inline-block;
  *display: inline;
  *zoom: 1;
   padding: 10px 30px 10px;
  margin-bottom: 0;
  font-size: 13px;
  line-height: 18px;
  color: #333333;
  text-align: center;
  text-shadow: 0 1px 1px rgba(255, 255, 255, 0.75);
  vertical-align: middle;
  background-color: #f5f5f5;
  background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -webkit-gradient(linear, 00, 0100%, from(#ffffff), to(#e6e6e6));
  background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: linear-gradient(top, #ffffff, #e6e6e6);
  background-repeat: repeat-x;
  filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff,
endColorstr=#e6e6e6, GradientType=0);
  border-color: #e6e6e6 #e6e6e6 #e6e6e6;
  border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25);
  border: 1px solid #e6e6e6;
  -webkit-border-radius: 4px;
```

```
-moz-border-radius: 4px;
  border-radius: 4px;
  -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
  -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
  box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
  cursor: pointer; *margin-left: .3em;
  }
.btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6;
}
.btn-large {
  padding: 9px 14px;
  font-size: 15px;
  line-height: normal;
  -webkit-border-radius: 5px;
  -moz-border-radius: 5px;
  border-radius: 5px;
  }
.btn:hover {
  color: #333333;
  text-decoration: none;
  background-color: #e6e6e6;
  background-position: 0 -15px;
  -webkit-transition: background-position 0.1s linear;
  -moz-transition: background-position 0.1s linear;
  -ms-transition: background-position 0.1s linear;
  -o-transition: background-position 0.1s linear;
  transition: background-position 0.1s linear;
.btn-primary, .btn-primary:hover {
  text-shadow: 0 - 1px 0 rgba(0, 0, 0, 0.25);
  color: #ffffff;
  }
```

```
.btn-primary.active { color: rgba(255, 255, 255, 0.75);
.btn-primary {
  background-color: #4a77d4;
  background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: -ms-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#6eb6de), to(#4a77d4));
  background-image: -webkit-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: -o-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: linear-gradient(top, #6eb6de, #4a77d4);
  background-repeat: repeat-x;
  filter: progid:dximagetransform.microsoft.gradient(startColorstr=#6eb6de,
endColorstr=#4a77d4, GradientType=0);
  border: 1px solid #3762bc;
  text-shadow: 1px 1px 1px rgba(0,0,0,0.4);
  box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5);
  }
.btn-primary:hover, .btn-primary:active, .btn-primary.disabled, .btn-
primary[disabled] {
  filter: none;
  background-color: #4a77d4;
.btn-block { width: 100%; display:block; }
* { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-sizing:border-box;
-o-box-sizing:border-box; box-sizing:border-box; }
html { width: 100%; height:100%; overflow:hidden; }
body {
  width: 100%;
  height:100%;
  font-family: 'Open Sans', sans-serif;
  background: #fffff;
  color: #000000;
  font-size: 18px;
```

```
text-align:center;
  letter-spacing:1.2px;
}
.header {
       top:0;
       margin:0px;
          left: 0px;
       right: 0px;
       position: fixed;
       background: #4a77d4;
       color: #979ADE;
       box-shadow: 0px 8px 4px grey;
       overflow: hidden;
       padding: 15px;
       font-size: 1.5vw;
       width: 100%;
       text-align: center;
     }
.login {
  position: absolute;
  top: 10%;
  left: 50%;
  margin: -25px 0 0 -150px;
  width:400px;
  height:400px;
.register {
  position: absolute;
  top: 10%;
  left: 50%;
  margin: -25px 0 0 -150px;
  width:400px;
```

```
height:400px;
}
.note mt-3 text-center div {
  position: absolute;
  top: 60%;
  left: 50%;
  margin: -25px 0 0 -150px;
  width:400px;
  height:400px;
}
.header div { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px; text-
align:center; float:left; padding-left:150px;}
ul {
 list-style-type: none;
 margin: 0;
 padding: 0;
 padding-right:150px;
 overflow: hidden;
 }
li {
 float: right;
}
li a {
 display: block;
 color: white;
 text-align: center;
 padding: 0px 15px;
 text-decoration: none;
}
input {
  width: 100%;
  margin-bottom: 10px;
```

```
background: rgba(255,255,255,255);
  border: none;
  outline: none;
  padding: 10px;
  font-size: 13px;
  color: black;
  text-shadow: black;
  border: 1px solid rgba(0,0,0,0.3);
  border-radius: 4px;
  box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
  -webkit-transition: box-shadow .5s ease;
  -moz-transition: box-shadow .5s ease;
  -o-transition: box-shadow .5s ease;
  -ms-transition: box-shadow .5s ease;
  transition: box-shadow .5s ease;
}
input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px
rgba(255,255,255,0.2); }
textarea {
  width: 100%;
  margin-bottom: 10px;
  background: rgba(255,255,255,255);
  border: none;
  outline: none;
  padding: 10px;
  font-size: 13px;
  color: black:
  text-shadow: black;
  border: 1px solid rgba(0,0,0,0.3);
  border-radius: 4px;
  box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
  -webkit-transition: box-shadow .5s ease;
```

```
-moz-transition: box-shadow .5s ease;
  -o-transition: box-shadow .5s ease;
  -ms-transition: box-shadow .5s ease;
  transition: box-shadow .5s ease;
}
textarea:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px
rgba(255,255,255,0.2); }
select {
  width: 100%;
  margin-bottom: 10px;
  background: rgba(255,255,255,255);
  border: none;
  outline: none;
  padding: 10px;
  font-size: 13px;
  color: #000000;
  text-shadow: 1px 1px 1px rgba(0,0,0,0.3);
  border: 1px solid rgba(0,0,0,0.3);
  border-radius: 4px;
  box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
  -webkit-transition: box-shadow .5s ease;
  -moz-transition: box-shadow .5s ease;
  -o-transition: box-shadow .5s ease;
  -ms-transition: box-shadow .5s ease;
  transition: box-shadow .5s ease;
@import url(https://fonts.googleapis.com/css?family=Open+Sans);
.btn {
  display: inline-block;
  *display: inline;
  *zoom: 1;
   padding: 10px 30px 10px;
```

```
margin-bottom: 0;
  font-size: 13px;
  line-height: 18px;
  color: #333333;
  text-align: center;
  text-shadow: 0 1px 1px rgba(255, 255, 255, 0.75);
  vertical-align: middle;
  background-color: #f5f5f5;
  background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -webkit-gradient(linear, 00, 0100%, from(#ffffff), to(#e6e6e6));
  background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: linear-gradient(top, #ffffff, #e6e6e6);
  background-repeat: repeat-x;
  filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff,
endColorstr=#e6e6e6, GradientType=0);
  border-color: #e6e6e6 #e6e6e6 #e6e6e6;
  border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25);
  border: 1px solid #e6e6e6;
  -webkit-border-radius: 4px;
  -moz-border-radius: 4px;
  border-radius: 4px;
  -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
  -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
  box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
  cursor: pointer; *margin-left: .3em;
.btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6;
.btn-large {
  padding: 9px 14px;
```

```
font-size: 15px;
  line-height: normal;
  -webkit-border-radius: 5px;
  -moz-border-radius: 5px;
  border-radius: 5px;
  }
.btn:hover {
  color: #333333;
  text-decoration: none:
  background-color: #e6e6e6;
  background-position: 0 -15px;
  -webkit-transition: background-position 0.1s linear;
  -moz-transition: background-position 0.1s linear;
  -ms-transition: background-position 0.1s linear;
  -o-transition: background-position 0.1s linear;
  transition: background-position 0.1s linear;
  }
.btn-primary, .btn-primary:hover {
  text-shadow: 0 - 1px 0 rgba(0, 0, 0, 0.25);
  color: #ffffff;
.btn-primary.active { color: rgba(255, 255, 255, 0.75); }
.btn-primary {
  background-color: #4a77d4;
  background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: -ms-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: -webkit-gradient(linear, 00, 0100%, from(#6eb6de), to(#4a77d4));
  background-image: -webkit-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: -o-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: linear-gradient(top, #6eb6de, #4a77d4);
  background-repeat: repeat-x;
  filter: progid:dximagetransform.microsoft.gradient(startColorstr=#6eb6de,
```

```
endColorstr=#4a77d4, GradientType=0);
  border: 1px solid #3762bc;
  text-shadow: 1px 1px 1px rgba(0,0,0,0.4);
  box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5);
  }
.btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled, .btn-
primary[disabled] {
  filter: none;
  background-color: #4a77d4;
  }
.btn-block { width: 100%; display:block; }
* { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-sizing:border-box;
-o-box-sizing:border-box; box-sizing:border-box; }
html { width: 100%; height:100%; overflow:hidden; }
body {
  width: 100%;
  height:100%;
  font-family: 'Open Sans', sans-serif;
  background: #fffff;
  color: #000000;
  font-size: 18px;
  text-align:center;
  letter-spacing:1.2px;
.header {
       top:0;
       margin:0px;
           left: 0px;
       right: 0px;
       position: fixed;
       background: #4a77d4;
       color: #979ADE;
```

```
box-shadow: 0px 8px 4px grey;
       overflow: hidden;
       padding: 15px;
       font-size: 1.5vw;
       width: 100%;
       text-align: center;
     }
.login {
  position: absolute;
  top: 10%;
  left: 50%;
  margin: -25px 0 0 -150px;
  width:400px;
  height:400px;
}
.register {
  position: absolute;
  top: 10%;
  left: 50%;
  margin: -25px 0 0 -150px;
  width:400px;
  height:400px;
.note mt-3 text-center div {
  position: absolute;
  top: 60%;
  left: 50%;
  margin: -25px 0 0 -150px;
  width:400px;
  height:400px;
}
.header div { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px; text-
```

```
align:center; float:left; padding-left:150px;}
ul {
 list-style-type: none;
 margin: 0;
 padding: 0;
 padding-right:150px;
 overflow: hidden;
 }
li {
 float: right;
}
li a {
 display: block;
 color: white;
 text-align: center;
 padding: 0px 15px;
 text-decoration: none;
}
input {
  width: 100%;
  margin-bottom: 10px;
  background: rgba(255,255,255,255);
  border: none;
  outline: none;
  padding: 10px;
  font-size: 13px;
  color: black;
  text-shadow: black;
  border: 1px solid rgba(0,0,0,0.3);
  border-radius: 4px;
  box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
  -webkit-transition: box-shadow .5s ease;
```

```
-moz-transition: box-shadow .5s ease;
  -o-transition: box-shadow .5s ease;
  -ms-transition: box-shadow .5s ease;
  transition: box-shadow .5s ease;
}
input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px
rgba(255,255,255,0.2); }
textarea {
  width: 100%;
  margin-bottom: 10px;
  background: rgba(255,255,255,255);
  border: none;
  outline: none;
  padding: 10px;
  font-size: 13px;
  color: black;
  text-shadow: black;
  border: 1px solid rgba(0,0,0,0.3);
  border-radius: 4px;
  box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
  -webkit-transition: box-shadow .5s ease;
  -moz-transition: box-shadow .5s ease;
  -o-transition: box-shadow .5s ease;
  -ms-transition: box-shadow .5s ease;
  transition: box-shadow .5s ease;
}
textarea:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px
rgba(255,255,255,0.2); }
select {
  width: 100%;
  margin-bottom: 10px;
  background: rgba(255,255,255,255);
```

```
border: none;
  outline: none;
  padding: 10px;
  font-size: 13px;
  color: #000000;
  text-shadow: 1px 1px 1px rgba(0,0,0,0.3);
  border: 1px solid rgba(0,0,0,0.3);
  border-radius: 4px;
  box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
  -webkit-transition: box-shadow .5s ease;
  -moz-transition: box-shadow .5s ease;
  -o-transition: box-shadow .5s ease;
  -ms-transition: box-shadow .5s ease;
  transition: box-shadow .5s ease;
}
7.2 Feature 2
7.2.1 App.py
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
app = Flask(\_name\_)
app.secret_key = 'a'
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=3883e7e4-18f5-4afe-be8c-
fa31c41761d2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31498;SECURITY
=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=sch83401;PWD=j7QZUHGAt
UGbPhns",",")
@app.route('/')
def homer():
  return render_template('home.html')
@app.route('/login',methods =['GET', 'POST'])
def login():
```

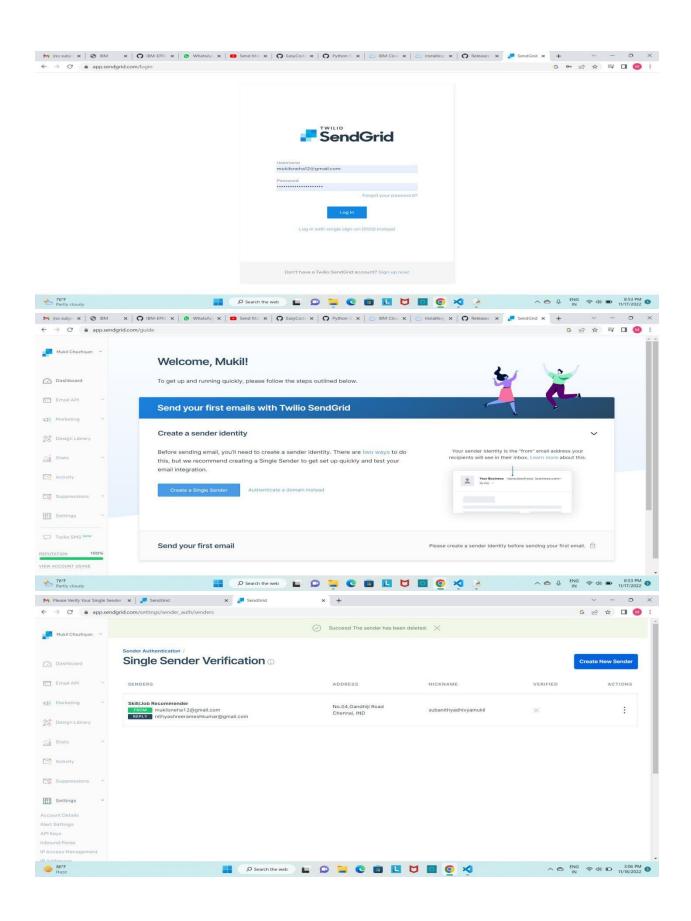
```
global userid
  msg = "
  if request.method == 'POST':
    username = request.form['username']
    password = request.form['password']
    sql = "SELECT * FROM users WHERE username =? AND password=?"
    stmt = ibm_db.prepare(conn, sql)
    ibm db.bind param(stmt,1,username)
    ibm_db.bind_param(stmt,2,password)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print (account)
    if
                       account:
      session['loggedin'] = True
      session['id'] = account['USERNAME']
      userid= account['USERNAME']
      session['username'] = account['USERNAME']
      msg = 'Logged in successfully!'
      msg = 'Logged in successfully!'
      return render_template('dashboard.html', msg = msg)
    else:
      msg = 'Incorrect username / password !'
  return render_template('login.html', msg = msg)
@app.route('/register', methods =['GET', 'POST'])
def registet():
  msg = "
  if request.method == 'POST':
    username = request.form['username']
    email = request.form['email']
    password = request.form['password']
    sql = "SELECT * FROM job WHERE username =?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,username)
    ibm_db.execute(stmt)
    account = ibm db.fetch assoc(stmt)
    print(account)
```

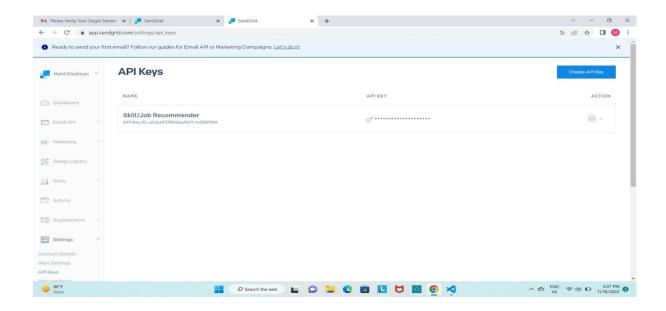
```
if account:
       msg = 'Account already exists!'
    elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
       msg = 'Invalid email address!'
    elif not re.match(r'[A-Za-z0-9]+', username):
       msg = 'name must contain only characters and numbers!'
    else:
      insert_sql = "INSERT INTO users VALUES (?, ?, ?)"
      prep_stmt = ibm_db.prepare(conn, insert_sql)
      ibm_db.bind_param(prep_stmt, 1, username)
      ibm_db.bind_param(prep_stmt, 2, email)
      ibm_db.bind_param(prep_stmt, 3, password)
      ibm_db.execute(prep_stmt)
      msg = 'You have successfully registered!'
  elif request.method == 'POST':
    msg = 'Please fill out the form!'
  return render_template('register.html', msg = msg)
@app.route('/dashboard')
def dash():
  return render_template('dashboard.html')
@app.route('/apply',methods =['GET', 'POST'])
def apply():
  msg = "
  if request.method == 'POST':
     username = request.form['username']
     email = request.form['email']
     qualification= request.form['qualification']
     skills = request.form['skills']
     jobs = request.form['s']
     sql = "SELECT * FROM users WHERE username =?"
     stmt = ibm_db.prepare(conn, sql)
     ibm_db.bind_param(stmt,1,username)
     ibm_db.execute(stmt)
     account = ibm db.fetch assoc(stmt)
     print(account)
```

```
if account:
       msg = 'there is only 1 job position! for you'
       return render_template('apply.html', msg = msg)
     insert_sql = "INSERT INTO job VALUES (?, ?, ?, ?, ?)"
     prep_stmt = ibm_db.prepare(conn, insert_sql)
     ibm_db.bind_param(prep_stmt, 1, username)
     ibm_db.bind_param(prep_stmt, 2, email)
     ibm_db.bind_param(prep_stmt, 3, qualification)
     ibm_db.bind_param(prep_stmt, 4, skills)
     ibm_db.bind_param(prep_stmt, 5, jobs)
     ibm_db.execute(prep_stmt)
   elif request.method == 'POST':
     msg = 'Please fill out the form!'
   return render_template('apply.html', msg = msg)
@app.route('/display')
def display():
  print(session["username"],session['id'])
  cursor = mysql.connection.cursor()
  cursor.execute('SELECT * FROM job WHERE userid = % s', (session['id'],))
  account = cursor.fetchone()
  print("accountdislay",account)
  return render_template('display.html',account = account)
@app.route('/logout')
def logout():
 session.pop('loggedin', None)
 session.pop('id', None)
 session.pop('username', None)
 return render_template('home.html')
if __name__ == '_main_':
 app.run(host='0.0.0.0',port=8080)
```

7.2.2 Intergrating sendgrid with python code

```
import smtplib
import sendgrid
import os
from sendgrid.helpers.mail import Mail, Email, To, Content
SUBJECT = "Interview Call"
s = smtplib.SMTP('smtp.gmail.com', 587)
def sendmail(TEXT,email):
  print("sorry we cant process your candidature")
  s = smtplib.SMTP('smtp.gmail.com', 587)
  s.starttls()
  s.login("mukilsneha12@gmail.com", "mukilsendgridaccount")
  message = 'Subject: {}\n\n{}'.format(SUBJECT, TEXT)
  s.sendmail("mukilsneha12@gmail.com", email, message)
  s.quit()
def sendgridmail(user,TEXT):
  sg = sendgrid.SendGridAPIClient('SG.atzbAf29RVeuAWT-
m0BPWA.7tTSm61FY47S9pXiFSt-h-feo6Oi_DhAFPIidg92mn0')
  from_email = Email("mukilsneha12@gmail.com") # Change to your verified sender
  to_email = To(user) # Change to your recipient
  subject = "You have received a call for"
  content = Content("Check more for further details",TEXT)
  mail = Mail(from email, to email, subject, content)
  # Get a JSON-ready representation of the Mail object
  mail_json = mail.get()
  # Send an HTTP POST request to /mail/send
  response = sg.client.mail.send.post(request_body=mail_json)
  print(response.status_code)
  print(response.headers)
```





7.2.3 ChatBot

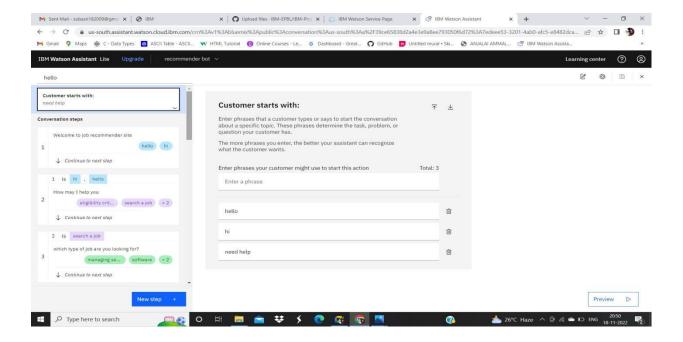
Chatboturl:

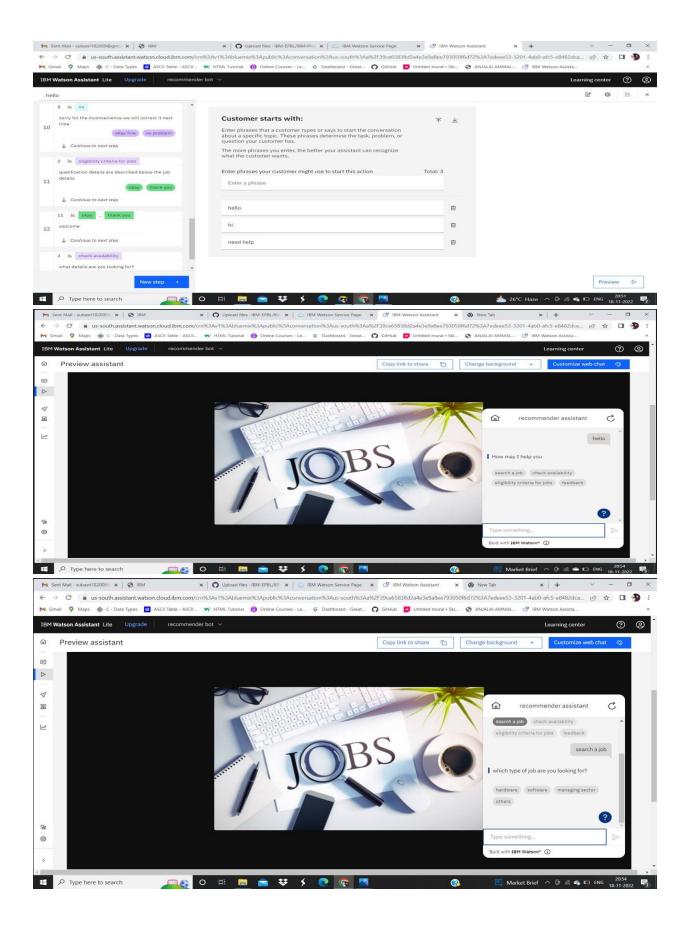
https://web-

<u>chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageURL=https%3A%2</u>
<u>F%2Fus-</u> <u>south.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-7edeee53-3201-4ab0-afc5-</u>

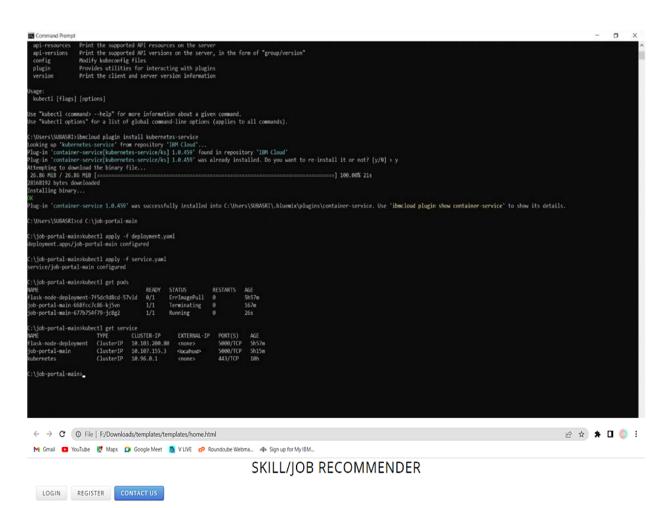
e8482dcaab3f%3A%3Ab279a216-7162-411f-9210-

ee1ce0532bd9&integrationID=b9577b7a-aa8a-4fb6-bc1e-d760ebebf295®ion=us-south&serviceInstanceID=7edeee53-3201-4ab0-afc5-e8482dcaab3f





7.2.4 Deploy in kubernetes cluster



Aboutus

Mission

This is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry - level engineers, for the corporate world.

Vision

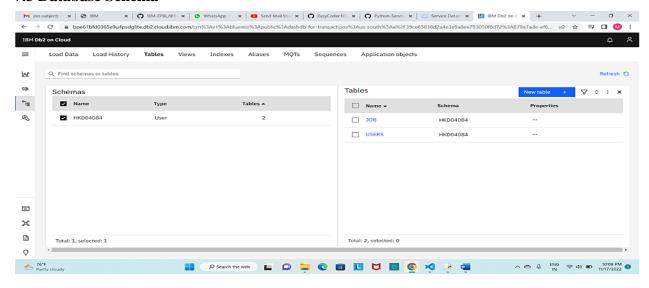
Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. This offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.

Objective

Well directed career guidance programs for educational institutions Appropriate certification courses that suit the industry need Train the trainers; expanded awareness about the current industry standards Liaise with corporates to offer niche internships Establish technology development centers in colleges Specialised incubation centers in collaboration with corporates.

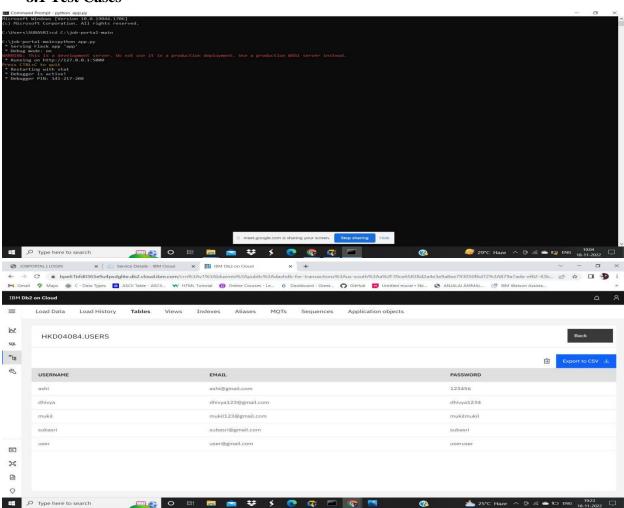


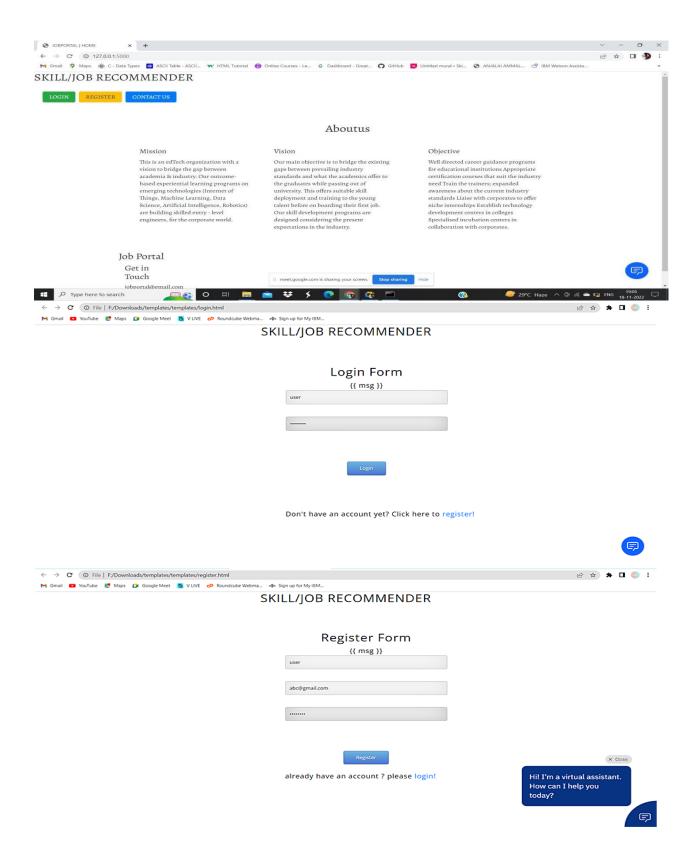
7.3 Database Schema

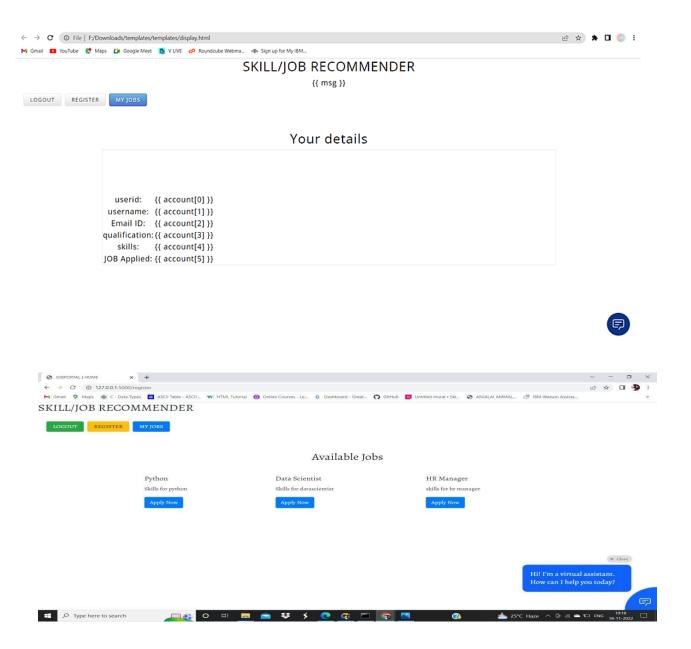


8. TESTING

8.1 Test Cases







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 Skill/Job Recommender project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

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	8	4	2	3	17	
Duplicate	1	0	3	О	4	
External	2	2	0	1	5	
Fixed	10	2	4	20	36	
Not Reproduced	0	0	1	О	1	
Skipped	0	0	1	1	2	
Won't Fix	0	5	2	1	8	
Totals	21	13	13	26	73	

3. Test Case Analysis

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

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	7	О	0	7
Client Application	51	0	0	51
Security	2	0	0	2
Outsource Shipping	3	О	О	3
Exception Reporting	9	0	0	9
Final Report Output	4	0	О	4
Version Control	2	0	0	2

Component	Test Scenario	Pre-Requisite	Steps To Execute	Test Data	Expected Result	Actual Result	Statu	Commnets
Home Page	Verify: user is able to create the account	Laptop,IBM cloud account	1.Enter URL and click go 2.Click on Register button 3.Enter the user details and click login	https://drive.google.com /file/d/1Hb5zzeMmlXYhA 035crlybl- 17aAAutwt/view?usp=sh aring		Working as expected	Pass	steps are clear to followed
Home Page	Verify the UI elements ans sign in	Laptop,IBM cloud account	1.Enter URL and click go 2.Click on login button 3.Verify with below UI elements: a.username text box b.password text box c.Login button d.Don't have an account yet?	https://drive.google.com /file/d/1K30laJ- uzhNfkrMtUC6wHXKNq5T bQ8SN/view?usp=sharin g	Application should show below UI elements: a.email text box b.password text box c.Login button with orange colour d.Don't have an account yet?Click here to register	Working as expected	Pass	Steps are clear to follow
Home page Verify user is able to log into application Valid credentials		Laptop,IBM cloud account	1.Enter URL and click go 2.Click on login button 3.Enter Valid username/email in username text box 4.Enter valid password in password text box 5.Click on login button	Username: user1 password: testinguser1	User should navigate to user account homepage	Working as expected	Pass	Steps are clear to follow
		mannan mano						
Component						Actual	Statu	
Component	Test Scenario	Pre-Requisite	Steps To Execute	Test Data	Expected Result	Result	Statu	Commnets
Login page	Test Scenario Verify user is able to log into application with inValid credentials	Pre-Requisite Laptop,IBM cloud account	Steps To Execute 1.Enter URL and click go 2.Click on login button 3.Enter InValid username in username text box 4.Enter valid password in password text box 5.Click on login button	Test Data Username: user password: testinguser1	Expected Result Application should not navigate to homepage		S	Steps are clear to follow
· ·	Verify user is able to log into application with	·	1.Enter URL and click go 2.Click on login button 3.Enter InValid username in username text box 4.Enter valid password in password text box	Username: user	Application should not	Result Working as	Pass	Steps are clear to

9. RESULTS

9.1 Performance Metrics

NFR-1	Usability	This application can be used by the job seekers to login and search for the jobs
NFR-2	Security	This application is secure with the personalised Login credentials
NFR-3	Reliability	This application is trustworthy which provides good job offers and suggestions of skillset with real time notifications
NFR-4	Performance	The performance of the application is quicker responses to search of job seeker
NFR-5	Availability	This application provides job offers and skillset with user's preference
NFR-6	Scalability	The response time of the application is quite faster with user choice

					-				
_	NFT - Risk Assessment								
S.No	Project Name	Scope/feature	Functional Changes	Hardware Changes	Software Changes	Impact of Downtime	Load/Volume Changes	Risk Score	Justification
:	Skill/job recommend	New	Moderate	No Changes	Low	None	>5 to 10%	GREEN	User can able to interact with application through Chatbot(Watson assistant)
_ :	Skill/job recommend	New	High	No Changes	Moderate	None	>10 to 30%	ORANGE	User can send queries through email via sendgrid
								1	
_								1	
					-		 		
					NFT - Detailed T	est Plan			
			S.No	Project Overview	NFT Test approach	umptions/Dependencies/R	Approvals/SignOff		
			1	skill/job recommender					
					1				
			End Of Test Report						
							Identified Defects		
S.No	Project Overview	NFT Test approach	NFR - Met	Test Outcome	GO/NO-GO decision	Recommendations	(Detected/Closed/Open)	Approvals/SignOff	

10. ADVANTAGES & DISADVANTAGES

10.1 Advantages

- ♦ Adaptive system
- ♦ Use many attributes
- ♦ Use ontology to categorize jobs and as a knowledge base to define features
- ♦ Various information retrival techniques are used
- ♦ Effective matching methods

10.2 Disadvantages

- ♦ Key word search method
- ♦ One way recommendation
- ♦ Knowledge acquistion and knowledge engineering problems
- ♦ No relational aspects are included

11. CONCLUSION

We have seen from our literature review and from from the challenges that faced the holistic e-recruiting platforms, an increased need for enhancing the quality of candidates / job matching. The recommender system technologies accomplished significant success in a broad range of applications and potentially a powerful searching and recommending techniques.

12. FUTURE SCOPE

In conclusion, Next level's approach is novel and offers several advantages over prior job/skill recommendation systems. This approach turns a simple skill/job recommender into a discovery tool for both relevant skill and jobs. It empowers the users to make informed decisions about their job related plans and to discover exactly what is expected from them to get the job of their dreams.

13. APPENDIX

1. INTRODUCTION

- 1.1 Project Overview
- 1.2Purpose

2. LITERATURE SURVEY

- 2.1Existing problem
- 2.2References
- 2.3Problem Statement Definition

3. IDEATION & PROPOSED SOLUTION

- 3.1 Empathy Map Canvas
- 3.2Ideation & Brainstorming
- 3.3Proposed Solution
- 3.4Problem Solution fit

4. REQUIREMENT ANALYSIS

- 4.1 Functional requirement
- 4.2Non-Functional requirements

5. PROJECT DESIGN

- 5.1 Data Flow Diagrams
- 5.2 Solution & Technical Architecture
- 5.3User Stories

6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

- 6.2 Sprint Delivery Schedule
- 6.3Reports from JIRA

7. CODING & SOLUTIONING (Explain the features added in the project along with code)

- 7.1 Feature 1
 - 7.1.1 Apply html page
 - 7.1.2Dashboard html page
 - 7.1.3Display html page
 - 7.1.4Home html page
 - 7.1.5Login html page
 - 7.1.6Register html page
 - 7.1.7Style sheet
 - 7.1.8Style sheet 1
- 7.2 Feature 2
 - 7.2.1 App.py
 - 7.2.2 Intergrating sendgrid with python code
 - 7.2.3ChatBot
 - 7.2.4Deploy in kubernetes cluster
- 7.3Database Schema (if Applicable)

8. TESTING

- 8.1 Test Cases
- 8.2 User Acceptance Testing

9. RESULTS

9.1 Performance Metrics

10. ADVANTAGES & DISADVANTAGES

- 10.1 Advantages
- 10.2Disadvantages
- 11. CONCLUSION
- 12. FUTURE SCOPE

13. APPENDIX

Source Code

GitHub & Project Demo Link

Source Code

```
apply.html
<!DOCTYPE html>
<html lang="en">
<head>
<header>
<h2>SKILL/JOB RECOMMENDER</h2></header>
<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>JOBPORTAL | APPLY</title>
<!-- favicon -->
<!--<li>k rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
<!--<li>k rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
k rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-32x32.png">
<!-- bootstrap csscdn -->
k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
k rel="stylesheet" href="static/css/style.css">
<link rel="stylesheet" href="style1.css">
<!-- font styles cdn -->
k rel="preconnect" href="https://fonts.gstatic.com">
k href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
k href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
```

```
<body>
<!-- bootstrap navbar -->
<div class="logo mt-3 text-center">
</div>
<!-- navbar ends -->
<!-- Login form -->
<div class="login text-center mt-5">
<h2>Apply Now</h2>
<div class="msg">{{ msg }}</div>
<form action="/apply" method="post" class="mt-3">
<!--<input type="text" placeholder="fullname" id="fullname"></br>
<input type="text" name="username" placeholder="Enter Your Username" id="username"
required></br>
<input type="email" name="email" placeholder="Enter Your email" id="email"
required></br></br>
<input type="text" name="qualification" placeholder="Enter Your Qualification"</pre>
id="qualification" required></br>
<input type="text" name="skills" placeholder="Enter Your skills" id="skills"
required></br>
<select name ="s">
<option value ="PYTHON"> Python
<option value ="ML"> ML</option>
<option value ="AI"> AI</option>
</select>
</br>
<button type="submit" id="button" class="btnbtn-primary"> Submit</button>
</form>
</div>
<div class="note mt-3 text-center">
click here to go to dashboard <a href="dashboard">Dashboard! </a>
</div>
</body>
```

```
</html>
```

dashboard.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<header>
<h2>SKILL/JOB RECOMMENDER</h2></header>
<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>JOBPORTAL | HOME</title>
<meta charset="UTF-8">
<!-- favicon -->
<!--<li>k rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
<!--<li>k rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
k rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-32x32.png">
<!-- bootstrap csscdn -->
link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
k rel="stylesheet" href="static/css/style.css">
<link rel="stylesheet" href="style1.css">
<!-- font styles cdn -->
k rel="preconnect" href="https://fonts.gstatic.com">
k href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
k href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
```

```
rel="stylesheet">
</head>
<body>
<!-- bootstrap navbar -->
<nav class="navbar sticky-top navbar-expand-lg navbar-light">
<div class="container-fluid">
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="row donate-sponsor">
<a type="button" class="btnbtn-success mr-1" id="donate" href="/logout">LOGOUT</a>
<a type="button" class="btnbtn-warning mr-1" id="sponsor"
href="register">REGISTER</a>
<a type="button" class="btnbtn-primary mr-1" id="sponsor" href="display">MY JOBS</a>
</div>
</div>
</nav>
<!-- navbar ends -->
<!-- what we focus on -->
<section class="our-focus">
<div class="container">
<h2 class="text-center mt-3">Available Jobs</h2>
<div class="row ml-3 mt-3">
<div class="col-lg-3 mr-5" id="focus-first">
<div class="card" style="width: 19rem;">
<!--<imgsrc="assets/img/home kids.jpg" class="card-img-top" alt="..."> -->
<div class="card-body">
<h5 class="card-title">Python</h5>
Skills for python
```

```
<a href="apply" class="btnbtn-primary">Apply Now</a>
</div>
</div>
</div>
<div class="col-lg-3 mr-5" id="focus-second">
<div class="card" style="width: 20rem;">
<!--<imgsrc="assets/img/friendship day.JPG" class="card-img-top" alt="...">-->
<div class="card-body">
<h5 class="card-title">Data Scientist</h5>
Skills for datascientist
<a href="apply" class="btnbtn-primary">Apply Now</a>
</div>
</div>
</div>
<div class="col-lg-3 ml-5" id="focus-third">
<div class="card" style="width: 20rem;">
<!--<imgsrc="assets/img/health camp.jpg" class="card-img-top" alt="..."> -->
<div class="card-body">
<h5 class="card-title">HR Manager</h5>
skills for hr manager
<a href="apply" class="btnbtn-primary">Apply Now</a>
</div>
</div>
</div>
</div>
</div>
</section>
<!-- footer starts -->
<!-- Site footer -->
</body>
</html>
```

display.html

```
<!DOCTYPE html>
   <html lang="en">
   <head>
   <header>
   <h2>SKILL/JOB RECOMMENDER</h2></header>
   <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>JOBPORTAL | HOME</title>
   <div class="msg">{{ msg }}</div>
   <meta charset="UTF-8">
   <!-- favicon -->
   <!--<li>rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
   <!--<li>k rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
   k rel="icon" type="/image/png" sizes="16x16" href="/assets/img/favicon-32x32.png">
   <!-- bootstrap csscdn -->
   k rel="stylesheet"
   href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
   integrity="sha384-
   JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
   crossorigin="anonymous">
   k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
   awesome/4.7.0/css/font-awesome.css">
   <!--css stylesheet -->
   k rel="stylesheet" href="static/css/style.css">
   <link rel="stylesheet" href="style1.css">
   <!-- font styles cdn -->
   k rel="preconnect" href="https://fonts.gstatic.com">
   k href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
   rel="stylesheet">
   k href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
   rel="stylesheet">
```

```
</head>
<body>
<!-- bootstrap navbar -->
<nav class="navbar sticky-top navbar-expand-lg navbar-light">
<div class="container-fluid">
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="row donate-sponsor">
<a type="button" class="btnbtn-success mr-1" id="donate" href="/logout">LOGOUT</a>
<a type="button" class="btnbtn-warning mr-1" id="sponsor"
href="register">REGISTER</a>
<a type="button" class="btnbtn-primary mr-1" id="sponsor" href="display">MY JOBS</a>
</div>
</div>
</nav>
<!-- navbar ends -->
<!-- what we focus on -->
<section class="our-focus">
<div class="container">
<h2 class="text-center mt-3">Your details</h2>
<div class="border">
</br></br></br>
userid:
{{ account[0] }}
username:
{{ account[1] }}
```

```
Email ID:
  {{ account[2] }}
  qualification:
  {{ account[3] }}
  skills:
  {{ account[4] }}
  JOB Applied:
  {{ account[5] }}
  </section>
  </body>
  </html>
home.html
  <!DOCTYPE html>
  <html lang="en">
  <head>
  <header>
  <h2>SKILL/JOB RECOMMENDER</h2></header>
  <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>JOBPORTAL | HOME</title>
  <meta charset="UTF-8">
```

```
<!-- favicon -->
<!--<li>rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
<!--<li>k rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
k rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-32x32.png">
<!-- bootstrap csscdn -->
<link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
k rel="stylesheet" href="static/css/style.css">
<link rel="stylesheet" href="style1.css">
<!-- font styles cdn -->
k rel="preconnect" href="https://fonts.gstatic.com">
k href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
k href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
<!-- bootstrap navbar -->
<nav class="navbar sticky-top navbar-expand-lg navbar-dark">
<div class="container-fluid">
<div class="row donate-sponsor">
<a type="button" class="btnbtn-success mr-1" id="donate" href="login">LOGIN</a>
<a type="button" class="btnbtn-warning mr-1" id="sponsor"
href="register">REGISTER</a>
<a type="button" class="btnbtn-primary mr-1" id="sponsor"
href="contact.html">CONTACT US</a>
```

```
</div>
</div>
</nav>
<!-- navbar ends -->
<!-- what we focus on -->
<section class="our-focus">
<div class="container">
<h2 class="text-center mt-3">Aboutus</h2>
<div class="row ml-3 mt-3">
<div class="col-lg-3 mr-5" id="focus-first">
<div class="card" style="width: 19rem;">
<!--<imgsrc="assets/img/home kids.jpg" class="card-img-top" alt="..."> -->
<div class="card-body">
<h5 class="card-title">Mission</h5>
This is an edTech organization with a vision to bridge the gap between
academia & industry. Our outcome-based experiential learning programs on emerging
technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence,
Robotics) are building skilled entry - level engineers, for the corporate world.
</div>
</div>
</div>
<div class="col-lg-3 mr-5" id="focus-second">
<div class="card" style="width: 20rem;">
<!--<imgsrc="assets/img/friendship day.JPG" class="card-img-top" alt="..."> -->
<div class="card-body">
<h5 class="card-title">Vision</h5>
Our main objective is to bridge the existing gaps between prevailing
industry standards and what the academics offer to the graduates while passing out of
university. This offers suitable skill deployment and training to the young talent before on
boarding their first job.
```

```
Our skill development programs are designed considering the present expectations in the
industry. 
</div>
</div>
</div>
<div class="col-lg-3 ml-5" id="focus-third">
<div class="card" style="width: 20rem;">
<!--<imgsrc="assets/img/health camp.jpg" class="card-img-top" alt="..."> -->
<div class="card-body">
<h5 class="card-title">Objective</h5>
Well directed career guidance programs for educational institutions
Appropriate certification courses that suit the industry need
Train the trainers; expanded awareness about the current industry standards
Liaise with corporates to offer niche internships
Establish technology development centers in colleges
Specialised incubation centers in collaboration with corporates.
</div>
</div>
</div>
</div>
</div>
</section>
<!-- focus section ends -->
<!-- footer starts -->
<!-- Site footer -->
<footer class="site-footer">
<div class="container mt-5">
<div class="row">
<div class="col-sm-12 col-md-6">
<h3>JobPortal</h3>
<div class="col-xs-6 col-md-3">
<h4>Get in Touch</h4>
```

```
<a href="mailto:test@gmail.com">jobportal@gmail.com</a>
   <a href="">+91 8977787657</a>
   </div>
   </div>
   <hr>
   </div>
   </div>
   </footer>
   </body>
   </html>
login.html
   <!DOCTYPE html>
   <html lang="en">
   <head>
   <header>
   <h2>SKILL/JOB RECOMMENDER</h2></header>
   <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>JOBPORTAL | LOGIN</title>
   k rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-32x32.png">
   link rel="stylesheet"
   href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
   integrity="sha384-
   JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
   crossorigin="anonymous">
   k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
   awesome/4.7.0/css/font-awesome.css">
   k rel="stylesheet" href="static/css/style.css">
   <link rel="stylesheet" href="style1.css">
```

```
k rel="preconnect" href="https://fonts.gstatic.com">
   k href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
   rel="stylesheet">
   k href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
   rel="stylesheet">
   </head>
   <body>
   <div class="login text-center mt-5">
   <h2> Login Form </h2>
   <form action="/login" method="post">
   <div class="msg">{{ msg }}</div>
   <input type="text" name="username" placeholder="Enter Your Username" id="username"
   required></br></br>
   <input type="password" name="password" placeholder="Enter Your Password"</pre>
   id="password" required></br>
   </br>
   <button type="submit" id="button" class="btnbtn-primary"> Login </button>
   </form>
   </div>
   <div class="another"><!--Register form -->
    Don't have an account yet? Click here to <a href="register">register! </a>
   </div>
   </body>
   </html>
register.html
   <!DOCTYPE html>
   <html lang="en">
   <head>
   <header>
   <h2>SKILL/JOB RECOMMENDER</h2></header>
   <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>JOBPORTAL | LOGIN</title>
<!-- favicon -->
<!--<li>rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
<!--<li>k rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
k rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-32x32.png">
<!-- bootstrap csscdn -->
link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
k rel="stylesheet" href="static/css/style.css">
<link rel="stylesheet" href="style1.css">
<!-- font styles cdn -->
k rel="preconnect" href="https://fonts.gstatic.com">
k href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
k href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
<!-- bootstrap navbar -->
<!-- navbar ends -->
<!-- Login form -->
<div class="login text-center mt-5">
<h2> Register Form </h2>
<form action="/register" method="post">
```

```
<div class="msg">{{ msg }}</div>
<!--<input type="text" placeholder="fullname" id="fullname"></br>
<input type="text" name="username" placeholder="Enter Your Username" id="username"
required></br>
<input type="email" name="email" placeholder="Enter Your Email ID" id="email"</pre>
required></br></br>
<input type="password" name="password" placeholder="Enter Your Password"</pre>
id="password" required></br>
</br>
</br>
<button type="submit" id="button" class="btnbtn-primary"> Register </button>
</form>
</div>
<div class="another"><!--Register form -->
 already have an account ? please <a href="/login">login! </a>
</div>
</body>
</html>
style.css
/* // Small devices (landscape phones, 576px and up) */
@media (min-width: 576px) {
/* // Medium devices (tablets, 768px and up) */
@media (min-width: 768px) {
/* // Large devices (desktops, 992px anp) */
@media (min-width: 992px) {
.header{
    padding-top:15px;
    padding-bottom:15px;
    background-color: #979ADE;
```

```
.navbar-brand{
    padding-left: 5px;
  }
.navbar-nav {
    margin-left: 30px;
  .nav-item {
    padding-left:5px;
.donate-sponsor{
    margin-right:10px;
  #donate, #sponsor{
    margin:5px;
    padding: 5px 15px 5px 15px;
  }
.homepage-header{
    background: url('../img/group.JPG');
    background-size: cover;
    background-position: center top;
    padding: 0;
    position: relative;
    width: 100%;
    overflow: hidden;
    display: -webkit-flex;
    display: -ms-flexbox;
    display: flex;
    height: 85vh;
  /* our focus */
.our-focus .container {
```

```
margin-top:3rem!important;
  }
.our-focus .row{
    margin-top:1.5rem !important;
  }
.our-focus .card {
    border: none !important;
  }
.our-focus #focus-first {
    margin-right:80px;
.our-focus #focus-second {
    margin-right:90px;
  /* footer */
.row-initiative {
    margin-top:10px
  }
.site-footer {
    margin-top:30px;
    line-height:24px;
.another{
    position: absolute;
    top: 80%;
    left: 50%;
    margin: -25px 0 0 -150px;
.footer-links {
    padding-left:0;
    list-style: none;
  }
```

```
.footer-links li {
     display: block;
  }
.footer-links.inline li {
    display: inline-block;
  }
.footer-links li a{
color: black;
  }
.footer-logo img{
    width: 100px;
  }
  input {
    padding:10px 20px;
   }
}
/* // X-Large devices (large desktops, 1200px and up) */
@media (min-width: 1200px) {
.navbar-brand{
    padding-left: 10px;
  }
/* // XX-Large devices (larger desktops, 1400px and up) */
@media (min-width: 1400px) {
.navbar-brand{
    padding-left: 15px;
  }
}
style1.css
@importurl(https://fonts.googleapis.com/css?family=Open+Sans);
.btn {
```

```
display: inline-block;
  *display: inline;
  *zoom: 1;
   padding: 10px 30px 10px;
  margin-bottom: 0;
  font-size: 13px;
  line-height: 18px;
color: #333333;
  text-align: center;
  text-shadow: 0 1px 1pxrgba(255, 255, 255, 0.75);
  vertical-align: middle;
  background-color: #f5f5f5;
  background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -webkit-gradient(linear, 00, 0100%, from(#ffffff), to(#e6e6e6));
  background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: linear-gradient(top, #ffffff, #e6e6e6);
  background-repeat: repeat-x;
  filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff,
endColorstr=#e6e6e6, GradientType=0);
  border-color: #e6e6e6 #e6e6e6 #e6e6e6;
  border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25);
  border: 1px solid #e6e6e6;
  -webkit-border-radius: 4px;
  -moz-border-radius: 4px;
  border-radius: 4px;
  -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
  -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
  box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
  cursor: pointer; *margin-left: .3em;
  }
```

```
.btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6;
}
.btn-large {
  padding: 9px 14px;
  font-size: 15px;
  line-height: normal;
  -webkit-border-radius: 5px;
  -moz-border-radius: 5px;
  border-radius: 5px;
  }
.btn:hover {
color: #333333;
  text-decoration: none;
  background-color: #e6e6e6;
  background-position: 0 -15px;
  -webkit-transition: background-position 0.1s linear;
  -moz-transition: background-position 0.1s linear;
  -ms-transition: background-position 0.1s linear;
  -o-transition: background-position 0.1s linear;
  transition: background-position 0.1s linear;
.btn-primary, .btn-primary:hover {
  text-shadow: 0 - 1px 0 rgba(0, 0, 0, 0.25);
color: #ffffff:
.btn-primary.active { color: rgba(255, 255, 255, 0.75);
.btn-primary {
  background-color: #4a77d4;
  background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: -ms-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: -webkit-gradient(linear, 00, 0100%, from(#6eb6de), to(#4a77d4));
  background-image: -webkit-linear-gradient(top, #6eb6de, #4a77d4);
```

```
background-image: -o-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: linear-gradient(top, #6eb6de, #4a77d4);
  background-repeat: repeat-x;
  filter: progid:dximagetransform.microsoft.gradient(startColorstr=#6eb6de,
endColorstr=#4a77d4, GradientType=0);
  border: 1px solid #3762bc;
  text-shadow: 1px 1px1pxrgba(0,0,0,0.4);
  box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5);
  }
.btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled, .btn-
primary[disabled] {
  filter: none;
  background-color: #4a77d4;
  }
.btn-block { width: 100%; display:block; }
* { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-sizing:border-box;
-o-box-sizing:border-box; box-sizing:border-box; }
html { width: 100%; height:100%; overflow:hidden; }
body {
  width: 100%;
  height:100%;
  font-family: 'Open Sans', sans-serif;
  background: #fffff;
color: #000000;
  font-size: 18px;
text-align:center;
  letter-spacing:1.2px;
.header {
       top:0;
       margin:0px;
           left: 0px;
```

```
right: 0px;
       position: fixed;
       background: #4a77d4;
color: #979ADE;
       box-shadow: 0px 8px 4px grey;
       overflow: hidden;
       padding: 15px;
       font-size: 1.5vw;
       width: 100%;
       text-align: center;
     }
.login {
  position: absolute;
  top: 10%;
  left: 50%;
  margin: -25px 0 0 -150px;
  width:400px;
  height:400px;
}
.register {
  position: absolute;
  top: 10%;
  left: 50%;
  margin: -25px 0 0 -150px;
  width:400px;
  height:400px;
}
.note mt-3 text-center div {
  position: absolute;
  top: 60%;
  left: 50%;
  margin: -25px 0 0 -150px;
```

```
width:400px;
  height:400px;
}
.header div { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px; text-
align:center; float:left; padding-left:150px;}
ul {
 list-style-type: none;
 margin: 0;
 padding: 0;
 padding-right:150px;
 overflow: hidden;
 }
li {
 float: right;
}
li a {
 display: block;
color: white;
 text-align: center;
 padding: 0px 15px;
 text-decoration: none;
input {
  width: 100%;
  margin-bottom: 10px;
  background: rgba(255,255,255,255);
  border: none;
  outline: none;
  padding: 10px;
  font-size: 13px;
color: black;
  text-shadow: black;
```

```
border: 1px solid rgba(0,0,0,0.3);
  border-radius: 4px;
  box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1pxrgba(255,255,255,0.2);
  -webkit-transition: box-shadow .5s ease;
  -moz-transition: box-shadow .5s ease;
  -o-transition: box-shadow .5s ease;
  -ms-transition: box-shadow .5s ease;
  transition: box-shadow .5s ease;
}
input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px
1pxrgba(255,255,255,0.2); }
textarea {
  width: 100%;
  margin-bottom: 10px;
  background: rgba(255,255,255,255);
  border: none;
  outline: none;
  padding: 10px;
  font-size: 13px;
color: black;
  text-shadow: black;
  border: 1px solid rgba(0,0,0,0.3);
  border-radius: 4px;
  box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1pxrgba(255,255,255,0.2);
  -webkit-transition: box-shadow .5s ease;
  -moz-transition: box-shadow .5s ease:
  -o-transition: box-shadow .5s ease;
  -ms-transition: box-shadow .5s ease;
  transition: box-shadow .5s ease:
}
textarea: focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px
1pxrgba(255,255,255,0.2); }
```

```
select {
  width: 100%;
  margin-bottom: 10px;
  background: rgba(255,255,255,255);
  border: none;
  outline: none;
  padding: 10px;
  font-size: 13px;
color: #000000;
  text-shadow: 1px 1px1pxrgba(0,0,0,0.3);
  border: 1px solid rgba(0,0,0,0.3);
  border-radius: 4px;
  box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1pxrgba(255,255,255,0.2);
  -webkit-transition: box-shadow .5s ease;
  -moz-transition: box-shadow .5s ease;
  -o-transition: box-shadow .5s ease;
  -ms-transition: box-shadow .5s ease;
  transition: box-shadow .5s ease;
}
@importurl(https://fonts.googleapis.com/css?family=Open+Sans);
.btn {
  display: inline-block;
  *display: inline;
  *zoom: 1;
   padding: 10px 30px 10px;
  margin-bottom: 0;
  font-size: 13px;
  line-height: 18px;
color: #333333;
  text-align: center;
  text-shadow: 0 1px 1pxrgba(255, 255, 255, 0.75);
  vertical-align: middle;
```

```
background-color: #f5f5f5;
  background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -webkit-gradient(linear, 00, 0100%, from(#ffffff), to(#e6e6e6));
  background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: linear-gradient(top, #ffffff, #e6e6e6);
  background-repeat: repeat-x;
  filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff,
endColorstr=#e6e6e6, GradientType=0);
  border-color: #e6e6e6 #e6e6e6 #e6e6e6;
  border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25);
  border: 1px solid #e6e6e6;
  -webkit-border-radius: 4px;
  -moz-border-radius: 4px;
  border-radius: 4px;
  -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
  -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
  box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
  cursor: pointer; *margin-left: .3em;
.btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6;
.btn-large {
  padding: 9px 14px;
  font-size: 15px;
  line-height: normal;
  -webkit-border-radius: 5px;
  -moz-border-radius: 5px;
  border-radius: 5px;
.btn:hover {
```

```
color: #333333;
  text-decoration: none;
  background-color: #e6e6e6;
  background-position: 0 -15px;
  -webkit-transition: background-position 0.1s linear;
  -moz-transition: background-position 0.1s linear;
  -ms-transition: background-position 0.1s linear;
  -o-transition: background-position 0.1s linear;
  transition: background-position 0.1s linear;
  }
.btn-primary, .btn-primary:hover {
  text-shadow: 0 - 1px 0 rgba(0, 0, 0, 0.25);
color: #ffffff;
  }
.btn-primary.active { color: rgba(255, 255, 255, 0.75); }
.btn-primary {
  background-color: #4a77d4;
  background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: -ms-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: -webkit-gradient(linear, 00, 0100%, from(#6eb6de), to(#4a77d4));
  background-image: -webkit-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: -o-linear-gradient(top, #6eb6de, #4a77d4);
  background-image: linear-gradient(top, #6eb6de, #4a77d4);
  background-repeat: repeat-x;
  filter: progid:dximagetransform.microsoft.gradient(startColorstr=#6eb6de,
endColorstr=#4a77d4, GradientType=0);
  border: 1px solid #3762bc;
  text-shadow: 1px 1px1pxrgba(0,0,0,0.4);
  box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5);
.btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled, .btn-
primary[disabled] {
```

```
filter: none;
  background-color: #4a77d4;
.btn-block { width: 100%; display:block; }
* { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-sizing:border-box;
-o-box-sizing:border-box; box-sizing:border-box; }
html { width: 100%; height:100%; overflow:hidden; }
body {
  width: 100%;
  height:100%;
  font-family: 'Open Sans', sans-serif;
  background: #fffff;
color: #000000;
  font-size: 18px;
text-align:center;
  letter-spacing:1.2px;
}
.header {
       top:0;
       margin:0px;
           left: 0px;
       right: 0px;
       position: fixed;
       background: #4a77d4;
color: #979ADE;
       box-shadow: 0px 8px 4px grey;
       overflow: hidden;
       padding: 15px;
       font-size: 1.5vw;
       width: 100%;
       text-align: center;
     }
```

```
.login {
  position: absolute;
  top: 10%;
  left: 50%;
  margin: -25px 0 0 -150px;
  width:400px;
  height:400px;
}
.register {
  position: absolute;
  top: 10%;
  left: 50%;
  margin: -25px 0 0 -150px;
  width:400px;
  height:400px;
}
.note mt-3 text-center div {
  position: absolute;
  top: 60%;
  left: 50%;
  margin: -25px 0 0 -150px;
  width:400px;
  height:400px;
.header div { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px; text-
align:center; float:left; padding-left:150px;}
ul {
list-style-type: none;
 margin: 0;
 padding: 0;
 padding-right:150px;
 overflow: hidden;
```

```
}
li {
 float: right;
}
li a {
 display: block;
color: white;
 text-align: center;
 padding: 0px 15px;
 text-decoration: none;
}
input {
  width: 100%;
  margin-bottom: 10px;
  background: rgba(255,255,255,255);
  border: none;
  outline: none;
  padding: 10px;
  font-size: 13px;
color: black;
  text-shadow: black;
  border: 1px solid rgba(0,0,0,0.3);
  border-radius: 4px;
  box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1pxrgba(255,255,255,0.2);
  -webkit-transition: box-shadow .5s ease;
  -moz-transition: box-shadow .5s ease;
  -o-transition: box-shadow .5s ease;
  -ms-transition: box-shadow .5s ease;
  transition: box-shadow .5s ease;
input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px
1pxrgba(255,255,255,0.2); }
```

```
textarea {
  width: 100%;
  margin-bottom: 10px;
  background: rgba(255,255,255,255);
  border: none;
  outline: none;
  padding: 10px;
  font-size: 13px;
color: black;
  text-shadow: black;
  border: 1px solid rgba(0,0,0,0.3);
  border-radius: 4px;
  box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1pxrgba(255,255,255,0.2);
  -webkit-transition: box-shadow .5s ease;
  -moz-transition: box-shadow .5s ease;
  -o-transition: box-shadow .5s ease;
  -ms-transition: box-shadow .5s ease;
  transition: box-shadow .5s ease;
}
textarea:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px
1pxrgba(255,255,255,0.2); }
select {
  width: 100%;
  margin-bottom: 10px;
  background: rgba(255,255,255,255);
  border: none:
  outline: none;
  padding: 10px;
  font-size: 13px;
color: #000000;
  text-shadow: 1px 1px1pxrgba(0,0,0,0.3);
  border: 1px solid rgba(0,0,0,0.3);
```

```
border-radius: 4px;
      box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1pxrgba(255,255,255,0.2);
      -webkit-transition: box-shadow .5s ease;
      -moz-transition: box-shadow .5s ease;
      -o-transition: box-shadow .5s ease;
      -ms-transition: box-shadow .5s ease;
     transition: box-shadow .5s ease;
   }
app.py
   from flask import Flask, render_template, request, redirect, url_for, session
   import ibm_db
   import re
   app = Flask(_name_)
   app.secret_key = 'a'
   conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=3883e7e4-18f5-4afe-be8c-
   fa31c41761d2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31498;SECURITY
   =SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=sch83401;PWD=j7QZUHGAt
   UGbPhns",",")
   @app.route('/')
   def homer():
     return render_template('home.html')
   @app.route('/login',methods =['GET', 'POST'])
   def login():
     global userid
   msg = "
     if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
   sql = "SELECT * FROM users 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']
userid= account['USERNAME']
       session['username'] = account['USERNAME']
msg = 'Logged in successfully!'
msg = 'Logged in successfully!'
       return render_template('dashboard.html', msg = msg)
    else:
msg = 'Incorrect username / password !'
  return render_template('login.html', msg = msg)
@app.route('/register', methods =['GET', 'POST'])
def registet():
msg = "
  if request.method == 'POST':
    username = request.form['username']
    email = request.form['email']
    password = request.form['password']
sql = "SELECT * FROM job WHERE username =?"
stmt = ibm db.prepare(conn, sql)
ibm db.bind param(stmt,1,username)
ibm db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print(account)
    if account:
msg = 'Account already exists!'
elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
msg = 'Invalid email address!'
elif not re.match(r'[A-Za-z0-9]+', username):
msg = 'name must contain only characters and numbers!'
insert_sql = "INSERT INTO users VALUES (?, ?, ?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, username)
```

```
ibm_db.bind_param(prep_stmt, 2, email)
ibm_db.bind_param(prep_stmt, 3, password)
ibm_db.execute(prep_stmt)
msg = 'You have successfully registered!'
elifrequest.method == 'POST':
msg = 'Please fill out the form!'
  return render_template('register.html', msg = msg)
@app.route('/dashboard')
def dash():
  return render_template('dashboard.html')
@app.route('/apply',methods =['GET', 'POST'])
def apply():
msg = "
   if request.method == 'POST':
     username = request.form['username']
     email = request.form['email']
     qualification= request.form['qualification']
     skills = request.form['skills']
     jobs = request.form['s']
sql = "SELECT * FROM users WHERE username =?"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt,1,username)
ibm_db.execute(stmt)
     account = ibm db.fetch assoc(stmt)
     print(account)
     if account:
msg = 'there is only 1 job position! for you'
       return render_template('apply.html', msg = msg)
insert_sql = "INSERT INTO job VALUES (?, ?, ?, ?, ?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm db.bind param(prep stmt, 1, username)
ibm_db.bind_param(prep_stmt, 2, email)
ibm_db.bind_param(prep_stmt, 3, qualification)
ibm_db.bind_param(prep_stmt, 4, skills)
ibm_db.bind_param(prep_stmt, 5, jobs)
```

```
ibm_db.execute(prep_stmt)
   elifrequest.method == 'POST':
   msg = 'Please fill out the form!'
      return render_template('apply.html', msg = msg)
   @app.route('/display')
   def display():
      print(session["username"],session['id'])
     cursor = mysql.connection.cursor()
   cursor.execute('SELECT * FROM job WHERE userid = % s', (session['id'],))
      account = cursor.fetchone()
      print("accountdislay",account)
      return render_template('display.html',account = account)
   @app.route('/logout')
   def logout():
   session.pop('loggedin', None)
   session.pop('id', None)
   session.pop('username', None)
     return render_template('home.html')
   if __name__ == '_main_':
   app.run(host='0.0.0.0',port=8080)
Intergratingsendgrid with python code
sendemail.py
import smtplib
import sendgrid
import os
from sendgrid.helpers.mail import Mail, Email, To, Content
SUBJECT = "Interview Call"
s = smtplib.SMTP('smtp.gmail.com', 587)
def sendmail(TEXT,email):
  print("sorry we cant process your candidature")
  s = smtplib.SMTP('smtp.gmail.com', 587)
```

```
s.starttls()
s.login("mukilsneha12@gmail.com", "mukilsendgridaccount")
  message = 'Subject: { }\n\n{ }'.format(SUBJECT, TEXT)
s.sendmail("mukilsneha12@gmail.com", email, message)
s.quit()
def sendgridmail(user,TEXT):
  sg = sendgrid.SendGridAPIClient('SG.atzbAf29RVeuAWT-
m0BPWA.7tTSm61FY47S9pXiFSt-h-feo6Oi_DhAFPIidg92mn0')
from_email = Email("mukilsneha12@gmail.com") # Change to your verified sender
to_email = To(user) # Change to your recipient
  subject = "You have received a call for"
  content = Content("Check more for further details",TEXT)
  mail = Mail(from_email, to_email, subject, content)
  # Get a JSON-ready representation of the Mail object
mail ison = mail.get()
  # Send an HTTP POST request to /mail/send
  response = sg.client.mail.send.post(request_body=mail_ison)
  print(response.status_code)
  print(response.headers)
```