**SKILL AND JOB RECOMMENDER APPLICATION**

**1 INTRODUCTION**

**PROJECT OVERVIEW**

Nowadays, job search is a task commonly done on the Internet using job search engine sites like LinkedIn, Indeed and others. Commonly, a job seeker has two ways to search a job using these sites: 1) doing a query based on keywords related to the job vacancy that he/she is looking for, or 2) creating and/or updating a professional profile containing data related to his/her education, professional experience, professional skills and other, and receive personalized job recommendations based on this data. Sites providing support to the former case are more popular and have a simpler structure; however, their recommendations are less accurate than those of the sites using profile data.

Based on the person-job fit premise, we propose a framework for job recommendation based on professional skills of job seekers. We automatically extracted the skills from the job seeker profiles using a variety of text processing techniques. Therefore, we perform the job recommendation using TF-IDF and four different configurations of Word2vec over a dataset of job seeker profiles and job vacancies collected by us. Our experimental results show the performances of the evaluated methods and configurations and can be used as a guide to choose the most suitable method and configuration for job recommendation.

The remainder of this paper is organized as follows. We briefly describe the natural language processing methods we are used in our experimental setup. In Section 3 we present our proposal, including a new dataset collected by us and the framework for job recommendation.

**1.2 PURPOSE**

The purpose of the project is skill and job recommendation **We started our journey by understanding the importance of a job recommendation system based on the skill set of the user. A system which can, not only recommend the job but also highlight the necessary skill set needed for the recommended job, which helps the user to learn more on the skill set**

**CHAPTER 2**

**LITERATURE SURVEY**

**2.1 Title:** Job Recommendation through Progression of Job Selection

**Author:** Amber Nigam; Aakash Roy; Hartaran Singh;

**Year:** 2020

**Description:**

The task of job recommendation has been invariably solved using either a filter-based technique or through recommender systems where categorical features associated with jobs and candidates are used to generate recommendations. Through this paper, we are introducing a novel machine learning model which uses the candidates' job preference over time to incorporate the dynamics associated with highly volatile job market. In addition to that, our approach comprises several other smaller recommendations that contribute to problems of a) generating serendipitous recommendations b) solving the cold-start problem for new jobs and new candidates. We have used skills as embedded features to derive latent competencies from them, thereby expanding the skills of jobs and candidate to achieve more coverage in the skill domain. Our model has been developed and deployed in a real-world job recommender system and the best performance of the click-through rate metric has been achieved through a blend of machine learning and non-machine learning recommendations. The best results have been achieved through Bidirectional Long Short Term Memory Networks (Bi-LSTM) with Attention for recommending jobs through machine learning that forms a major part of our recommendation.

**2.2 Title:** A Recommender System for Open Educational Videos Based On Skill Requirements

**Author:** Mohammadreza Tavakoli; Sherzod Hakimov; Ralph Ewerth;

**Year:** 2020

**Description:**

In this paper, we suggest a novel method to help learners find relevant open educational videos to master skills demanded on the labour market. We have built a prototype, which 1) applies text classification and text mining methods on job vacancy announcements to match jobs and their required skills; 2) predicts the quality of videos; and 3) creates an open educational video recommender system to suggest personalized learning content to learners. For the first evaluation of this prototype we focused on the area of data science related jobs. Our prototype was evaluated by in-depth, semi-structured interviews. 15 subject matter experts provided feedback to assess how our recommender prototype performs in terms of its objectives, logic, and contribution to learning. More than 250 videos were recommended, and 82.8% of these recommendations were treated as useful by the interviewees. Moreover, interviews revealed that our personalized video recommender system, has the potential to improve the learning experience.

**2.3 Title:** GUapp: A Conversational Agent for Job Recommendation for the Italian Public Administration

**Author:** Vito Bellini; Giovanni Maria Biancofiore; Tommaso Di Noia; Eugenio Di Sciascio;

**Year:** 2021

**Description:**

GUapp is a platform for job-postings search and recommendation for the Italian public administration. The platform offers recommendation services with the aim of matching user skills and requests with job positions available in a given period of time. The recommender system implemented in GUapp, based on Latent Dirichlet Allocation, computes the k-nearest neighbour’s job positions most similar to the user profile. Furthermore, in order to improve the user experience, GUapp implements a Chatbot whose goal is to allow users to interact with the app through natural language. Thanks to that, the search and recommendation process becomes incremental and the user can add new requirements at each stage of the interaction. In this paper we present GUapp, its recommender system, and the Chatbot developed for achieving an effective interaction with the user. In the next future, we will carry out in-vivo and in-vitro experiments for evaluating the system and its components in deep.

**2.4 Title:** A Staffing Recommender System based on Domain-Specific Knowledge Graph

**Author:** Yan Wang; Yacine Allouache; Christian Joubert

**Year:** 2022

**Description:**

In the economics environment, Job Matching is always a challenge involving the evolution of knowledge and skills. A good matching of skills and jobs can stimulate the growth of economics. Recommender System (RecSys), as one kind of Job Matching, can help the candidates predict the future job relevant to their preferences. However, RecSys still has the problem of cold start and data sparsity. The content-based filtering in RecSys needs the adaptive data for the specific staffing tasks of Bidirectional Encoder Representations from Transformers (BERT). In this paper, we propose a job RecSys based on skills and locations using a domain-specific Knowledge Graph (KG). This system has three parts: a pipeline of Named Entity Recognition (NER) and Relation Extraction (RE) using BERT; a standardization system for pre-processing, semantic enrichment and semantic similarity measurement; a domain-specific Knowledge Graph (KG). Two different relations in the KG are computed by cosine similarity and Term Frequency-Inverse Document Frequency (TF-IDF) respectively. The raw data used in the staffing RecSys include 3000 descriptions of job offers from Indeed, 126 Curriculum Vitae (CV) in English from Kaggle and 106 CV in French from Linx of Capgemini Engineering. The staffing RecSys is integrated under an architecture of Microservices. The autonomy and effectiveness of the staffing RecSys are verified through the experiment using Discounted Cumulative Gain (DCG). Finally, we propose several potential research directions for this research.

**2.5 Title:** Implementation K-Means Clustering Method in Job Recommendation System

**Author:** Betty Dewi Puspasari; Lany Lukita Damayanti; Andy Pramono;

**Year:** 2021

**Description:**

Work is important for everyone to earn income. With the large number of new graduates each year, finding job vacancies is a problem for students who have just completed their studies in higher education because they still do not have work experience so they are required to look for jobs that really match their criteria. Applications made can recommend specific job vacancies for undergraduates from universities (undergraduates) with the K-Means Clustering method. Applications in the form of websites that become third parties for companies and applicants. This application is one of the means that can provide solutions to companies and applicants in finding workers or jobs using a recommendation system. The problem to be studied is how to apply the K-Means Clustering method to the job vacancy recommendation system. The recommendation system in this application will calculate the level of match of the applicant’s main skills, salary, location, and other skills with the needs of the company. The stages of making a recommendation system are making system designs and designs which include context diagrams, DFD, ERD and interface design. built with PHP, Java, jQuery, JavaScript, HTML, and CSS. Program testing is done by black box testing method. Questionnaire testing is given to applicants, companies, and admins with elements of testing based on user satisfaction, user convenience and system quality, resulting in the conclusion that the system can run well by getting a percentage of 87.6%.

**2.6 Title:** Convolutional Neural Network Based Career Recommender System for Pakistani Engineering Students

**Author:** Takreem Saeed; Muhammad Sufian; Mubashir Ali; Attique Ur Rehman

**Year:** 2022

**Description:**

In recent years, Recommender systems are utilized in a variety of areas. One reason behind why we want a recommender system in current society is that an individual has many alternatives to use because of the pervasiveness of the Internet. A recommender system seeks to estimate and predict user content preference. Old recommender systems used State-of-the-art recommender algorithms like content based filtering to predict ratings. Career Recommender system provides Engineering candidates the best possible available jobs relevant to their skills, qualification, etc. Four to six major engineering disciplines are covered in this recommender system. The proposed approach is tested using a career recommendation dataset which is collected from many students of different disciplines of various universities. A deep NLP based CNN model is used to predict the best jobs with maximum precision. 512 hidden layers are used to increase the performance of this system. Career recommendation takes care of the users and saves their cost and time spending on traditional job searching methods. Comparative study demonstrates that the proposed methodology of prediction of the best jobs achieves better results with an accuracy of 84% when matched with content based filtering technique where 81% accuracy is gained for content based career recommender system.

**2.7 Title:** Meta-Heuristic Algorithms for Learning Path Recommender at MOOC

**Author:** Ngo Tung Son; Jafreezal Jaafar; Izzatdin Abdul Aziz

**Year**: 2021

**Description:**

Online learning platforms, such as Coursera, Edx, Udemy, etc., offer thousands of courses with different content. These courses are often of discrete content. It leads the learner not to find a learning path in a vast volume of courses and contents, especially when they have no experience in advance. Streamlining the order of courses to create a well-defined learning path can help e-learners achieve their learning goals effectively and systematically. The learners usually ask the necessary skills that they expect to earn (query). The need is to develop a recommender system that can search for suitable learning paths. This study proposes a multi-objective optimization model as a knowledge-based recommender. Our model can generate an appropriate learning path for learners based on their background and job goals. The recommended studying path satisfies several learner criteria, such as the critical learning path, number of enrollments, learning duration, popularity, rating of previous learners, and cost. We have developed Metaheuristic algorithms includes the Genetic Algorithm (GA) and Ant Colony Optimization Algorithm (ACO), to solve the proposed model. Finally, we tested proposed methods with a dataset consisting of Coursera's courses and Vietnam work's jobs. The test results show the effectiveness of the proposed method.

**2.8 Title:** Meta-Heuristic Algorithms for Learning Path Recommender at MOOC

**Author:** NGO TUNG SON, JAFREEZAL JAAFAR

**Year:** 2021

**Description:**

Online learning platforms, such as Coursera, Edx, Udemy, etc., offer thousands of courses with different content. These courses are often of discrete content. It leads the learner not to find a learning path in a vast volume of courses and contents, especially when they have no experience in advance. Streamlining the order of courses to create a well-defined learning path can help e-learners achieve their learning goals effectively and systematically. The learners usually ask the necessary skills that they expect to earn (query). The need is to develop a recommender system that can search for suitable learning paths. This study proposes a multi-objective optimization model as a knowledge-based recommender. Our model can generate an appropriate learning path for learners based on their background and job goals. The recommended studying path satisfies several learner criteria, such as the critical learning path, number of enrollments, learning duration, popularity, rating of previous learners, and cost. We have developed Metaheuristic algorithms includes the Genetic Algorithm (GA) and Ant Colony Optimization Algorithm (ACO), to solve the proposed model. Finally, we tested proposed methods with a dataset consisting of Coursera’s courses and Vietnam work’s jobs. The test results show the effectiveness of the proposed method.

**2.9 Title:** Skill Analysis and Scouting Platform Using Machine Learning

**Author:** T. Subha; R. Ranjana; B. Aarthi; S. Pavithra;

**Year:** 2022

**Description:**

In a world where technology is rapidly advancing many firms have changed their traditional approach of recruiting the students based on their academic scores. In light of the technological advancement, improvement of placement records is a challenge for higher educational institutions because they do not adequately focus on training their students in career prospects. Therefore, the proposed study seeks to establish a Data Prediction system to analyze the technical knowledge of the students and the job seekers by predicting their ability to obtain a position in their ideal company based on their hands-on experience and skillsets. In addition, this model also proposes a recommendation system to suggest the domains that are thriving as well as the sectors that the candidate should concentrate to upgrade their skill. Many candidates will be benefitted through this model as they can analyze their skillsets and up skill themselves which in turn enhances the placement rate of the educational institutions. Many firms increasingly shortlist candidates based on their resumes, but some job seekers falsify their resume's skillsets. So as an additional feature this model also provides the recruiters with a complete see through of the candidate's technical skills and domain knowledge. The company can then take advantage of this to scout the most ideal candidate by making the right career opportunity available to the right people.

**2.10 Title:** SKYNET: A platform for maximizing career opportunities

**Author:** Aakash Kolekar

**Year:** 2022

**Description:**

Professional networking interfaces provide a significantly improved exposure and likelihood of job opportunities as well as career-related resources. Multiple availability of such platforms lead to a lack of standardization and thereby can result in a false sense of security. A massive profile pool has also statistically incremented the probability of overlooking suited candidate profiles at a global level. This paper presents a university-level individualized professional networking platform - SKYNET for enhanced prospects of job acquisition. SKYNET proved to be a successful amalgamation between career and academia which fundamentally aims on facilitating an enhanced job recommendation system based on individual professional skills. It is a Web application that smoothens the process of hiring and significantly improves an individual's chance of securing jobs and internships. It helps students to get a reality check to see where they stand among their peers as well, considering various parameters such as certifications and work experience. It will provide a customized preview of student and company profiles based on needed skills and expertise. The corresponding system also supports ranking and filtration based on the job profile and description which was achieved by a custom-designed algorithm. Results helped not only student candidates to find internships and jobs while pursuing primitive professional education which helped them work in a professional setting and apply the grasped knowledge in real-time. Furthermore, made it simple for collaborating recruiters to pick the perfect student-job-role match in a timely manner.

**2.1 EXISTING SYSTEM**

**2.2 REFERENCE**

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[2] Gomez-Uribe, C. A., & Hunt, N. (2016). The netflix recommender system: Algorithms, business value, and innovation. ACM Transactions on Management Information Systems (TMIS), 6(4), 13.

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[8] Jiang, M., Fang, Y., Xie, H., Chong, J., & Meng, M. (2019). User click prediction for personalized job recommendation. World Wide Web, 22(1), 325-345.

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[13] Zibriczky, D. (2016, September). A combination of simple models by forward predictor selection for job recommendation. In Proceedings of the Recommender Systems Challenge (p. 9). ACM.

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[15] Liu, K., Shi, X., Kumar, A., Zhu, L., & Natarajan, P. (2016, September). Temporal learning and sequence modeling for a job recommender system. In Proceedings of the Recommender Systems Challenge (p. 7). ACM.

**2.3 PROBLEM STATEMENT**

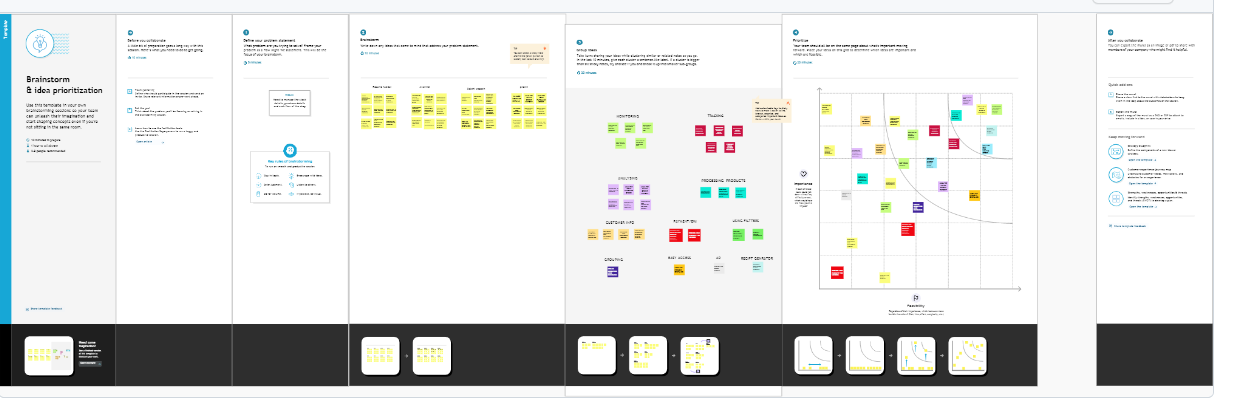
Create a problem statement to understand your customer’s point of view. The customer problem statement template helps you focus on what matters to create experience people will love.

A well-articulated customer problem statement allows you and your team to find the ideal solutions for the challenges your customers face. Throughout the process, you’ll also be able to perceive your product or service.

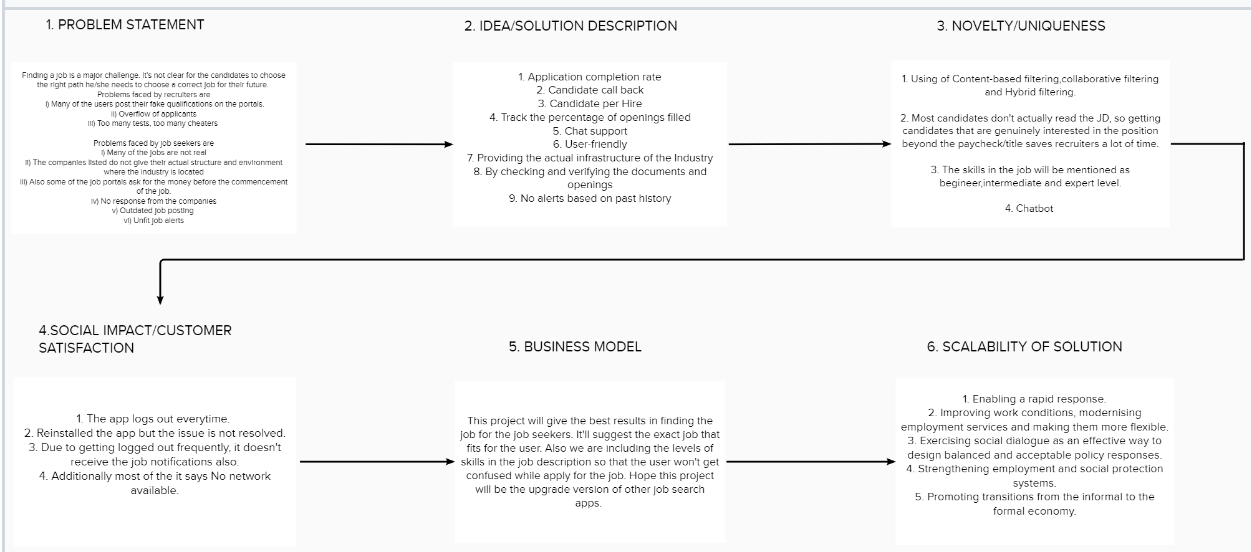
**3. IDEATION & PROPOSED SOLUTION**

**3.1 EMPATHY MAP CANVAS**

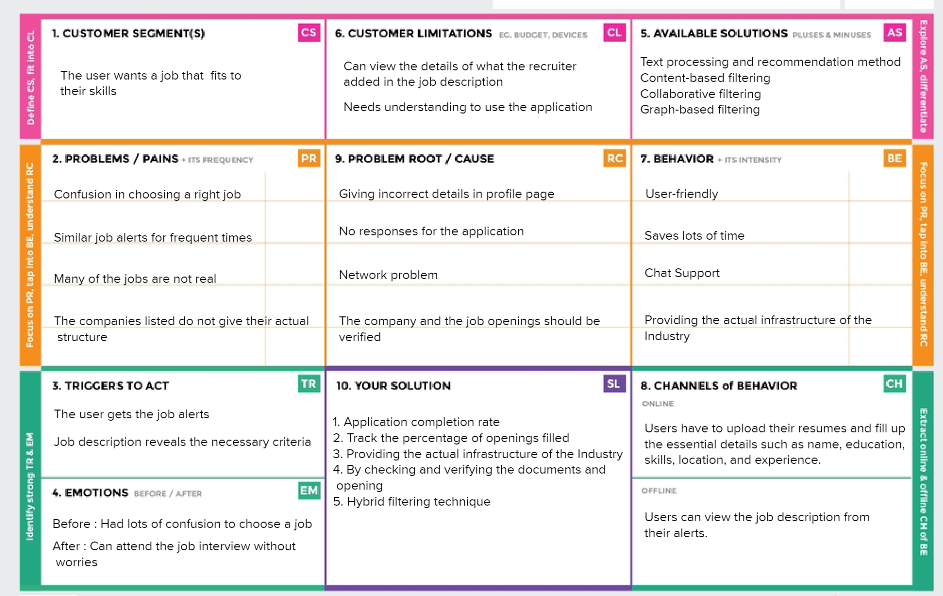
**3.2 IDEATION & BRAINSTORMING**

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**3.3 PROPOSED SYSTEM**



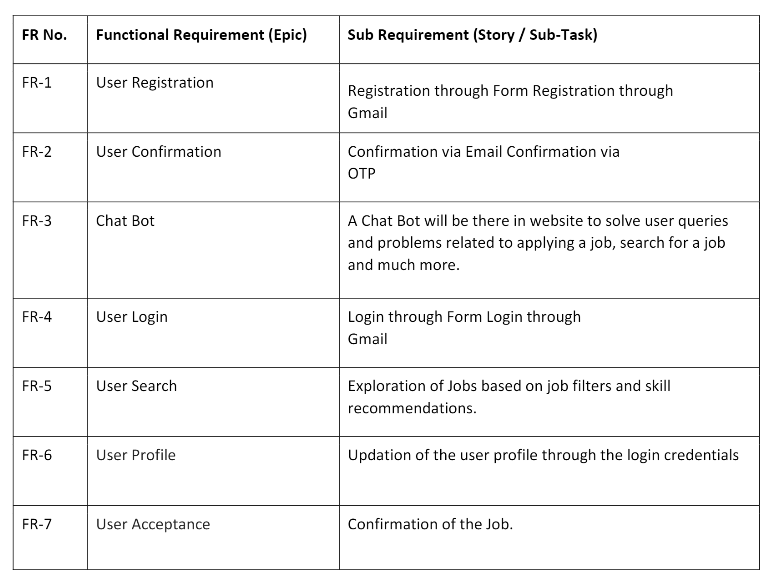
**3.4 PROBLEM SOLUTION FIT**



**4. REQUIREMENT ANALYSIS**

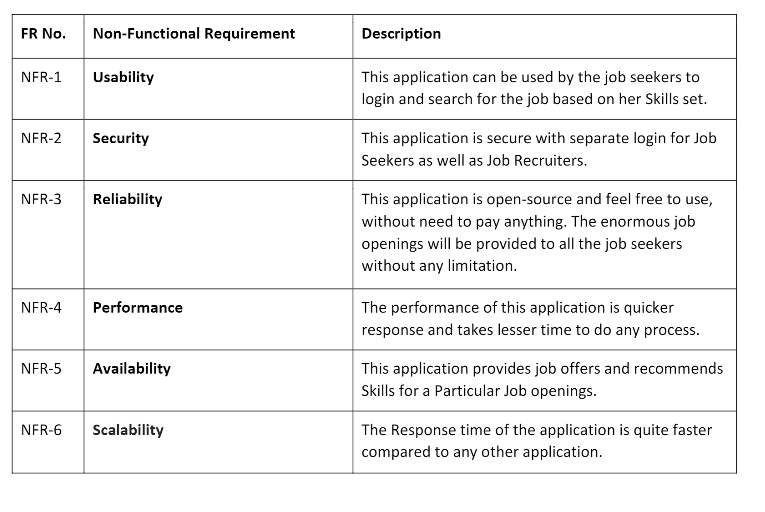
**4.1 FUNCTIONAL REQUIREMENT**

Following are the functional requirements of the proposed solution.



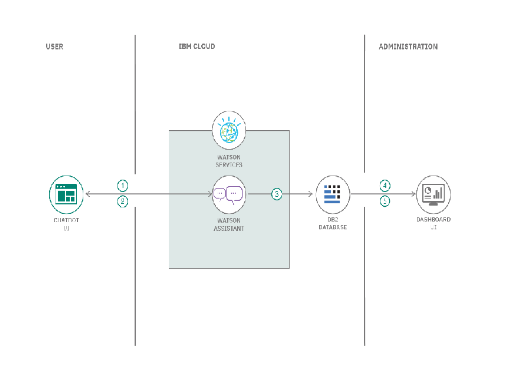
**4.2 NON-FUNCTIONAL REQUIREMENTS**

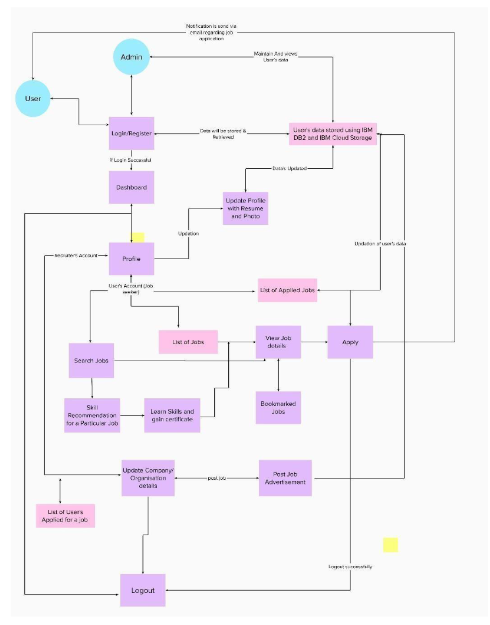
Following are the Non - functional requirements of the proposed solution.



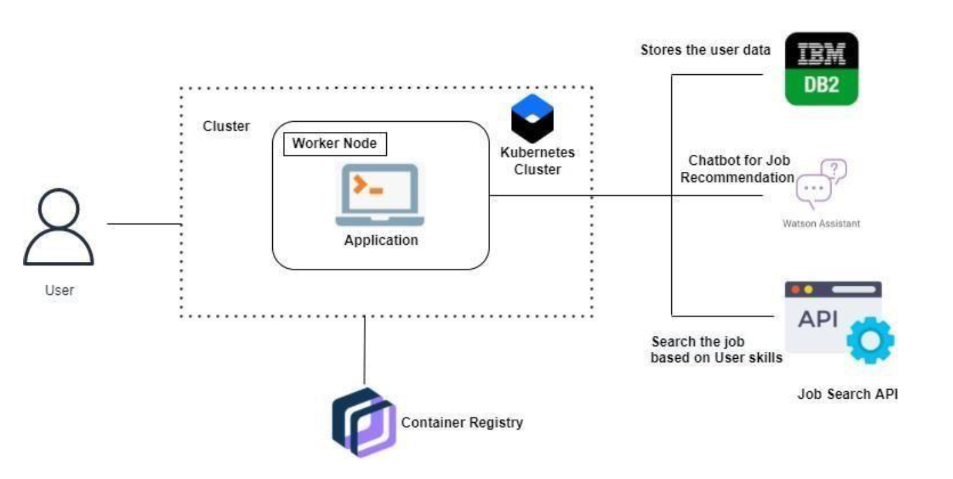
**5. PROJECT DESIGN**

**5.1 DATA FLOW DIAGRAMS**



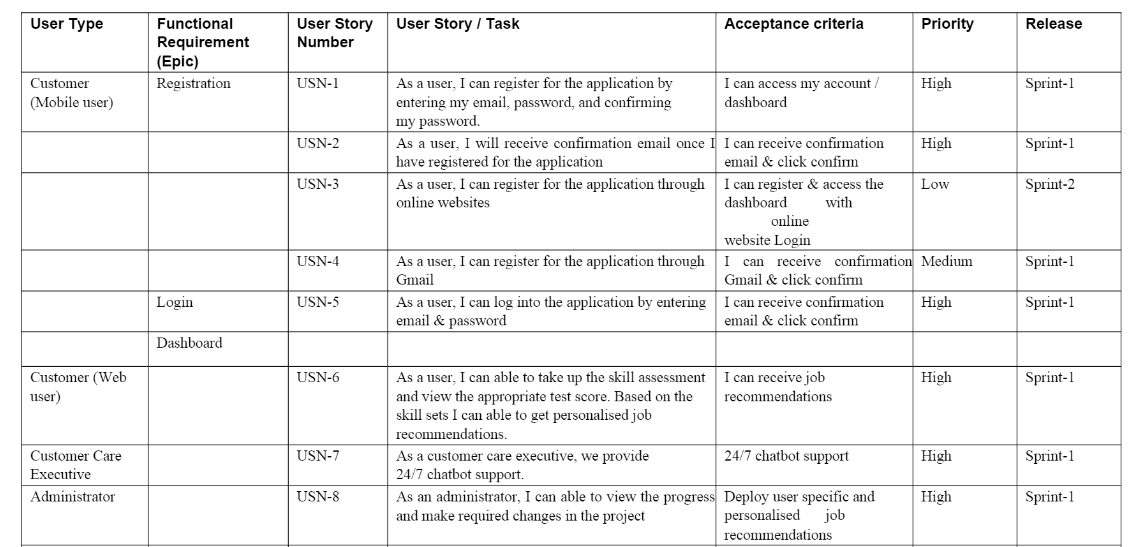


**5.2 SOLUTION & TECHNICAL ARCHITECTURE**



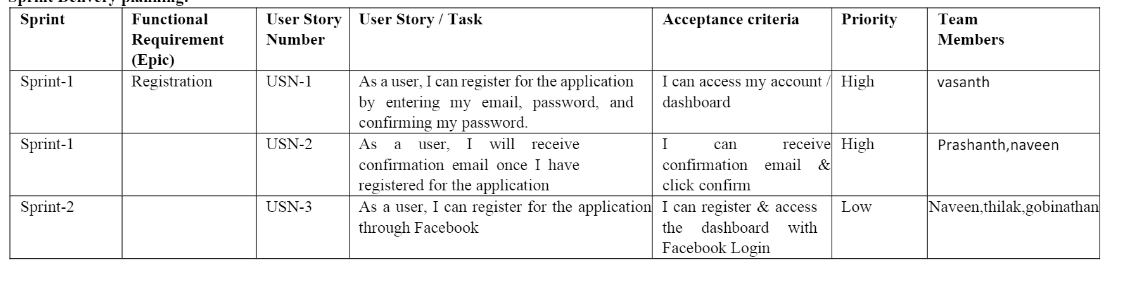
**5.3 USER STORIES**

Use the below template to list of the user stories foe the product.

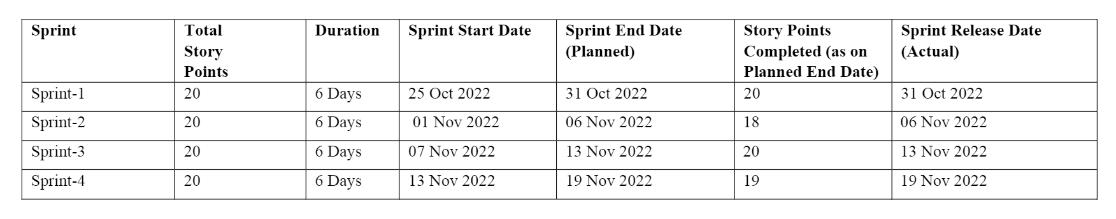


**6 PROJECTS PLANNING & SCHEDULING**

**6.1 SPRINT PLANNING & ESTIMATION:**



**6.2 Sprint Delivery Schedule:**



**6.3 REPORTS FROM JIRA:**



**8 TESTING**

### 8. SYSTEM TESTING

The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components, sub-assemblies, assemblies and/or a finished product. It is the process of exercising software with the intent of ensuring that the Software system meets its requirements and user expectations and does not fail in an unacceptable manner. There are various types of test. Each test type addresses a specific testing requirement.

**8.1 TYPES OF TESTS**

**8.1.1 Unit testing**

Unit testing involves the design of test cases that validate that the internal program logic is functioning properly, and that program inputs produce valid outputs. All decision branches and internal code flow should be validated. It is the testing of individual software units of the application .it is done after the completion of an individual unit before integration. This is a structural testing, that relies on knowledge of its construction and is invasive. Unit tests perform basic tests at component level and test a specific business process, application, and/or system configuration. Unit tests ensure that each unique path of a business process performs accurately to the documented specifications and contains clearly defined inputs and expected results.

**8.1.2 Integration testing**

Integration tests are designed to test integrated software components to determine if they actually run as one program. Testing is event driven and is more concerned with the basic outcome of screens or fields. Integration tests demonstrate that although the components were individually satisfaction, as shown by successfully unit testing, the combination of components is correct and consistent. Integration testing is specifically aimed at exposing the problems that arise from the combination of components.

**8.1.3 Functional test**

Functional tests provide systematic demonstrations that functions tested are available as specified by the business and technical requirements, system documentation, and user manuals.

Functional testing is centered on the following items:

Valid Input : identified classes of valid input must be accepted.

Invalid Input : identified classes of invalid input must be rejected.

Functions : identified functions must be exercised.

Output : identified classes of application outputs must be exercised.

Systems/Procedures: interfacing systems or procedures must be invoked.

Organization and preparation of functional tests is focused on requirements, key functions, or special test cases. In addition, systematic coverage pertaining to identify Business process flows; data fields, predefined processes, and successive processes must be considered for testing. Before functional testing is complete, additional tests are identified and the effective value of current tests is determined.

**8.1.4 System Test**

System testing ensures that the entire integrated software system meets requirements. It tests a configuration to ensure known and predictable results. An example of system testing is the configuration-oriented system integration test. System testing is based on process descriptions and flows, emphasizing pre-driven process links and integration points.

**8.1.5 White Box Testing**

White Box Testing is a testing in which in which the software tester has knowledge of the inner workings, structure and language of the software, or at least its purpose. It is purpose. It is used to test areas that cannot be reached from a black box level.

**8.1.6 Black Box Testing**

Black Box Testing is testing the software without any knowledge of the inner workings, structure or language of the module being tested. Black box tests, as most other kinds of tests, must be written from a definitive source document, such as specification or requirements document, such as specification or requirements document. It is a testing in which the software under test is treated, as a black box .you cannot “see” into it. The test provides inputs and responds to outputs without considering how the software works.

**8.2 Unit Testing:**

Unit testing is usually conducted as part of a combined code and unit test phase of the software lifecycle, although it is not uncommon for coding and unit testing to be conducted as two distinct phases.

**8.2.1 Test strategy and approach**

Field testing will be performed manually and functional tests will be written in detail.

**8.2.2 Test objectives**

* All field entries must work properly.
* Pages must be activated from the identified link.
* The entry screen, messages and responses must not be delayed.

**8.2.3 Features to be tested**

* Verify that the entries are of the correct format
* No duplicate entries should be allowed
* All links should take the user to the correct page.

# 8.3 Integration Testing

Software integration testing is the incremental integration testing of two or more integrated software components on a single platform to produce failures caused by interface defects. The task of the integration test is to check that components or software applications, e.g. components in a software system or – one step up – software applications at the company level – interact without error.

**Test Results:** All the test cases mentioned above passed successfully. No defects encountered.

**8.4 Acceptance Testing**

User Acceptance Testing is a critical phase of any project and requires significant participation by the end user. It also ensures that the system meets the functional requirements.

**Test Results:** All the test cases mentioned above passed successfully. No defects encountered.

**Code**

**from flask import Flask, render\_template, request, jsonify, session**

**import datetime**

**import re**

**import ibm\_db**

**import pandas**

**import ibm\_db\_dbi**

**from sqlalchemy import create\_engine**

**engine = create\_engine('sqlite://',**

**echo = False)**

**dsn\_hostname = "b1bc1829-6f45-4cd4-bef4-10cf081900bf.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"**

**dsn\_uid = "bgx86936"**

**dsn\_pwd = "LDBdZPnYhnaBy1iv"**

**dsn\_driver = "{IBM DB2 ODBC DRIVER}"**

**dsn\_database = "bludb"**

**dsn\_port = "32304"**

**dsn\_protocol = "TCPIP"**

**dsn\_security = "SSL"**

**dsn = (**

**"DRIVER={0};"**

**"DATABASE={1};"**

**"HOSTNAME={2};"**

**"PORT={3};"**

**"PROTOCOL={4};"**

**"UID={5};"**

**"PWD={6};"**

**"SECURITY={7};").format(dsn\_driver, dsn\_database, dsn\_hostname, dsn\_port, dsn\_protocol, dsn\_uid, dsn\_pwd,dsn\_security)**

**try:**

**conn = ibm\_db.connect(dsn, "", "")**

**print ("Connected to database: ", dsn\_database, "as user: ", dsn\_uid, "on host: ", dsn\_hostname)**

**except:**

**print ("Unable to connect: ", ibm\_db.conn\_errormsg() )**

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

**app.config.from\_object(\_\_name\_\_)**

**app.config['SECRET\_KEY'] = '7d441f27d441f27567d441f2b6176a'**

**@app.route("/")**

**def homepage():**

**return render\_template('UserLogin.html')**

**@app.route("/alogin")**

**def alogin():**

**return render\_template('AdminLogin.html')**

**@app.route("/AdminHome")**

**def AdminHome():**

**conn = ibm\_db.connect(dsn, "", "")**

**pd\_conn = ibm\_db\_dbi.Connection(conn)**

**selectQuery = "SELECT \* from regtb "**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('Employee\_Data',**

**con=engine,**

**if\_exists='append')**

**# run a sql query**

**data = engine.execute("SELECT \* FROM Employee\_Data").fetchall()**

**return render\_template('AdminHome.html', data=data)**

**@app.route("/NewProduct")**

**def NewProduct():**

**return render\_template('NewProduct.html')**

**@app.route("/ProductInfo")**

**def ProductInfo():**

**conn = ibm\_db.connect(dsn, "", "")**

**pd\_conn = ibm\_db\_dbi.Connection(conn)**

**selectQuery = "SELECT \* from protb "**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('Employee\_Data',**

**con=engine,**

**if\_exists='append')**

**# run a sql query**

**print(engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

**return render\_template('ProductInfo.html', data=engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

**@app.route("/SalesInfo")**

**def SalesInfo():**

**return render\_template('SalesInfo.html')**

**@app.route("/Search")**

**def Search():**

**conn = ibm\_db.connect(dsn, "", "")**

**pd\_conn = ibm\_db\_dbi.Connection(conn)**

**selectQuery = "SELECT \* from protb "**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('Employee\_Data',**

**con=engine,**

**if\_exists='append')**

**# run a sql query**

**print(engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

**return render\_template('ViewProduct.html', data=engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

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

**def viewproduct():**

**searc = request.form['subcat']**

**conn = ibm\_db.connect(dsn, "", "")**

**pd\_conn = ibm\_db\_dbi.Connection(conn)**

**selectQuery = "SELECT \* from protb where SubCategory like '%" + searc + "%' "**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('Employee\_Data',**

**con=engine,**

**if\_exists='append')**

**# run a sql query**

**print(engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

**return render\_template('ViewProduct.html', data=engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

**@app.route("/NewUser")**

**def NewUser():**

**return render\_template('NewUser.html')**

**@app.route("/Newjob")**

**def Newjob():**

**return render\_template('index.html')**

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

**def RNewUser():**

**if request.method == 'POST':**

**name1 = request.form['name']**

**gender1 = request.form['gender']**

**Age = request.form['age']**

**email = request.form['email']**

**address = request.form['address']**

**pnumber = request.form['phone']**

**uname = request.form['uname']**

**password = request.form['psw']**

**conn = ibm\_db.connect(dsn, "", "")**

**insertQuery = "INSERT INTO regtb VALUES ('" + name1 + "','" + gender1 + "','" + Age + "','" + email + "','" + pnumber + "','" + address + "','" + uname + "','" + password + "')"**

**insert\_table = ibm\_db.exec\_immediate (conn, insertQuery)**

**print(insert\_table)**

**return render\_template('userlogin.html')**

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

**def RNewProduct():**

**if request.method == 'POST':**

**file = request.files['fileupload']**

**file.save("static/upload/" + file.filename)**

**ProductId =request.form['pid']**

**Gender =request.form['gender']**

**Category =request.form['cat']**

**SubCategory=request.form['subcat']**

**ProductType=request.form['ptype']**

**Colour=request.form['color']**

**Usage=request.form['usage']**

**ProductTitle=request.form['ptitle']**

**price = request.form['price']**

**Image= file.filename**

**ImageURL="static/upload/" + file.filename**

**conn = ibm\_db.connect(dsn, "", "")**

**insertQuery = "INSERT INTO protb VALUES ('"+ ProductId +"','" + Gender + "','" + Category + "','" + SubCategory + "','" + ProductType + "','" + Colour + "','"+Usage +"','"+ProductTitle+"','"+ Image +"','"+ ImageURL +"','"+ price +"')"**

**insert\_table = ibm\_db.exec\_immediate(conn, insertQuery)**

**data1 = 'Record Saved!'**

**return render\_template('goback.html', data=data1)**

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

**def userlogin():**

**error = None**

**if request.method == 'POST':**

**username = request.form['uname']**

**password = request.form['password']**

**session['uname'] = request.form['uname']**

**conn = ibm\_db.connect(dsn, "", "")**

**pd\_conn = ibm\_db\_dbi.Connection(conn)**

**selectQuery = "SELECT \* from regtb where uname='" + username + "' and password='" + password + "'"**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**if dataframe.empty:**

**data1 = 'Username or Password is wrong'**

**return render\_template('goback.html', data=data1)**

**else:**

**print("Login")**

**selectQuery = "SELECT \* from regtb where uname='" + username + "' and password='" + password + "'"**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('Employee\_Data',**

**con=engine,**

**if\_exists='append')**

**# run a sql query**

**print(engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

**return render\_template('index.html', data=engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

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

**def adminlogin():**

**error = None**

**if request.method == 'POST':**

**username = request.form['uname']**

**password = request.form['password']**

**conn = ibm\_db.connect(dsn, "", "")**

**pd\_conn = ibm\_db\_dbi.Connection(conn)**

**selectQuery = "SELECT \* from admintb where USERNAME='" + username + "' and PASSWORD='" + password + "'"**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**if dataframe.empty:**

**data1 = 'Username or Password is wrong'**

**return render\_template('goback.html', data=data1)**

**else:**

**print("Login")**

**selectQuery = "SELECT \* from regtb "**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('Employee\_Data', con=engine,if\_exists='append')**

**# run a sql query**

**print(engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

**return render\_template('AdminHome.html', data=engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

**@app.route("/Remove", methods=['GET'])**

**def Remove():**

**pid = request.args.get('id')**

**conn = ibm\_db.connect(dsn, "", "")**

**pd\_conn = ibm\_db\_dbi.Connection(conn)**

**insertQuery = "Delete from protb where id='"+ pid +"'"**

**insert\_table = ibm\_db.exec\_immediate(conn, insertQuery)**

**selectQuery = "SELECT \* from protb "**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('Employee\_Data',**

**con=engine,**

**if\_exists='append')**

**# run a sql query**

**print(engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

**return render\_template('ProductInfo.html', data=engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

**@app.route("/fullInfo")**

**def fullInfo():**

**pid = request.args.get('pid')**

**session['pid'] = pid**

**conn = ibm\_db.connect(dsn, "", "")**

**pd\_conn = ibm\_db\_dbi.Connection(conn)**

**selectQuery = "SELECT \* FROM protb where ProductId='" + pid + "' "**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('Employee\_Data',**

**con=engine,**

**if\_exists='append')**

**# run a sql query**

**print(engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

**return render\_template('ProductFullInfo.html', data=engine.execute("SELECT \* FROM Employee\_Data").fetchall())**

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

**def Book():**

**if request.method == 'POST':**

**uname = session['uname']**

**pid = session['pid']**

**qty = request.form['qty']**

**ctype = request.form['ctype']**

**cardno = request.form['cardno']**

**cvno = request.form['cvno']**

**Bookingid = ''**

**ProductName =''**

**UserName= uname**

**Mobile=''**

**Email=''**

**Qty = qty**

**Amount=''**

**CardType = ctype**

**CardNo = cardno**

**CvNo = cvno**

**date = datetime.datetime.now().strftime('%d-%b-%Y')**

**conn = ibm\_db.connect(dsn, "", "")**

**pd\_conn = ibm\_db\_dbi.Connection(conn)**

**selectQuery = "SELECT \* FROM protb where ProductId='" + pid + "' "**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('Employee\_Data',con=engine,if\_exists='append')**

**data = engine.execute("SELECT \* FROM Employee\_Data").fetchall()**

**for item in data:**

**ProductName = item[8]**

**price = item[11]**

**print(price)**

**Amount = float(price) \* float(Qty)**

**print(Amount)**

**selectQuery1 ="SELECT \* FROM regtb where uame='" + uname + "'"**

**dataframe = pandas.read\_sql(selectQuery1, pd\_conn)**

**dataframe.to\_sql('regtb', con=engine, if\_exists='append')**

**data1 = engine.execute("SELECT \* FROM regtb").fetchall()**

**for item1 in data1:**

**Mobile = item1[5]**

**Email = item1[4]**

**selectQuery = "SELECT \* FROM booktb"**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('booktb', con=engine, if\_exists='append')**

**data2 = engine.execute("SELECT \* FROM booktb").fetchall()**

**count = 0**

**for item in data2:**

**count+=1**

**Bookingid="BOOKID00" + str(count)**

**insertQuery = "INSERT INTO booktb VALUES ('" + Bookingid + "','"+ ProductName +"','" + price + "','" + uname + "','" + Mobile + "','" + Email + "','" + str(Qty) + "','" + str(Amount) + "','"+ str(CardType) +"','"+ str(CardNo) +"','"+ str(CvNo) +"','"+ str(date) +"')"**

**insert\_table = ibm\_db.exec\_immediate(conn, insertQuery)**

**sendmsg(Email,"order received delivery in one week ")**

**selectQuery = "SELECT \* FROM booktb where uname= '" + uname + "' "**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('booktb1', con=engine, if\_exists='append')**

**data = engine.execute("SELECT \* FROM booktb1").fetchall()**

**return render\_template('UOrderInfo.html', data=data)**

**def sendmsg(Mailid,message):**

**import smtplib**

**from email.mime.multipart import MIMEMultipart**

**from email.mime.text import MIMEText**

**from email.mime.base import MIMEBase**

**from email import encoders**

**fromaddr = "sampletest685@gmail.com"**

**toaddr = Mailid**

**# instance of MIMEMultipart**

**msg = MIMEMultipart()**

**# storing the senders email address**

**msg['From'] = fromaddr**

**# storing the receivers email address**

**msg['To'] = toaddr**

**# storing the subject**

**msg['Subject'] = "Alert"**

**# string to store the body of the mail**

**body = message**

**# attach the body with the msg instance**

**msg.attach(MIMEText(body, 'plain'))**

**# creates SMTP session**

**s = smtplib.SMTP('smtp.gmail.com', 587)**

**# start TLS for security**

**s.starttls()**

**# Authentication**

**s.login(fromaddr, "hneucvnontsuwgpj")**

**# Converts the Multipart msg into a string**

**text = msg.as\_string()**

**# sending the mail**

**s.sendmail(fromaddr, toaddr, text)**

**# terminating the session**

**s.quit()**

**@app.route("/UOrderInfo")**

**def UOrderInfo():**

**uname = session['uname']**

**conn = ibm\_db.connect(dsn, "", "")**

**pd\_conn = ibm\_db\_dbi.Connection(conn)**

**selectQuery = "SELECT \* FROM booktb where uname= '" + uname + "' "**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('booktb1', con=engine, if\_exists='append')**

**data = engine.execute("SELECT \* FROM booktb1").fetchall()**

**return render\_template('UOrderInfo.html', data=data)**

**@app.route("/UserHome")**

**def UserHome():**

**uname = session['uname']**

**conn = ibm\_db.connect(dsn, "", "")**

**pd\_conn = ibm\_db\_dbi.Connection(conn)**

**selectQuery = "SELECT \* FROM regtb where uname= '" + uname + "' "**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('booktb1', con=engine, if\_exists='append')**

**data = engine.execute("SELECT \* FROM booktb1").fetchall()**

**return render\_template('UserHome.html', data=data)**

**@app.route("/ASalesInfo")**

**def ASalesInfo():**

**conn = ibm\_db.connect(dsn, "", "")**

**pd\_conn = ibm\_db\_dbi.Connection(conn)**

**selectQuery = "SELECT \* FROM booktb "**

**dataframe = pandas.read\_sql(selectQuery, pd\_conn)**

**dataframe.to\_sql('booktb', con=engine, if\_exists='append')**

**data = engine.execute("SELECT \* FROM booktb").fetchall()**

**return render\_template('ASalesInfo.html', data=data)**

**def main():**

**app.run(debug=True, use\_reloader=True)**

**@app.route("/UReviewInfo")**

**def ureview():**

**return render\_template('NewReview.html')**

**if \_\_name\_\_ == '\_\_main\_\_':**

**main()**

**html**

**<!DOCTYPE html>**

**<html lang="en">**

**<head>**

**<!-- Design by foolishdeveloper.com -->**

**<title>job and skill</title>**

**<link rel="preconnect" href="https://fonts.gstatic.com">**

**<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.4/css/all.min.css">**

**<link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;500;600&display=swap" rel="stylesheet">**

**<!--Stylesheet-->**

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

**</head>**

**<body>**

**<div class="background">**

**<div class="shape"></div>**

**<div class="shape"></div>**

**</div>**

**<form id="form1" runat="server" method="post" action="/userlogin">**

**<h3>Login Here</h3>**

**<label for="username">Username</label>**

**<input type="text" placeholder="user name" name="uname" id="username">**

**<label for="password">Password</label>**

**<input type="password" placeholder="Password" name="password" id="password">**

**<button>Log In</button>**

**<div class="social">**

**<div class="go"><a href="/NewUser"> Register</a></div>**

**<div class="fb"><a href="/alogin" > Admin </a></div>**

**</div>**

**</form>**

**</body>**

**</html>**

**<html xmlns="http://www.w3.org/1999/xhtml">**

**<head>**

**<title>job search</title>**

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

**<meta charset="utf-8">**

**<meta name="keywords" content="Cat Club Responsive web template, Bootstrap Web Templates, Flat Web Templates, Android Compatible web template,**

**Smartphone Compatible web template, free webdesigns for Nokia, Samsung, LG, SonyEricsson, Motorola web design" />**

**<script type="application/x-javascript"> addEventListener("load", function() { setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); } </script>**

**<link href='//fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='static/css'>**

**<link href="//fonts.googleapis.com/css?family=Raleway:100,100i,200,200i,300,300i,400,400i,500,500i,600,600i,700,700i,800,800i,900,900i" rel="stylesheet">**

**<link href='//fonts.googleapis.com/css?family=Roboto+Condensed:400,700italic,700,400italic,300italic,300' rel='stylesheet' type='static/static/text/css'>**

**<script src="static/js/jquery-1.11.1.min.js"></script>**

**<script src="static/js/bootstrap.js"></script>**

**<script type="text/javascript">**

**jQuery(document).ready(function ($) {**

**$(".scroll").click(function (event) {**

**event.preventDefault();**

**$('html,body').animate({ scrollTop: $(this.hash).offset().top }, 1000);**

**});**

**});**

**</script>**

**<script src="https://kit.fontawesome.com/a076d05399.js" crossorigin="anonymous"></script>**

**<style>**

**a{**

**text-decoration: none;**

**color: black;**

**}**

**nav{**

**background: grey;**

**height: 80px;**

**width: 100%;**

**}**

**nav ul{**

**float: right;**

**margin-right: 20px;**

**}**

**nav ul li{**

**display: inline-block;**

**line-height: 60px;**

**margin: 0 5px;**

**}**

**nav ul li a{**

**color: white;**

**font-size: 17px;**

**padding: 7px 13px;**

**border-radius: 3px;**

**text-transform: uppercase;**

**}**

**a.active,a:hover{**

**background: #1b9bff;**

**transition: .5s;**

**}**

**.checkbtn{**

**font-size: 30px;**

**color: white;**

**float: right;**

**line-height: 80px;**

**margin-right: 40px;**

**cursor: pointer;**

**display: none;**

**}**

**#check{**

**display: none**

**}**

**@media (max-width: 952px){**

**nav ul li a{**

**font-size: 16px;**

**}**

**}**

**@media (max-width: 858px){**

**.checkbtn{**

**display: block;**

**}**

**ul{**

**position: fixed;**

**width: 100%;**

**height: 100vh;**

**background: #2c3e50;**

**top: 80px;**

**left: -100%;**

**text-align: center;**

**transition: all .5s;**

**}**

**nav ul li{**

**display: block;**

**margin: 50px 0;**

**line-height: 30px**

**}**

**nav ul li a{**

**font-size: 20px;**

**}**

**a:hover,a.active{**

**background: none;**

**color: #0082e6;**

**}**

**#checkchecked ~ ul{**

**left: 0;**

**}**

**}**

**</style>**

**</head>**

**<body style="background-color: #080710; color: white;">**

**<h1 align= 'center'>**

**<a style="color: white; " href="/">JOB SEARCH</a>**

**</h1>**

**<nav> <input type="checkbox" id="check" >**

**<label for="check" class="checkbtn">**

**<i class="fas fa-bars"></i></label>**

**<ul>**

**<li><a href="/">Home</a></li>**

**<li><a href="/adminlogin">Admin Login</a></li>**

**<li><a href="/UserLogin">User Login</a></li>**

**<li><a href="/RNewUser">New User</a></li>**

**</ul> </nav>**

**<form id="form" name="form" method="post" action="/RNewUser">**

**<div align="center" ><h2> <strong>New User Registration</strong> </h2> </div>**

**<table width="35%" border="0" align="center">**

**<tr>**

**<td></td>**

**</tr>**

**<tr>**

**<td width="45%" height="48">Name</td>**

**<td width="55%"><input name="name" type="text" id="name" required pattern="[A-Za-z ]{3,32}"/>**

**</td>**

**</tr>**

**<tr>**

**<td height="50">Gender</td>**

**<td><input name="gender" type="radio" value="male" required />**

**Male**

**<input name="gender" type="radio" value="female" />**

**Female</td>**

**</tr>**

**<tr>**

**<td height="49">Age</td>**

**<td>**

**<input name="age" type="text" id="age" required size="3" />**

**</td>**

**</tr>**

**<tr>**

**<td height="48">Email Id</td>**

**<td><input name="email" type="email" id="email" required /></td>**

**</tr>**

**<tr>**

**<td height="46">Phone Number </td>**

**<td><input name="phone" type="text" id="phone" required size="10" pattern="[0-9]{10}"/></td>**

**</tr>**

**<tr>**

**<td height="50">Address</td>**

**<td><textarea name="address" id="address" required></textarea></td>**

**</tr>**

**<tr>**

**<td height="40">User Name</td>**

**<td><input name="uname" type="text" id="uname" required/></td>**

**</tr>**

**<tr>**

**<td height="53">Passwrod</td>**

**<td><input name="psw" type="password" id="psw" required/></td>**

**</tr>**

**<tr>**

**<td height="72">&nbsp;</td>**

**<td><input name="btn" type="submit" id="btn" value="Submit" />**

**<input type="reset" name="Submit2" value="Reset" /></td>**

**</tr>**

**</table>**

**</form>**

**<!-- copyright -->**

**<div class="copyright">**

**<div class="container">**

**<p>© All rights reserved | Design by <a href="#">JOB AND SKILL</a></p>**

**</div>**

**</div>**

**<!-- //copyright -->**

**<script src="static/js/responsiveslides.min.js"></script>**

**<script src="static/js/SmoothScroll.min.js"></script>**

**<script type="text/javascript" src="static/js/move-top.js"></script>**

**<script type="text/javascript" src="static/js/easing.js"></script>**

**<!-- here stars scrolling icon -->**

**<script type="text/javascript">**

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

**/\***

**var defaults = {**

**containerID: 'toTop', // fading element id**

**containerHoverID: 'toTopHover', // fading element hover id**

**scrollSpeed: 1200,**

**easingType: 'linear'**

**};**

**\*/**

**$().UItoTop({ easingType: 'easeOutQuart' });**

**});**

**</script>**

**<!-- //here ends scrolling icon -->**

**</body>**

**</html>**

**<html xmlns="http://www.w3.org/1999/xhtml">**

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**<nav> <input type="checkbox" id="check" >**

**<label for="check" class="checkbtn">**

**<i class="fas fa-bars"></i></label>**

**<ul>**

**<li><a href="/">Home</a></li>**

**<li><a href="/adminlogin">Admin Login</a></li>**

**<li><a href="/UserLogin">User Login</a></li>**

**<li><a href="/RNewUser">New User</a></li>**

**</ul> </nav>**

**<form id="form" name="form" method="post" action="/RNewUser">**

**<div align="center" ><h2> <strong>New User Registration</strong> </h2> </div>**

**<table width="35%" border="0" align="center">**

**<tr>**

**<td></td>**

**</tr>**

**<tr>**

**<td width="45%" height="48">Name</td>**

**<td width="55%"><input name="name" type="text" id="name" required pattern="[A-Za-z ]{3,32}"/>**

**</td>**

**</tr>**

**<tr>**

**<td height="50">Gender</td>**

**<td><input name="gender" type="radio" value="male" required />**

**Male**

**<input name="gender" type="radio" value="female" />**

**Female</td>**

**</tr>**

**<tr>**

**<td height="49">Age</td>**

**<td>**

**<input name="age" type="text" id="age" required size="3" />**

**</td>**

**</tr>**

**<tr>**

**<td height="48">Email Id</td>**

**<td><input name="email" type="email" id="email" required /></td>**

**</tr>**

**<tr>**

**<td height="46">Phone Number </td>**

**<td><input name="phone" type="text" id="phone" required size="10" pattern="[0-9]{10}"/></td>**

**</tr>**

**<tr>**

**<td height="50">Address</td>**

**<td><textarea name="address" id="address" required></textarea></td>**

**</tr>**

**<tr>**

**<td height="40">User Name</td>**

**<td><input name="uname" type="text" id="uname" required/></td>**

**</tr>**

**<tr>**

**<td height="53">Passwrod</td>**

**<td><input name="psw" type="password" id="psw" required/></td>**

**</tr>**

**<tr>**

**<td height="72">&nbsp;</td>**

**<td><input name="btn" type="submit" id="btn" value="Submit" />**

**<input type="reset" name="Submit2" value="Reset" /></td>**

**</tr>**

**</table>**

**</form>**

**<!-- copyright -->**

**<div class="copyright">**

**<div class="container">**

**<p>© All rights reserved | Design by <a href="#">JOB AND SKILL</a></p>**

**</div>**

**</div>**

**<!-- //copyright -->**

**<script src="static/js/responsiveslides.min.js"></script>**

**<script src="static/js/SmoothScroll.min.js"></script>**

**<script type="text/javascript" src="static/js/move-top.js"></script>**

**<script type="text/javascript" src="static/js/easing.js"></script>**

**<!-- here stars scrolling icon -->**

**<script type="text/javascript">**

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

**/\***

**var defaults = {**

**containerID: 'toTop', // fading element id**

**containerHoverID: 'toTopHover', // fading element hover id**

**scrollSpeed: 1200,**

**easingType: 'linear'**

**};**

**\*/**

**$().UItoTop({ easingType: 'easeOutQuart' });**

**});**

**</script>**

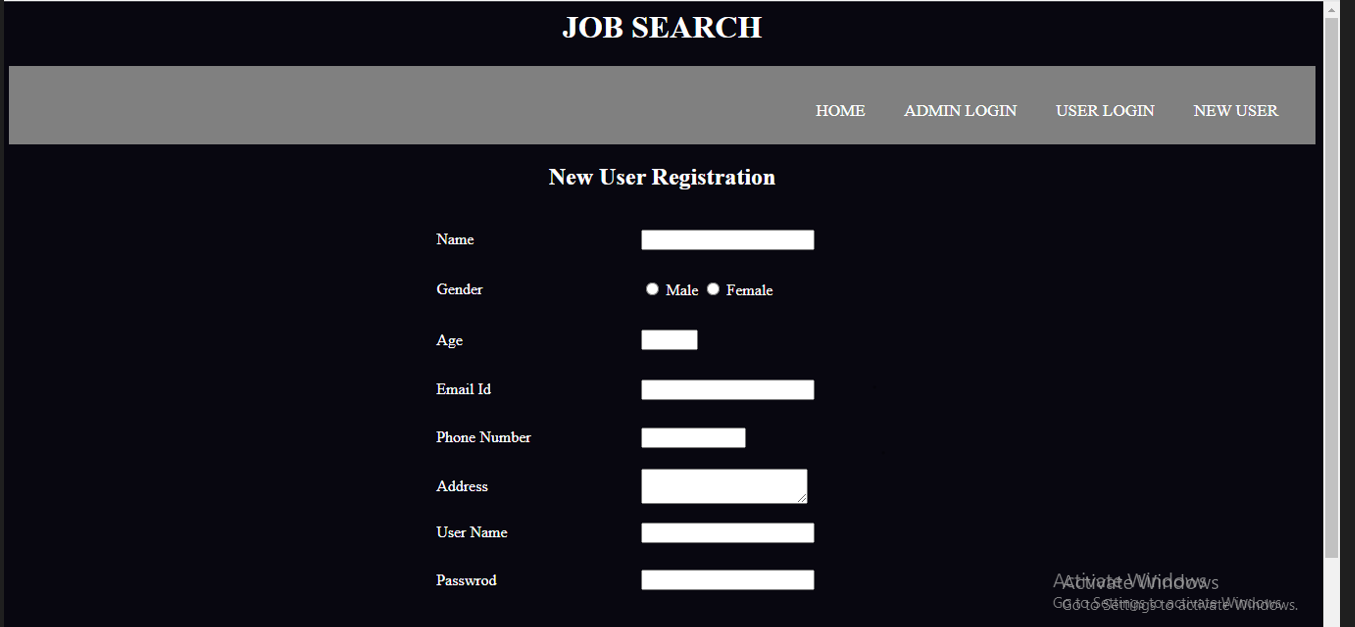
**<!-- //here ends scrolling icon -->**

**</body>**

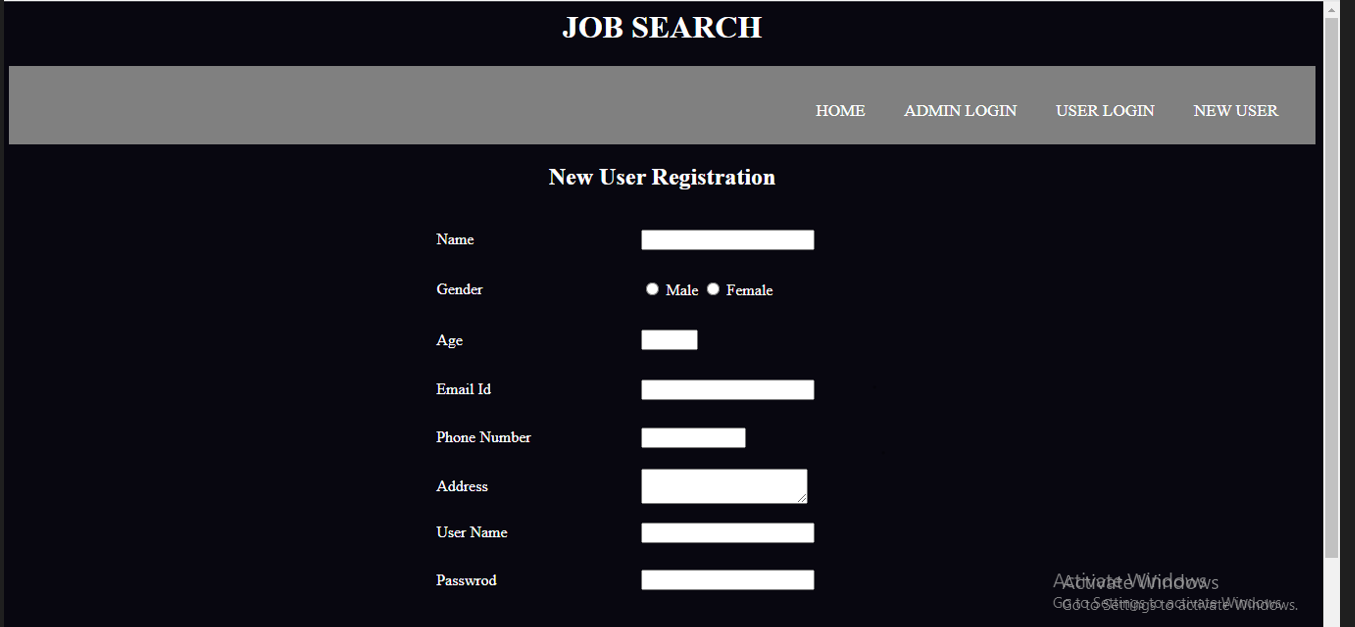
**</html>**

**9 RESULT**

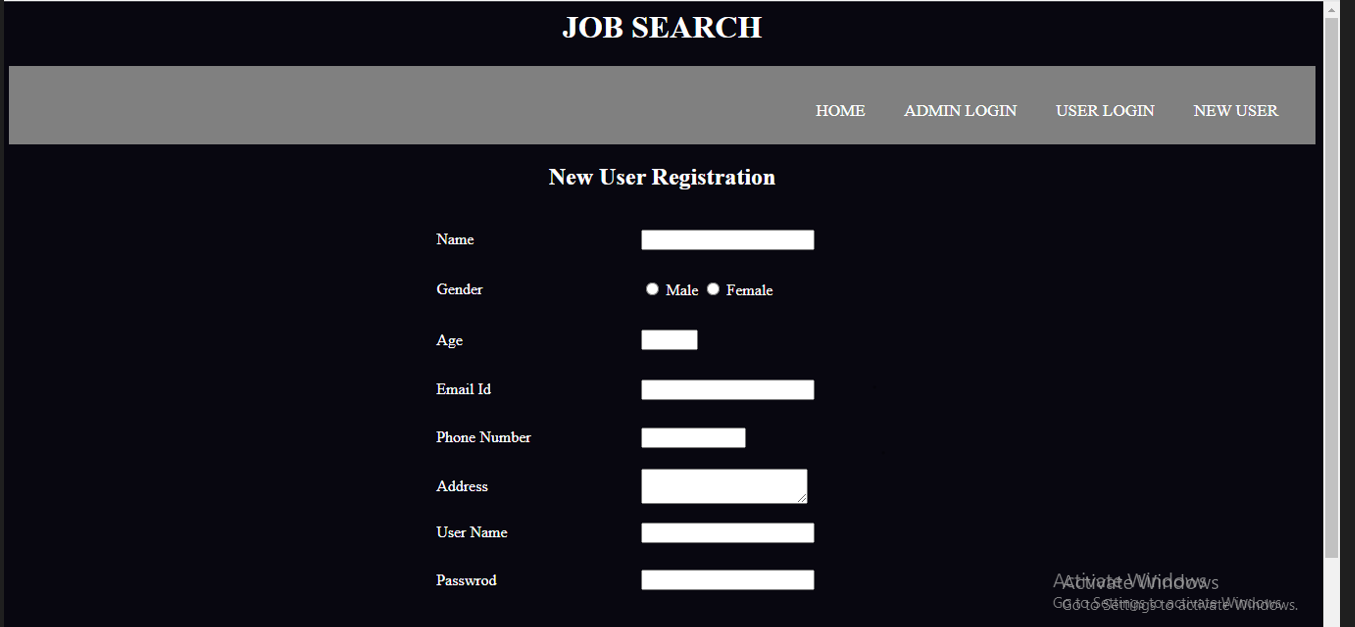
**Registration**



**Recommented jobs**



**Perfect job**



**10 ADVANTAGES & DISADVANTAGES:**

**ADVANTAGES:**

* + - It provides the user-friendly account
    - We can provide job recommendation
    - Its user friendly

**DISADVANTAGES:**

* Its not deployed in real time implementation
* It’s not support when job seakers high

**11 CONCLUSIONS:**

a novel blended approach that leverages progression of job selection by candidates and attempts to make job recommendations serendipitous. Using blended methods, recommendations suggested to candidates are based on their interaction history with jobs, along with jobs that are a) similar to the other jobs applied by the candidate and b) Figure 4: Bi-LSTM model with Attention applied by similar candidates. Our approach naturally solves the candidate and job cold-start problem in the absence of interaction data. We also demonstrated the use of latent competency groups which expand the job skill requirements and the candidate skills thereby attempting to reveal latent competencies and achieve more coverage in the skill domain. Using our methodology, we see a relative increase in clickthrough rates of candidates visiting our portal and applying for jobs.

**12 FUTURE SCOPE:**

In future scope we implemented real time implementation A letter of recommendation is **a letter from a professional contact in your network—past or present—endorsing you for a job or position**. This letter is a testament on behalf of the writer that you possess the necessary skills, positive demeanor, and potential to be successful in the role you're seeking. In this paper, we presented a job recommender model aiming to extract meaningful data from job postings using text-clustering methods. As a result, job offers are divided into job clusters based on their common features and job offers are matched to job seekers according to their interactions. Our future Work will focus on training and evaluating our model using Word2vec method and k-means clustering algorithms used to capture and represent the context of job profiles. Subsequently, it will be easy to match set of job offers to a given job seeker based on its past interactions toward specific job offers. The dataset that will be used is built from scraping job search websites.

**SOURCE CODE:**

**GITHUB & PROJECT DEMO LINK:**