**A Resume Evaluation System Based on Text Mining**

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**LIST OF SYSMBOLS**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.NO** | **NOTATION**  **NAME** | **NOTATION** | **DESCRIPTION** |
| 1. | Class | *Class Name*  *-attribute*  *-attribute*  *+operation*  *+operation*  *+operation*  *+ public*  *-private*  *# protected* | Represents a collection of similar entities grouped together. |
| 2. | Association | name  Class B  Class A  Class A  Class B | Associations represents static relationships between classes. Roles represents the way the two classes see each other. |
| 3. | Actor | Class A  Class A  Class B  Class B | It aggregates several classes into a single classes. |
| 4. | Aggregation | Interaction between the system and external environment |

|  |  |  |  |
| --- | --- | --- | --- |
| 5. | Relation  (uses) | uses | Used for additional process communication. |
| 6. | Relation  (extends) | extends | Extends relationship is used when one use case is similar to another use case but does a bit more. |
| 7. | Communication |  | Communication between various use cases. |
| 8. | State | State | State of the processs. |
| 9. | Initial State |  | Initial state of the object |
| 10. | Final state |  | F inal state of the object |
| 11. | Control flow |  | Represents various control flow between the states. |
| 12. | Decision box |  | Represents decision making process from a constraint |
| 13. | Usecase |  | Interact ion between the system and external environment. |

|  |  |  |  |
| --- | --- | --- | --- |
| 14. | Component |  | Represents physical modules which are a collection of components. |
| 15. | Node |  | Represents physical modules which are a collection of components. |
| 16. | Data Process/State |  | A circle in DFD represents a state or process which has been triggered due to some event or acion. |
| 17. | External entity |  | Represents external entities such as keyboard,sensors,etc. |
| 18. | Transition |  | Represents communication that occurs between processes. |
| 19. | Object Lifeline |  | Represents the vertical dimensions that the object communications. |
| 20. | Message | Message | Represents the message exchanged. |

**LIST OF ABBREVATION**

|  |  |  |
| --- | --- | --- |
| **S.NO** | **ABBREVATION** | **EXPANSION** |
| 1**.** | DB | DataBase |
| 2. | JVM | Java Virtual Machine |
| 3. | JSP | Java Server Page |
| 4. | PWS | Personalised Web Search |
| 5. | UPS | User Personalised Search |
| 6. | JRE | Java Runtime Environment |

**CHAPTER 1**

**INTRODUCTION**

* 1. **GENERAL**

Artificial intelligence (AI) technology is developing rapidly and is quickly becoming a part of daily life. AI can be adopted to help people in the workplace. For example, AI can be used to assist interviewers. Applying AI in interviews is advantageous because an AI interviewer does not treat interviewees differently because of personal, mental, or physical traits or other external conditions, unlike human interviewers [1].

During interviews, interviewers tend to make unscientific or irrational decisions because of their subjective views and personal emotions; consequently, the opportunity to hire talented individuals can be missed. Because hiring an excellent staff is critical for the success of a firm, all enterprises strive to discover and hire people with considerable talent and potential. Additionally, when job applicants contact any human resources (HR) department or employer, they can generally recognize whether the company is concerned about fairly treating each applicant. The perceived level of fairness can create an impression, good or bad, of the company in the mind of an applicant. Such impressions can lead to acceptance or rejection of an offer of a second-round interview, and thus affect the opportunity for the company to recruit and hire top candidates [2]. Furthermore, candidates, including top candidates, can be affected by their physical and mental status on the date of interview. They can be nervous and underperform or experience stage fright; consequently, they may be overlooked by interviewers despite their considerable abilities. Besides, a conventional interview is limited by time and location, leading to the waste of resources by employers and interview rejections by potential candidates.

To solve this HR problem, businesses have begun to incorporate AI into HR tasks, giving rise to AI-based job matching. Gartner, a global research and advisory firm, indicated that roughly 1.8 million jobs will be replaced by AI by 2020; however, AI will also create 2.3 million jobs that expand the labor market [3]. Similar to major past labor revolutions, AI may lead to technology-related unemployment, but it may also prompt industrial transformation. Although millions of low–mid level jobs might be replaced by AI, AI will likely create more positions, including high-tech jobs, management positions, and even entry-level and low-tech jobs of a different nature.

This study developed an AI-based interviewing system to reduce the loss of talent caused by the emotional reactions and subjectivity of interviewers when viewing résumés. The designed system performs the function of résumé assessment and explores the personality traits of candidates by classifying them into four dimensions of soft power, namely dominance, influence, steadiness, and compliance (DISC) after assessing the submitted electronic résumés. This system also assesses three dimensions of competence, namely education and experience, skills, and personality traits, which are indicated by the information contained in a résumé (e.g., education, experience, specialties, and autobiography). The system examines the aforementioned data by collecting the current job market demands on the internet, performing Chinese natural language processing, and analyzing the big data relevant to the position in question. The results of this examination can help determine the quality of the match between job applicants and a business. Finally, the designed system quantifies the aforementioned DISC data and three competency dimensions by scoring each résumé. The results are then compiled into a report that contains the personal analysis, ranking, and distribution forecast for the candidate in question.

**1.2 OBJECTIVE**

This study explored the application of interview robots on recruitment process. By adopting techniques including web crawling, text mining, and natural language processing, this study developed an effective system that matches job candidates with recruiters. The designed system analyzed electronic résumés in Traditional Chinese, on which the words were graded according to the job market on the Internet and implemented with techniques related to big data. The results demonstrated that the designed system identified the current demand on talent-seeking and quickly presented candidate rankings for a specific position, thereby fulfilling the needs of both job-hunting candidates and talent-seeking recruiters.

**1.3 EXISTING SYSTEM**

In this they have used Web Crawler, This algorithm uses text mining to collect, analyze, and visualize local job data. The authors used web crawlers, keyword analysis, and a program written in the R language for data analysis and visualization to match job applicants with businesses. These technologies could help vocational and educational institutions to develop talent. During interviews, interviewers tend to make unscientific or irrational decisions because of their subjective views and personal emotions; consequently, the opportunity to hire talented individuals can be missed. A conventional interview is limited by time and location, leading to the waste of resources by employers and interview rejections by potential candidates.

**1.3.1 EXISTINGSYSTEM DISADVANTAGES**

1. Time taking
2. Loss of potential candidates
3. More number of resources are required for evaluation.

**1.3.2 LITERATURE SURVEY:**

**Title:** Discovering Job Market Trends with Text Analytics.

**Author:** Raymond Blanch Mbah, Manjeet Rege, Bhabani Misra.

**Year: 2018**

**Description:**

Due to the current dynamic and competitive nature of job markets especially the IT job market, it has become incumbent for organizations and businesses to stay informed about the current job market trends. Staying current with trends entails collecting and analyzing huge amounts of data which in the past, has always involved a great deal of manual work. In this paper, we present out work on collecting, analyzing and visualizing local job data using text mining techniques. We also discuss technologies used such as: cron jobs for automation; Java for API data collection and web scrapping, Elastic search for data subsetting and keyword analysis, and R for data analysis and visualization. We expect this work to be of relevance to a diverse range of job seekers as well as employers and educational institutions.

**Title**: Research on Information Collection Method of Shipping Job Hunting Based on Web Crawler.

**Author:** Dongcheng Peng, Tieshan Li,Yang Wang,C. L. Philip Chen.

**Year: 2018**

**Description:**

In recent years, with the increasing development of Artificial Intelligence, Big Data and Cloud computing, etc., the information on the Internet has been booming, so how to obtain target information efficiently and quickly has become an urgent problem to be solved. This article aims at the data collection and acquisition problem of shipping job hunting information under the network environment. In this study, two kinds of information collection methods for shipping job hunting based on web crawler are proposed. Based on the Python standard libraries and Scrapy crawl framework, corresponding web crawler program is designed and implemented to scrape the target information from target website and store the collected data into local file eventually. Through the amount of data crawled and time consuming comparative analysis, the result demonstrates that the data collection method based on the Scrapy crawler framework is simple to operate, easily extensible, featuring being targeted, with high efficiency and fast speed in collecting shipping job hunting information. Fortunately, the collected data can not only help researchers conduct subsequent data mining analysis, but also can provide data support for the follow-up shipping job hunting information database.

**Title**: Simplified Recruitment Model Using Text-Mining on Psychometric and Aptitude Tests.

**Author:** Shreya Sawleshwarkar, Nisha Rangnani, Vijeta Mariwalla,Aparna Halbe

**Year: 2018**

**Description:**

In the present day working scenario, job recruitment has become a time-consuming process for the HR department. Not only that, the results of the prevailing recruitment system are often unsatisfactory, as reflected in the frequent job changes, employee dissatisfaction and overall inefficiency. Through the proposed model, we plan to simplify and automate the process with an additional stress of psychometric tests. Psychometric tests prove to be useful in mapping the personality, aptitude and qualities of candidates with the jobs they are applying for. Text mining is performed on the answers, based on a scoring mechanism that serves to produce a shortlist for a given job. This model can work for several recruitment areas and jobs, as need be.

**Title**: VR Job Interview Simulator: Where Virtual Reality Meets Artificial Intelligence for Education.

**Author**: Iulia Stanica, Maria-Iuliana Dascalu, Constanta Nicoleta Bodea, Alin Dragos Bogdan Moldoveanu.

**Year: 2018**

**Description:**

Nowadays, people have to face many challenges when going to an interview: introversion, insecurity, lack of technical or social skills. Training becomes highly recommended in order to improve interview performances. The current paper presents VR Job, an application which proposes an innovative way of training for an interview. By combining the advantages of various technologies, such as virtual reality and chatbots, our application creates an interactive way of helping software engineers train for their interviews. Emotion recognition techniques are also included, helping provide accurate feedback for the user.

**Title**: Mining for Computing Jobs

**Author**: Andrew Aken, Chuck Litecky, Altaf Ahmad, Jim Nelson

**Year: 2009**

**Description:**

A Web content mining approach identified 20 job categories and the associated skills needs prevalent in the computing professions. Using a Web content data mining application, we extracted almost a quarter million unique IT job descriptions from various job search engines and distilled each to its required skill sets. We statistically examined these, revealing 20 clusters of similar skill sets that map to specific job definitions. The results allow software engineering professionals to tune their skills portfolio to match those in demand from real computing jobs across the US to attain more lucrative salaries and more mobility in a chaotic environment.

**Title**: Automated CV processing along with psychometric analysis in job recruiting process

**Author**: Firoz Ahmed, Mehrin Anannya, Tanvir Rahman, Risala Tasin Khan

**Year: 2015**

**Description:**

In this paper we have proposed automated job recruiting process along with psychometric analysis. Here the focus has been given in automating the job applying and CV processing system. A social networking website for the job seekers and employers is proposed to develop which will forward CV to the desired company or organizations automatically by matching the required criteria instead of traditional job searching and applying process. With the help of the website, the job organizations would be able to choose the efficient and right person for the right job among the applicants on the basis of Psychometric analysis and also it will increase the job satisfaction among the employees.

**Title**: Resume Parser: Semi-structured Chinese Document Analysis

**Author**: Zhang Chuang, Wu Ming, Li Chun Guang, Xiao Bo, Lin Zhi-qing

**Year: 2009**

**Description:**

Semi-structured Chinese document analysis is the most difficult task for complex structure and Chinese semantics. According to the generic characteristics of the semi-structured document and the specific characteristics of the resume document, the paper researched on resume document block analysis based on pattern matching, multi-level information identification and feedback control algorithms was also prompted. Based on the research, resume parser system was implemented for China HR, which is the biggest recruitment Website. It can read, analysis, retrieval and store the information automatically. According to all kinds of experiments results, the accuracy and efficiency of this system can generally satisfy the practical requirements. As the research on the processing of the semi-structured document, it will not only be as a directive of the further research on the resume analysis, but also be as the reference to other form of the semi-structured document.

**1.4 PROPOSED SYSTEM**

In this paper, we propose Dominance, Influence, Steadiness, and Compliance (DISC). The system collects phrases related to the DISC traits and three competency dimensions to build a basis for quantification and scoring in later stages. The designed system delivers visualized data reports to users after performing big data computation. During interviews, interviewers tend to make unscientific or irrational decisions because of their subjective views and personal emotions; consequently, the opportunity to hire talented individuals can be missed. To solve HR problem, businesses have begun to incorporate AI into HR tasks, giving rise to AI-based job matching. Our AI-based interviewing system to reduce the loss of talent caused by the emotional reactions and subjectivity of interviewers when viewing resumes.

**1.4.1 PROPOSED SYSTEM ADVANTAGES**

* Limited resources are sufficient.
* Easy to use and evaluation process requires much less time.

**CHAPTER 2**

**PROJECT DESCRIPTION**

**2.1 GENERAL:**

This study aimed to effectively score résumés. The resulting reports can then serve as a reference for HR departments or employers. Furthermore, job applicants can benefit because the system can prevent unfair treatment during an interview. The system not only saves businesses personnel costs but also mitigates the limitations of time and space using the Internet. The designed system produces a final report that is delivered to both the job recruiting company and job applicant and can serve as a reference for both parties to understand each other’s needs, thereby facilitating achievement of a win–win situation. Because information technologies (ITs) such as AI, big data, and cloud computing are thriving, IT jobs are particularly competitive in the current employment market. Firms must understand the current employment market. Adopting effective approaches that enable firms to quickly acquire targeted information is essential because online information is increasingly abundant. Researchers can perform language processing and analysis on the data collected by a web crawler. For example, Peng et al. adopted the web-crawling framework Scrapy and designed a web-crawling program that was used to collect recruitment data concerning the shipping industry. Such a program is an ideal tool for researchers to conduct relevant analyses in the future.

**2.2 METHODOLOGIES**

**MODULES**

**1. Seeker**

**2. HR**

**3. Admin**

**4. Robot**

1.**Seeker:**

A seeker first need to Register and Login with a valid mail –Id and password. Than Seeker need to give profile. Seeker can able to see all notifications of HR and Seeker can apply which is suitable to they own profile. Seekers will get reply from HR.

Register/login

Add profile

HR Notifications

Data Base

Apply Job

**2. HR**

First hr need to register and hr can able to add notifications. Hr can able to see all Seekers list they can select which profile is suitable to they own requirements. Admin will give valid seeker’s list which is already evaluated by Robot.

Register

& Login

Add Notifications

Choose Seeker

Updates

Data Base

**3. Admin**

An admin need to login and they can able to see all the information about seekers and HR. Admin will get an information from Robot and Admin will give that update to HR, Which mean Admin can act like a mediator in between Robot and HR.

Login

HR & Seeker’s list

Updates from robot

Data base

**4. Robot**

This module is main module, because it’s playing very important role in this project. To solve this HR problem, businesses have begun to incorporate AI into HR tasks, giving rise to AI-based job matching. Robot will evaluate the Resume’s of Seekers. Robot will give updates to Admin.

Seeker’s List

Applied Seekers

Resume Evaluation

Give Update

Data Base

**GIVEN INPUT EXPECTED OUTPUT:**

* **Job Seeker**

Input : Register and login with a valid name Mail-Id and password and upload profile. Seeker can able to see all notifications of HR and they can apply.

Output : Based on profile robot will evaluate the resume and Hr will give reply.

* **HR**

Input : HR first need to register and login with valid name and password. HR can able to add notifications and HR can able to see Seekers list.

Output : HR will get Updates from Admin and HR need to give updates to Seekers.

* **Admin**

Input : Admin need login and admin can able to see all Information about Seekers and HR’s.

Input : Admin will get updates from Robot and need to pass that updates to HR about seekers.

* **Robot**

Input : Robot playing a very important role in this project. Robot will do resume evaluate and robot can able to choose seekers.

Output : Robot will give response to admin about the seekers based on their requirements.

**CHAPTER 3**

**REQUIREMENTS ENGINEERING**

**3.1 GENERAL**

We have conducted experiments on our collected dataset and extensive results have demonstrated that our model outperforms all other existing models. In the future, we will investigate more tasks under this framework, such as event summarization and event attribute mining in social media.

**3.2 HARDWARE REQUIREMENTS**

The hardware requirements may serve as the basis for a contract for the implementation of the system and should therefore be a complete and consistent specification of the whole system. They are used by software engineers as the starting point for the system design. It shouls what the system do and not how it should be implemented.

* PROCESSOR : DUAL CORE 2 DUOS.
* RAM : 2GB DD RAM
* HARD DISK : 250 GB

**3.3 SOFTWARE REQUIREMENTS**

The software requirements document is the specification of the system. It should include both a definition and a specification of requirements. It is a set of what the system should do rather than how it should do it. The software requirements provide a basis for creating the software requirements specification. It is useful in estimating cost, planning team activities, performing tasks and tracking the teams and tracking the team’s progress throughout the development activity.

**SOFTWARE REQUIREMENTS**

* FRONT END : J2EE (JSP, SERVLET)
* BACK END : MY SQL 5.5
* OPERATING SYSTEM : WINDOWS 7
* IDE : ECLIPSE

**3.4 FUNCTIONAL REQUIREMENTS**

A functional requirement defines a function of a software-system or its component. A function is described as a set of inputs, the behavior, Firstly, the system is the first that achieves the standard notion of semantic security for data confidentiality in attribute-based deduplication systems by resorting to the hybrid cloud architecture.

**CHAPTER 4**

**DESIGN ENGINEERING**

**4.1 GENERAL**

Design Engineering deals with the various UML [Unified Modelling language] diagrams for the implementation of project. Design is a meaningful engineering representation of a thing that is to be built. Software design is a process through which the requirements are translated into representation of the software. Design is the place where quality is rendered in software engineering. Design is the means to accurately translate customer requirements into finished product.

**4.2 Use Case Diagram**



**EXPLANATION:**

The main purpose of a use case diagram is to show what system functions are performed for which actor. Roles of the actors in the system can be depicted. The above diagram consists of user as actor. Each will play a certain role to achieve the concept.

**4.3 Class Diagram**



**EXPLANATION**

In this class diagram represents how the classes with attributes and methods are linked together to perform the verification with security. From the above diagram shown the various classes involved in our project.

**4.4 Object Diagram**



**EXPLANATION:**

In the above digram tells about the flow of objects between the classes. It is a diagram that shows a complete or partial view of the structure of a modeled system. In this object diagram represents how the classes with attributes and methods are linked together to perform the verification with security.

**4.5 Component Diagram**



**EXPLANATION:**

In the Unified Modeling Language, a component diagram depicts how components are wired together to form larger components and or software systems. They are used to illustrate the structure of arbitrarily complex systems. User gives main query and it converted into sub queries and sends through data dissemination to data aggregators. Results are to be showed to user by data aggregators. All boxes are components and arrow indicates dependencies.

**4.6 Deployment Diagram**

****

**4.7 Sequence Diagram**



**EXPLANATION:**

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control.

**4.8 Collaboration Diagram**



**4.9 State Diagram**



**EXPLANATION:**

State diagram are a loosely defined diagram to show workflows of stepwise activities and actions, with support for choice, iteration and concurrency. State diagrams require that the system described is composed of a finite number of states; sometimes, this is indeed the case, while at other times this is a reasonable abstraction. Many forms of state diagrams exist, which differ slightly and have different semantics.

**4.10 Activity Diagram**



**EXPLANATION:**

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control.

**4.11 Data Flow Diagram**

**Level 0**

Register

Home Page

Login

Verify Details

Data base

Error page

**Level 1**

Login

Apply job

Reply from hr

Login

Add notifications

Admin updates

Reply to seeker

Login

Updates from robot

Updates to HR

Resume evaluate

Updates to admin

Data base

**4.12 E-R Diagram**

Seeker

Login

Apply

Reply from hr

Hr

Login

Add notifications

Updates from admin

Admin

Updates from robot

Reply to hr

Robot

List of seekers

Resume Evaluation

Update to admin

Data base

**EXPLANATION:**

Entity-Relationship Model (ERM) is an abstract and conceptual representation of data. Entity-relationship modeling is a database modeling method, used to produce a type of conceptual schema or semantic data model of a system, often a relational database.

**4.13 System Architecture**

Seeker

Apply

HR

Add notifications

Admin

Updates from robot

Reply to Hr

Robot

Resume Evaluate

Updates of admin

Reply from hr

**Explanation**

In this project, There are seeker, hr, admin and robot. First seeker need to register and need to provide profile. HR has to login and can able to add notifications. Seeker will get all notifications from hr and they can apply. Hr will get applications and hr can send any of the profile to robot. Than robot will perform resume evaluation and robot will give feedback to Admin than admin will give updates to hr an hr will give update to seeker.

**4.11 CONCLUSION**

In the system designed in this study, computing is performed on the basis of two models, namely DISC and the three competency dimensions. After a résumé is processed using these two models, the system produces a real-time online report that informs candidates of their soft power attributes (i.e., DISC dimensions) and competency ranking and shortcomings; this is a useful tool for self-evaluation. Recruiters can also understand job candidates through these online reports; the reports can serve as a reference for talent selection and evaluation.

**CHAPTER 5**

**DEVELOPMENT TOOLS**

* 1. **GENERAL**

This chapter is about the software language and the tools used in the development of the project. The platform used here is JAVA. The Primary languages are JAVA,J2EE and J2ME. In this project J2EE is chosen for implementation.

**5.2 FEATURES OF JAVA**

**5.2.1 THE JAVA FRAMEWORK**

**Java** is a programming language originally developed by James Gosling at Microsystems and released in 1995 as a core component of Sun Microsystems' Java platform. The language derives much of its syntax from C and C++ but has a simpler object model and fewer low-level facilities. Java applications are typically compiled to byte code that can run on any Java Virtual Machine (JVM) regardless of computer architecture. Java is general-purpose, concurrent, class-based, and object-oriented, and is specifically designed to have as few implementation dependencies as possible. It is intended to let application developers "write once, run anywhere".

Java is considered by many as one of the most influential programming languages of the 20th century, and is widely used from application software to web applications the java framework is a new platform independent that simplifies application development internet. Java technology's versatility, efficiency, platform portability, and security make it the ideal technology for network computing. From laptops to datacenters, game consoles to scientific supercomputers, cell phones to the Internet, Java is everywhere!

**5.2.2 OBJECTIVES OF JAVA**

To see places of Java in Action in our daily life, explore java.com.

## Why Software Developers Choose Java

Java has been tested, refined, extended, and proven by a dedicated community. And numbering more than 6.5 million developers, it's the largest and most active on the planet. With its versatility, efficiency, and portability, Java has become invaluable to developers by enabling them to:

* Write software on one platform and run it on virtually any other platform
* Create programs to run within a Web browser and Web services
* Develop server-side applications for online forums, stores, polls, HTML forms processing, and more
* Combine applications or services using the Java language to create highly customized applications or services
* Write powerful and efficient applications for mobile phones, remote processors, low-cost consumer products, and practically any other device with a digital heartbeat

## Some Ways Software Developers Learn Java

Today, many colleges and universities offer courses in programming for the Java platform. In addition, developers can also enhance their Java programming skills by reading Sun's java.sun.com Web site, subscribing to Java technology-focused newsletters, using the Java Tutorial and the New to Java Programming Center, and signing up for Web, virtual, or instructor-led courses.

**ObjectOriented**

To be an Object Oriented language, any language must follow at least the four characteristics.

1. Inheritance   :It is the process of creating the new classes and using the behavior of the existing classes by extending them just to reuse  the existing code and adding addition a features as needed.

2. Encapsulation: It is the mechanism of combining the information and providing the abstraction.

3. Polymorphism: As the name suggest one name multiple form, Polymorphism is the way of providing the different functionality by the functions having the same name based on the signatures of the  methods.

4. Dynamic binding: Sometimes we don't have the knowledge of objects about their specific types while writing our code. It is the way of providing the maximum functionality to a program about the specific type at runtime.

**5.2.3 JAVA SWING OVERVIEW**

**Abstract Window Toolkit (AWT) is cross-platform**

Swing[[1]](http://en.wikibooks.org/wiki/Java_Programming/Swing#cite_note-0) provides many controls and widgets to build user interfaces with. Swing class names typically begin with a J such as JButton, JList, JFrame. This is mainly to differentiate them from their AWT counterparts and in general is one-to-one replacements. Swing is built on the concept of Lightweight components vs AWT and SWT's concept of Heavyweight components. The difference between the two is that the Lightweight components are rendered (drawn) using purely Java code, such as drawLine and drawImage, whereas Heavyweight components use the native operating system to render the components.

Some components in Swing are actually heavyweight components. The top-level classes and any derived from them are heavy weight as they extend the AWT versions. This is needed because at the root of the UI, the parent windows need to be provided by the OS. These top-level classes include JWindow, JFrame,  JDialog  and  JApplet. All Swing components to be rendered to the screen must be able to trace their way to a root window of one of those classes.

**Note**: It generally it is not a good idea to mix heavyweight components with lightweight components (other than as previously mentioned) as you will encounter layering issues, e.g., a lightweight component that should appear "on top" ends up being obscured by a heavyweight component. The few exceptions to this include using heavyweight components as the root pane and for popup windows. Generally speaking, heavyweight components will render on top of lightweight components and will not be consistent with the look and feel being used in Swing. There are exceptions, but that is an advanced topic. The truly adventurous may want to consider reading this [article](http://java.sun.com/products/jfc/tsc/articles/mixing/) from Sun on mixing heavyweight and lightweight components.

**5.2.4 Evolution of Collection Framework:**

Almost all collections in Java are derived from the **[java.util.Collection](http://download.oracle.com/javase/7/docs/api/java/util/Collection.html)** interface. Collection defines the basic parts of all collections. The interface states the add() and remove() methods for adding to and removing from a collection respectively. Also required is the toArray() method, which converts the collection into a simple array of all the elements in the collection. Finally, the contains() method checks if a specified element is in the collection. The Collection interface is a sub interface of **[java.util.Iterable](http://download.oracle.com/javase/7/docs/api/java/util/Iterable.html)**, so the iterator() method is also provided. All collections have an iterator that goes through all of the elements in the collection. Additionally, Collection is a generic. Any collection can be written to store any class. For example, Collection<String> can hold strings, and the elements from the collection can be used as strings without any casting required.

There are three main types of collections:

* Lists: always ordered, may contain duplicates and can be handled the same way as usual arrays
* Sets: cannot contain duplicates and provide random access to their elements
* Maps: connect unique keys with values, provide random access to its keys and may host duplicate values

**LIST**

Lists are implemented in the JCF via the java.util.List interface. It defines a list as essentially a more flexible version of an array. Elements have a specific order, and duplicate elements are allowed. Elements can be placed in a specific position. They can also be searched for within the list. Two concrete classes implement List. The first is java.util.ArrayList, which implements the list as an array. Whenever functions specific to a list are required, the class moves the elements around within the array in order to do it. The other implementation is java.util.LinkedList. This class stores the elements in nodes that each have a pointer to the previous and next nodes in the list. The list can be traversed by following the pointers, and elements can be added or removed simply by changing the pointers around to place the node in its proper place.

SET:

Java's [java.util.Set](http://download.oracle.com/javase/7/docs/api/java/util/Set.html) interface defines the set. A set can't have any duplicate elements in it. Additionally, the set has no set order. As such, elements can't be found by index. Set is implemented by java.util.HashSet,java.util.LinkedHashSet, and java.util.TreeSet. HashSet uses a hash table. More specifically, it uses a [java.util.HashMap](http://download.oracle.com/javase/7/docs/api/java/util/HashMap.html) to store the hashes and elements and to prevent duplicates. Java.util.LinkedHashSet extends this by creating a doubly linked list that links all of the elements by their insertion order. This ensures that the iteration order over the set is predictable. [java.util.TreeSet](http://download.oracle.com/javase/7/docs/api/java/util/TreeSet.html) uses a red-black tree implemented by a [java.util.TreeMap](http://download.oracle.com/javase/7/docs/api/java/util/TreeMap.html). The red-black tree makes sure that there are no duplicates. Additionally, it allows Tree Set to implement java.util.SortedSet.

The [java.util.Set](http://download.oracle.com/javase/7/docs/api/java/util/Set.html) interface is extended by the java.util.SortedSet interface. Unlike a regular set, the elements in a sorted set are sorted, either by the element's compareTo() method, or a method provided to the constructor of the sorted set. The first and last elements of the sorted set can be retrieved, and subsets can be created via minimum and maximum values, as well as beginning or ending at the beginning or ending of the sorted set. The SortedSet interface is implemented by java.util.TreeSet

[java.util.SortedSet](http://download.oracle.com/javase/7/docs/api/java/util/SortedSet.html) is extended further via the java.util.NavigableSet interface. It's similar to SortedSet, but there are a few additional methods. The floor(), ceiling(), lower(), and higher() methods find an element in the set that's close to the parameter. Additionally, a descending iterator over the items in the set is provided. As with SortedSet, java.util.TreeSet implements NavigableSet.

**MAP:**

Maps are defined by the java.util.Map interface in Java. Maps are simple data structures that associate a key with a value. The element is the value. This lets the map be very flexible. If the key is the hash code of the element, the map is essentially a set. If it's just an increasing number, it becomes a list. Maps are implemented by java.util.HashMap, java.util.LinkedHashMap, and java.util.TreeMap. HashMap uses a hash table. The hashes of the keys are used to find the values in various buckets. LinkedHashMap extends this by creating a doubly linked list between the elements. This allows the elements to be accessed in the order in which they were inserted into the map. TreeMap, in contrast to HashMap and LinkedHashMap, uses a red-black tree. The keys are used as the values for the nodes in the tree, and the nodes point to the values in the map

**Thread:**

Simply put, a threadis a program's path of execution. Most programs written today run as a single thread, causing problems when multiple events or actions need to occur at the same time. Let's say, for example, a program is not capable of drawing pictures while reading keystrokes. The program must give its full attention to the keyboard input lacking the ability to handle more than one event at a time. The ideal solution to this problem is the seamless execution of two or more sections of a program at the same time.

## Creating threads

Java's creators have graciously designed two ways of creating threads: implementing an interface and extending a class. Extending a class is the way Java inherits methods and variables from a parent class. In this case, one can only extend or inherit from a single parent class. This limitation within Java can be overcome by implementing interfaces, which is the most common way to create threads. (Note that the act of inheriting merely allows the class to be run as a thread. It is up to the class to start() execution, etc.)

Interfaces provide a way for programmers to lay the groundwork of a class. They are used to design the requirements for a set of classes to implement. The interface sets everything up, and the class or classes that implement the interface do all the work. The different set of classes that implement the interface have to follow the same rules.

**CHAPTER 6**

**IMPLEMENTATION**

**6.1 GENERAL**

**Coding:**

**Index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<meta name="description" content="">

<meta name="author" content="">

<title>A Resume Evaluation System Based on Text Mining </title>

<!-- Bootstrap core CSS -->

<link href="vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">

<!-- Custom fonts for this template -->

<link href="vendor/fontawesome-free/css/all.min.css" rel="stylesheet" type="text/css">

<link href="https://fonts.googleapis.com/css?family=Montserrat:400,700" rel="stylesheet" type="text/css">

<link href="https://fonts.googleapis.com/css?family=Lato:400,700,400italic,700italic" rel="stylesheet" type="text/css">

<!-- Plugin CSS -->

<link href="vendor/magnific-popup/magnific-popup.css" rel="stylesheet" type="text/css">

<!-- Custom styles for this template -->

<link href="css/freelancer.min.css" rel="stylesheet">

</head>

<body id="page-top">

<!-- Navigation -->

<nav class="navbar navbar-expand-lg bg-secondary fixed-top text-uppercase" id="mainNav">

<div class="container">

<!-- <a class="navbar-brand js-scroll-trigger" href="#page-top">A Resume Evaluation System Based on Text Mining </a> -->

<button class="navbar-toggler navbar-toggler-right text-uppercase bg-primary text-white rounded" type="button" data-toggle="collapse" data-target="#navbarResponsive" aria-controls="navbarResponsive" aria-expanded="false" aria-label="Toggle navigation">

Menu

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

</button>

<div class="collapse navbar-collapse" id="navbarResponsive">

<ul class="navbar-nav ml-auto">

<li class="nav-item mx-0 mx-lg-1">

<a class="nav-link py-3 px-0 px-lg-3 rounded js-scroll-trigger" href="#">Home</a>

</li>

<li class="nav-item mx-0 mx-lg-1">

<a class="nav-link py-3 px-0 px-lg-3 rounded js-scroll-trigger" href="JS\_login.jsp">Job Seekers</a>

</li>

<li class="nav-item mx-0 mx-lg-1">

<a class="nav-link py-3 px-0 px-lg-3 rounded js-scroll-trigger" href="HR\_reg.jsp">HR</a>

</li>

<li class="nav-item mx-0 mx-lg-1">

<a class="nav-link py-3 px-0 px-lg-3 rounded js-scroll-trigger" href="Robot\_login.jsp">Robot</a>

</li>

<li class="nav-item mx-0 mx-lg-1">

<a class="nav-link py-3 px-0 px-lg-3 rounded js-scroll-trigger" href="Admin\_login.jsp">Admin</a>

</li>

</ul>

</div>

</div>

</nav>

<!-- Header -->

<header class="masthead bg-primary text-white text-center">

<div class="container">

<img class="img-fluid mb-5 d-block mx-auto" src="img/res2.jpg" alt="">

<h2 class="text-uppercase mb-0">A Resume Evaluation System Based on Text Mining</h2>

<hr class="star-light">

</div>

</header>

<!-- Portfolio Grid Section -->

<!-- Bootstrap core JavaScript -->

<script src="vendor/jquery/jquery.min.js"></script>

<script src="vendor/bootstrap/js/bootstrap.bundle.min.js"></script>

<!-- Plugin JavaScript -->

<script src="vendor/jquery-easing/jquery.easing.min.js"></script>

<script src="vendor/magnific-popup/jquery.magnific-popup.min.js"></script>

<!-- Contact Form JavaScript -->

<script src="js/jqBootstrapValidation.js"></script>

<script src="js/contact\_me.js"></script>

<!-- Custom scripts for this template -->

<script src="js/freelancer.min.js"></script>

</body>

</html>

**Js\_profile.jsp**

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<meta name="description" content="">

<meta name="author" content="">

<title>Give Details</title>

<!-- Custom fonts for this template-->

<link href="vendor/fontawesome-free/css/all.min.css" rel="stylesheet" type="text/css">

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

<!-- Custom styles for this template-->

<link href="css/sb-admin-2.min.css" rel="stylesheet">

</head>

<body class="bg-gradient-primary">

<div id="hd">

<center><h1 style="color:white;width:100%;height:80px;padding:20px;font-size:50px;"><b> A Resume Evaluation System Based on Text Mining </b></h1></center>

</div>

<div class="container">

<div class="card o-hidden border-0 shadow-lg my-5">

<div class="card-body p-0">

<!-- Nested Row within Card Body -->

<div class="row">

<div class="col-lg-5 d-none d-lg-block bg-register-image"></div>

<div class="col-lg-7">

<div class="p-5">

<div class="text-center">

<h1 class="h4 text-gray-900 mb-4">Details</h1>

</div>

<form class="user" action="JS" method="POST" enctype="multipart/form-data">

<center>Here \* indicates required fields:</center><br>

<b><b>Personal Details:</b></b>

<div class="form-group">

<input type="text" name="username" class="form-control form-control-user" id="exampleInputName" placeholder="Enter your full Name \*" required>

</div>

<div class="form-group">

<input type="text" maxlength="10" name="usermobile" class="form-control form-control-user" id="exampleInputNumber" placeholder="Mobile Number \*" required>

</div>

<div class="form-group">

<input type="email" name="usermail" class="form-control form-control-user" id="exampleInputMail" placeholder="valid Email-Id \*" required>

</div>

<div class="form-group">

<input type="text" name="useraddress" class="form-control form-control-user" id="exampleInputAddress" placeholder="Address \*" required>

</div>

<b><b> Educational Details:</b></b>

SSC Details:

<div class="form-group">

<input type="text" name="school\_name" class="form-control form-control-user" id="exampleInputAddress" placeholder="School name \*" required>

</div>

<div class="form-group">

<input type="text" name="CGPA\_10" class="form-control form-control-user" id="exampleInputAddress" placeholder="10-CGPA \*" required>

</div>

12 Details:

<div class="form-group">

<input type="text" name="acadamy" class="form-control form-control-user" id="exampleInputAddress" placeholder="acadamy \*" required>

</div>

<div class="form-group">

<input type="text" name="CGPA\_12" class="form-control form-control-user" id="exampleInputAddress" placeholder="12-CGPA \*" required>

</div>

<div class="form-group">

<input type="text" name="branch" class="form-control form-control-user" id="exampleInputAddress" placeholder="specialization \*" required>

</div>

Graduation Details:

<div class="form-group">

<input type="text" name="college\_name" class="form-control form-control-user" id="exampleInputAddress" placeholder="Name of the college \*" required>

</div>

<div class="form-group">

<input type="text" name="CGPA\_graduation" class="form-control form-control-user" id="exampleInputAddress" placeholder="graduation-CGPA \*" required>

</div>

<div class="form-group">

<input type="text" name="graduation\_branch" class="form-control form-control-user" id="exampleInputAddress" placeholder="specialization \*" required>

</div>

<div class="form-group">

<input type="text" name="year" class="form-control form-control-user" id="exampleInputAddress" placeholder="year \*" required>

</div>

<div class="form-group">

<input type="text" name="skills" class="form-control form-control-user" id="exampleInputAddress" placeholder="enter your skills \*" required>

</div>

<b><b>Experience Details:</b></b>

<div class="form-group">

<input type="text" name="previous\_company" class="form-control form-control-user" id="exampleInputAddress" placeholder="Name of previous company">

</div>

<div class="form-group">

<input type="text" name="previous\_package" class="form-control form-control-user" id="exampleInputAddress" placeholder="package in lpa">

</div>

<div class="form-group">

<input type="text" name="expecting\_package" class="form-control form-control-user" id="exampleInputAddress" placeholder="Expecting package in lpa">

</div>

<div class="form-group">

<b><b>upload resume here</b></b><br>

Select a file \* : <input type="file" name="myFile" required><br><br>

</div>

<!-- <div id=res class="w3-modal w3-center w3-animate-zoom" style="display:inline-block;">

<div class="w3-modal-content">

<div class="w3-container w3-teal">

<span onclick="document.getElementById('res').style.display='none'"

class="w3-button w3-display-topright">&times;</span>

<h1>Upload Resume</h1>

</div>

<div>

<form action="FileUpload" enctype="multipart/form-data" method="post">

<br><br><br>

<input class="w3-btn w3-teal" type=file name=file1 required><br><br><br>

<input class="w3-btn w3-teal" id=for type=submit value=submit><br><br><br>

</form>

</div>

</div>

</div>

-->

<button type="submit" class="btn btn-primary btn-user btn-block" value="submit">

Submit Details</button>

<hr>

</form>

<hr>

<!-- <div class="text-center">

<a class="small" href="JS\_login.jsp">Already have an account? Login!</a>

</div> -->

</div>

</div>

</div>

</div>

</div>

</div>

<!-- Bootstrap core JavaScript-->

<script src="vendor/jquery/jquery.min.js"></script>

<script src="vendor/bootstrap/js/bootstrap.bundle.min.js"></script>

<!-- Core plugin JavaScript-->

<script src="vendor/jquery-easing/jquery.easing.min.js"></script>

<!-- Custom scripts for all pages-->

<script src="js/sb-admin-2.min.js"></script>

</body>

</html>

**Apply.jsp**

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<%@page import="database.connection"%>

<%@page import="java.sql.\*"%>

<%@page import="java.sql.Statement"%>

<%@page import="java.sql.SQLException" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<%

ResultSet rs=null;

String username=(String)session.getAttribute("username");

String mail=request.getParameter("mail");

Connection con=connection.getConnection();

try {

Statement st=con.createStatement();

String query="select \* from js\_profile where name='"+username+"';";

System.out.println("=====>"+query);

rs=st.executeQuery(query);

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

%>

</body>

</html>

**Hr\_login.jsp**

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<meta name="description" content="">

<meta name="author" content="">

<title>HR-Login</title>

<link href="vendor/fontawesome-free/css/all.min.css" rel="stylesheet" type="text/css">

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

<link href="css/sb-admin-2.min.css" rel="stylesheet">

</head>

<body class="bg-gradient-primary" style="background-color:powderblue;">

<center><h1 style="color:white;width:100%;height:80px;padding:20px;font-size:50px;;"><b>A Resume Evaluation System Based on Text Mining</h1></center>

<div class="container">

<!-- Outer Row -->

<div class="row justify-content-center">

<div class="col-xl-10 col-lg-12 col-md-9">

<div class="card o-hidden border-0 shadow-lg my-5">

<div class="card-body p-0">

<!-- Nested Row within Card Body -->

<div class="row">

<div class="col-lg-6 d-none d-lg-block bg-user-login"></div>

<div class="col-lg-6">

<div class="p-5">

<div class="text-center">

<h1 class="h4 text-gray-900 mb-4">HR login</h1>

</div>

<form class="user" action="HR\_logDb.jsp" method="POST">

<div class="form-group">

<input type="text" name="Hr\_name" class="form-control form-control-user" id="exampleInputName" aria-describedby="Name" placeholder="Enter your Name" required>

</div>

<div class="form-group">

<input type="password" name="hr\_conpass" class="form-control form-control-user" id="exampleInputPassword" placeholder="Password" required>

</div>

<div class="form-group">

<div class="custom-control custom-checkbox small">

<input type="checkbox" class="custom-control-input" id="customCheck">

<label class="custom-control-label" for="customCheck">Remember Me</label>

</div>

</div>

<button type="submit" class="btn btn-primary btn-user btn-block">

Login

</button>

</form>

<hr>

<!-- <div class="text-center">

<a class="small" href="JS\_reg.jsp">Create an Account!</a>

</div>hghhgt; -->

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

<!-- Bootstrap core JavaScript-->

<script src="vendor/jquery/jquery.min.js"></script>

<script src="vendor/bootstrap/js/bootstrap.bundle.min.js"></script>

<!-- Core plugin JavaScript-->

<script src="vendor/jquery-easing/jquery.easing.min.js"></script>

<!-- Custom scripts for all pages-->

<script src="js/sb-admin-2.min.js"></script>

</body>

</html>

**Hr\_home.jsp**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<meta name="description" content="">

<meta name="author" content="">

<title>HR panel</title>

<!-- Custom fonts for this template-->

<link href="vendor/fontawesome-free/css/all.min.css" rel="stylesheet" type="text/css">

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

<!-- Custom styles for this template-->

<link href="css/sb-admin-2.min.css" rel="stylesheet">

</head>

<body id="page-top">

<!-- Page Wrapper -->

<div id="wrapper">

<!-- Sidebar -->

<ul class="navbar-nav bg-gradient-primary sidebar sidebar-dark accordion" id="accordionSidebar">

<!-- Sidebar - Brand -->

<a class="sidebar-brand d-flex align-items-center justify-content-center" href="Index.html">

<div class="sidebar-brand-icon rotate-n-15">

<i class="fas fa-laugh-wink"></i>

</div>

<div class="sidebar-brand-text mx-3">HR</div>

</a>

<!-- Divider -->

<hr class="sidebar-divider my-0">

<!-- Nav Item - Dashboard -->

<li class="nav-item active">

<a class="nav-link" href="admin\_panel.jsp">

<i class="fas fa-fw fa-tachometer-alt"></i>

<span>HR</span></a>

</li>

<!-- Divider -->

<hr class="sidebar-divider">

<!-- Heading -->

<div class="sidebar-heading">

Details

</div>

<!--

Nav Item - Pages Collapse Menu

<li class="nav-item">

<a class="nav-link collapsed" href="#" data-toggle="collapse" data-target="#collapseTwo" aria-expanded="true" aria-controls="collapseTwo">

<i class="fas fa-fw fa-cog"></i>

<span>Components</span>

</a>

<div id="collapseTwo" class="collapse" aria-labelledby="headingTwo" data-parent="#accordionSidebar">

<div class="bg-white py-2 collapse-inner rounded">

<h6 class="collapse-header">Custom Components:</h6>

<a class="collapse-item" href="buttons.html">Buttons</a>

<a class="collapse-item" href="cards.html">Cards</a>

</div>

</div>

</li>

Nav Item - Utilities Collapse Menu

<li class="nav-item">

<a class="nav-link collapsed" href="#" data-toggle="collapse" data-target="#collapseUtilities" aria-expanded="true" aria-controls="collapseUtilities">

<i class="fas fa-fw fa-wrench"></i>

<span>Utilities</span>

</a>

<div id="collapseUtilities" class="collapse" aria-labelledby="headingUtilities" data-parent="#accordionSidebar">

<div class="bg-white py-2 collapse-inner rounded">

<h6 class="collapse-header">Custom Utilities:</h6>

<a class="collapse-item" href="utilities-color.html">Colors</a>

<a class="collapse-item" href="utilities-border.html">Borders</a>

<a class="collapse-item" href="utilities-animation.html">Animations</a>

<a class="collapse-item" href="utilities-other.html">Other</a>

</div>

</div>

</li>

-->

<li class="nav-item">

<a class="nav-link" href="JS\_viewpro.jsp">

<i class="fas fa-fw fa-table"></i>

<span>Add Notifications</span></a>

</li>

<li class="nav-item">

<a class="nav-link" href="SendNoti.jsp">

<i class="fas fa-fw fa-table"></i>

<span>Requirements</span></a>

</li>

<li class="nav-item">

<a class="nav-link" href="AppliedPro.jsp">

<i class="fas fa-fw fa-table"></i>

<span>Applied Seekers</span></a>

</li>

<li class="nav-item">

<a class="nav-link" href="profile\_from\_admin.jsp">

<i class="fas fa-fw fa-table"></i>

<span>Response from Admin</span></a>

</li>

<li class="nav-item">

<a class="nav-link" href="admin\_user\_req\_status.jsp">

<i class="fas fa-fw fa-table"></i>

<span>Give Response to Seekers</span></a>

</li>

<!-- Divider -->

<hr class="sidebar-divider">

<!-- Sidebar Toggler (Sidebar) -->

<div class="text-center d-none d-md-inline">

<button class="rounded-circle border-0" id="sidebarToggle"></button>

</div>

</ul>

<!-- End of Sidebar -->

<!-- Content Wrapper -->

<div id="content-wrapper" class="d-flex flex-column">

<!-- Main Content -->

<div id="content">

<!-- Topbar -->

<nav class="navbar navbar-expand navbar-light bg-white topbar mb-4 static-top shadow">

<!-- Sidebar Toggle (Topbar) -->

<button id="sidebarToggleTop" class="btn btn-link d-md-none rounded-circle mr-3">

<i class="fa fa-bars"></i>

</button>

<!-- Topbar Navbar -->

<ul class="navbar-nav ml-auto">

<!-- Nav Item - User Information -->

<li class="nav-item dropdown no-arrow">

<a class="nav-link dropdown-toggle" href="#" id="userDropdown" role="button" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

<span class="mr-2 d-none d-lg-inline text-gray-600 small">HR</span>

<img class="img-profile rounded-circle" src="img/admin.png">

</a>

<!-- Dropdown - User Information -->

<div class="dropdown-menu dropdown-menu-right shadow animated--grow-in" aria-labelledby="userDropdown">

<div class="dropdown-divider"></div>

<a class="dropdown-item" href="Index.html" data-toggle="modal" data-target="#logoutModal">

<i class="fas fa-sign-out-alt fa-sm fa-fw mr-2 text-gray-400"></i>

Logout

</a>

</div>

</li>

</ul>

</nav>

<!-- End of Topbar -->

<!-- Begin Page Content -->

<div class="container-fluid">

<!-- Page Heading -->

<div class="d-sm-flex align-items-center justify-content-between mb-4">

<marquee> <h1 class="h3 mb-0 text-gray-800"> A Resume Evaluation System Based on Text Mining</h1></marquee>

</div>

<!-- Content Row -->

<div class="row">

<!-- Earnings (Monthly) Card Example -->

<div class="col-xl-3 col-md-6 mb-4">

<div class="card border-left-primary shadow h-100 py-2">

<div class="card-body">

<div class="row no-gutters align-items-center">

<div class="col mr-2">

<div>

<a class="text-xs font-weight-bold text-primary text-uppercase mb-1" style="font-size:20px;" href="JS\_viewpro.jsp">Job seekers Details</a></div>

<div class="h5 mb-0 font-weight-bold text-gray-800"></div>

</div>

<div class="col-auto">

<i class="fas fa-clipboard-list fa-2x text-gray-300"></i>

<!-- <i class="fas fa-calendar fa-2x text-gray-300"></i> -->

</div>

</div>

</div>

</div>

</div>

<!-- Earnings (Monthly) Card Example -->

<div class="col-xl-3 col-md-6 mb-4">

<div class="card border-left-success shadow h-100 py-2">

<div class="card-body">

<div class="row no-gutters align-items-center">

<div class="col mr-2">

<div>

<a href="AppliedPro.jsp" class="text-xs font-weight-bold text-success text-uppercase mb-1" style="font-size:20px;" >Applied Seekers</a></div>

<div class="h5 mb-0 font-weight-bold text-gray-800"></div>

</div>

<div class="col-auto">

<i class="fas fa-calendar fa-2x text-gray-300"></i>

</div>

</div>

</div>

</div>

</div>

<!-- Earnings (Monthly) Card Example -->

<div class="col-xl-3 col-md-6 mb-4">

<div class="card border-left-info shadow h-100 py-2">

<div class="card-body">

<div class="row no-gutters align-items-center">

<div class="col mr-2">

<div>

<a style="font-size:20px;" class="text-xs font-weight-bold text-info text-uppercase mb-1" href=SendNoti.jsp >Requeirements</a></div>

<div class="row no-gutters align-items-center">

<div class="col-auto">

<div class="h5 mb-0 mr-3 font-weight-bold text-gray-800"></div>

</div>

</div>

</div>

<div class="col-auto">

<i class="fas fa-clipboard-list fa-2x text-gray-300"></i>

</div>

</div>

</div>

</div>

</div>

<!-- Pending Requests Card Example -->

<div class="col-xl-3 col-md-6 mb-4">

<div class="card border-left-warning shadow h-100 py-2">

<div class="card-body">

<div class="row no-gutters align-items-center">

<div class="col mr-2">

<div>

<a style="font-size:20px;" class="text-xs font-weight-bold text-warning text-uppercase mb-1" href="profile\_from\_admin.jsp">Response from Admin</a></div>

<div class="h5 mb-0 font-weight-bold text-gray-800"></div>

</div>

<div class="col-auto">

<i class="fas fa-clipboard fa-2x text-gray-300"></i>

</div>

</div>

</div>

</div>

</div>

</div>

<!-- Earnings (Monthly) Card Example -->

<div class="col-xl-3 col-md-6 mb-4">

<div class="card border-left-info shadow h-100 py-2">

<div class="card-body">

<div class="row no-gutters align-items-center">

<div class="col mr-2">

<div>

<a style="font-size:20px;" class="text-xs font-weight-bold text-info text-uppercase mb-1" href="admin\_user\_details.jsp" >Give Response to Seekers</a></div>

<div class="row no-gutters align-items-center">

<div class="col-auto">

<div class="h5 mb-0 mr-3 font-weight-bold text-gray-800"></div>

</div>

</div>

</div>

<div class="col-auto">

<i class="fas fa-clipboard-list fa-2x text-gray-300"></i>

</div>

</div>

</div>

</div>

</div>

<img src="img/back1.jpg">

<!-- Content Row -->

<!-- Bootstrap core JavaScript-->

<script src="vendor/jquery/jquery.min.js"></script>

<script src="vendor/bootstrap/js/bootstrap.bundle.min.js"></script>

<!-- Core plugin JavaScript-->

<script src="vendor/jquery-easing/jquery.easing.min.js"></script>

<!-- Custom scripts for all pages-->

<script src="js/sb-admin-2.min.js"></script>

<!-- Page level plugins -->

<script src="vendor/chart.js/Chart.min.js"></script>

<!-- Page level custom scripts -->

<script src="js/demo/chart-area-demo.js"></script>

<script src="js/demo/chart-pie-demo.js"></script>

</body>

</html>

**HR\_response.jsp**

<%@page import="java.sql.ResultSet"%>

<%@page import="java.sql.PreparedStatement"%>

<%@page import="database.connection"%>

<%@page import="java.sql.Connection,java.util.List,java.util.ArrayList"%>

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!DOCTYPE HTML>

<!--

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-->

<html>

<head>

<title>From\_robot</title>

<meta charset="utf-8" />

<meta name="viewport" content="width=device-width, initial-scale=1, user-scalable=no" />

<meta name="description" content="" />

<meta name="keywords" content="" />

<link rel="stylesheet" href="css/main.css" />

</head>

<body class="is-preload">

<!-- Header -->

<header id="header">

<a class="logo" href="adminhome.jsp">A Resume Evaluation System Based on Text Mining</a>

<!-- <nav>

<a href="#menu">Menu</a>

</nav> -->

</header>

<!-- Nav -->

<!-- <nav id="menu">

<ul class="links">

<li><a href="adminhome.jsp">Home</a></li>

<li><a href="acceptusers.jsp">Accept Users</a></li>

<li><a href="allusers.jsp">Active Users</a></li>

<li><a href="addcsp.jsp">Add CSP</a></li>

<li><a href="allcsp.jsp">View CSP</a></li>

<li><a href="ActivityGraph.jsp">User Activity Graph</a></li>

<li><a href="RatingGraph.jsp">User Rating Graph</a></li>

<li><a href="RecommendedGraph.jsp">User Recommendation Graph</a></li>

<li><a href="index.html">Logout</a></li>

</ul>

</nav> -->

<!-- Heading -->

<div id="heading" >

<h1>All Notifications</h1>

</div>

<!-- Main -->

<section id="main" class="wrapper">

<div class="inner">

<div class="content">

<div class="table-wrapper">

<table>

<thead>

<tr>

<th>Name</th>

<th>Mobile</th>

<th>mail</th>

<th>Response from HR</th>

</tr>

</thead>

<tbody>

<%

Connection conn=connection.getConnection();

String sql="SELECT \* from send\_data2";

PreparedStatement ps=conn.prepareStatement(sql);

ResultSet rs=ps.executeQuery();

while(rs.next())

{

%>

<tr><td><%=rs.getString("name") %></td>

<td><%=rs.getString("mobile") %></td>

<td><%=rs.getString("mail") %></td>

<td><a href="#?mail=<%= rs.getString(3) %>&&name=<%= rs.getString(1) %>&&mobile=<%= rs.getString(2)%>">Your Profile got a selected</a></td>

</tr>

<%

}

%>

</tbody>

</table>

</div>

</div>

</div>

</section>

<!-- Scripts -->

<script src="js/jquery.min.js"></script>

<script src="js/browser.min.js"></script>

<script src="js/breakpoints.min.js"></script>

<script src="js/util.js"></script>

<script src="js/main.js"></script>

</body>

</html>

**JS\_viewpro**

<%@page import="java.sql.ResultSet"%>

<%@page import="java.sql.PreparedStatement"%>

<%@page import="database.connection"%>

<%@page import="java.sql.Connection,java.util.List,java.util.ArrayList"%>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<meta name="description" content="">

<meta name="author" content="">

<title>user Details - Tables</title>

<!-- Custom fonts for this template -->

<link href="vendor/fontawesome-free/css/all.min.css" rel="stylesheet" type="text/css">

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

<!-- Custom styles for this template -->

<link href="css/sb-admin-2.min.css" rel="stylesheet">

<!-- Custom styles for this page -->

<link href="vendor/datatables/dataTables.bootstrap4.min.css" rel="stylesheet">

</head>

<body id="page-top">

<% /\*

String owner\_id=(String)application.getAttribute("owner\_\_key");

System.out.println("owner\_id="+owner\_id); \*/

%>

<%-- <%

try

{

Connection conn=connection.getConnection();

String sql="select \* from requests where owner\_id=?";

PreparedStatement ps=conn.prepareStatement(sql);

ps.setString(1, owner\_id);

ResultSet rs=ps.executeQuery();

System.out.println("user\_id");

if(rs.next()!=false){

while(rs.next())

{

List<String> myData = new ArrayList<String>();

myData.add(rs.getString("user\_id"));

for (String value : myData)

{

System.out.println("Value of element "+value);

}

String user\_id=rs.getString("user\_id");

System.out.println("user\_id="+user\_id);

}}

else

{

%>

<script type="text/javascript">

alert("name or pass is incorrect...");

window.location="owner\_table.jsp";

</script>

<%

}

}

catch(Exception e)

{

e.printStackTrace();

}

%> --%>

<!-- Page Wrapper -->

<div id="wrapper">

<!-- Content Wrapper -->

<div id="content-wrapper" class="d-flex flex-column">

<!-- Main Content -->

<div id="content">

<!-- Topbar -->

<nav class="navbar navbar-expand navbar-light bg-white topbar mb-4 static-top shadow">

<!-- Topbar Navbar -->

<ul class="navbar-nav ml-auto">

<!-- Nav Item - User Information -->

<li class="nav-item dropdown no-arrow">

<a class="nav-link dropdown-toggle" href="#" id="userDropdown" role="button" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

<span class="mr-2 d-none d-lg-inline text-gray-600 small">HR</span>

<img class="img-profile rounded-circle" src="img/admin.png">

</a>

<!-- Dropdown - User Information -->

<div class="dropdown-menu dropdown-menu-right shadow animated--grow-in" aria-labelledby="userDropdown">

<div class="dropdown-divider"></div>

<a class="dropdown-item" href="Index.html" data-toggle="modal" data-target="#logoutModal">

<i class="fas fa-sign-out-alt fa-sm fa-fw mr-2 text-gray-400"></i>

Logout

</a>

</div>

</li>

</ul>

</nav>

<!-- End of Topbar -->

<!-- Begin Page Content -->

<div class="container-fluid">

<!-- Page Heading -->

<h1 class="h3 mb-2 text-gray-800" style="color:black;">A Resume Evaluation System Based on Text Mining</h1>

<!-- DataTales Example -->

<div class="card shadow mb-4">

<div class="card-header py-3">

<h6 class="m-0 font-weight-bold text-primary">Candidates profile</h6>

</div>

<div class="card-body">

<div class="table-responsive">

<table class="table table-bordered" id="dataTable" width="100%" cellspacing="0" style="background-color:grey;color:black">

<thead>

<tr>

<th>Candidate Name</th>

<th>Mobile</th>

<th>Mail id</th>

<th>address</th>

<th>School name</th>

<th>CGPA\_10</th>

<th>12\_College name</th>

<th>CGPA\_12</th>

<th>Branch</th>

<th>College name</th>

<th>CGPA\_Graduation</th>

<th>Graduation branch</th>

<th>Year of passed out</th>

<th>Skills</th>

<th>Previous company</th>

<th>Pre\_package</th>

<th>Expecting package</th>

<!-- <th>resume</th> -->

</tr>

</thead>

<tbody>

<%

Connection conn=connection.getConnection();

String sql="SELECT \* from js\_profile";

PreparedStatement ps=conn.prepareStatement(sql);

ResultSet rs=ps.executeQuery();

while(rs.next())

{

%>

<tr><td><%=rs.getString(1) %></td>

<td><%=rs.getString(2) %></td>

<td><%=rs.getString(3) %></td>

<td><%=rs.getString(4) %></td>

<td><%=rs.getString(5) %></td>

<td><%=rs.getString(6) %></td>

<td><%=rs.getString(7) %></td>

<td><%=rs.getString(8) %></td>

<td><%=rs.getString(9) %></td>

<td><%=rs.getString(10) %></td>

<td><%=rs.getString(11) %></td>

<td><%=rs.getString(12) %></td>

<td><%=rs.getString(13) %></td>

<td><%=rs.getString(14) %></td>

<td><%=rs.getString(15) %></td>

<td><%=rs.getString(16) %></td>

<td><%=rs.getString(17) %></td>

<%-- <td><%=rs.getString(18) %></td> --%>

<%-- <td><a href="AcceptHr\_db.jsp?email=<%= rs.getString(3) %>">Accept</a></td>

--%>

</tr>

<%

}

%>

</tbody>

</table>

</div>

<!-- End of Content Wrapper -->

</div>

<!-- End of Page Wrapper -->

<!-- Scroll to Top Button-->

<a class="scroll-to-top rounded" href="#page-top">

<i class="fas fa-angle-up"></i>

</a>

<!-- Logout Modal-->

<div class="modal fade" id="logoutModal" tabindex="-1" role="dialog" aria-labelledby="exampleModalLabel" aria-hidden="true">

<div class="modal-dialog" role="document">

<div class="modal-content">

<div class="modal-header">

<h5 class="modal-title" id="exampleModalLabel">Ready to Leave?</h5>

<button class="close" type="button" data-dismiss="modal" aria-label="Close">

<span aria-hidden="true">×</span>

</button>

</div>

<div class="modal-body">Select "Logout" below if you are ready to end your current session.</div>

<div class="modal-footer">

<button class="btn btn-secondary" type="button" data-dismiss="modal">Cancel</button>

<a class="btn btn-primary" href="Index.html">Logout</a>

</div>

</div>

</div>

</div>

<!-- Bootstrap core JavaScript-->

<script src="vendor/jquery/jquery.min.js"></script>

<script src="vendor/bootstrap/js/bootstrap.bundle.min.js"></script>

<!-- Core plugin JavaScript-->

<script src="vendor/jquery-easing/jquery.easing.min.js"></script>

<!-- Custom scripts for all pages-->

<script src="js/sb-admin-2.min.js"></script>

<!-- Page level plugins -->

<script src="vendor/datatables/jquery.dataTables.min.js"></script>

<script src="vendor/datatables/dataTables.bootstrap4.min.js"></script>

<!-- Page level custom scripts -->

<script src="js/demo/datatables-demo.js"></script>

</body>

</html>

Robot\_home1.jsp

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>Short list</title>

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

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<link rel="StyleSheet" href="css/w3.css">

<script type="text/javascript">

function btn1()

{

document.getElementById("search").style.display = "block";

document.getElementById("loc\_search").style.display = "none";

document.getElementById("ind\_search").style.display = "none";

}

function btn2()

{

document.getElementById("search").style.display = "none";

document.getElementById("loc\_search").style.display = "none";

document.getElementById("ind\_search").style.display = "block";

}

function btn3()

{

document.getElementById("search").style.display = "none";

document.getElementById("loc\_search").style.display = "block";

document.getElementById("ind\_search").style.display = "none";

}

function clear()

{

document.getElementById("search").style.display = "none";

document.getElementById("loc\_search").style.display = "none";

document.getElementById("ind\_search").style.display = "none";

}

</script>

</head>

<body onload="clear()" class="w3-animate-zoom">

<%@ page import="java.io.\*" import="java.sql.\*" import="org.apache.poi.xwpf.extractor.XWPFWordExtractor" import="org.apache.poi.xwpf.usermodel.\*" import="java.util.ArrayList" %>

<%

final int BUFFER\_SIZE = 4096;

String url = "jdbc:mysql://localhost:3306/vtjdm01\_2019";

String user = "root";

ArrayList<String> list;

String password = "root";

String filePath = "temp.docx";

HttpSession session1=request.getSession(false);

Object uid=session1.getAttribute("UI");

try{

list=(ArrayList)session1.getAttribute("list");

for(String s:list)

{

System.out.println(s);

}

}catch(NullPointerException n)

{

list=null;

}

try {

Class.forName("com.mysql.jdbc.Driver");

Connection conn = DriverManager.getConnection(url, user, password);

String mail="";

String sql = "select \* from js\_profile";

PreparedStatement statement = conn.prepareStatement(sql);

// statement.setInt(1, 1);

ResultSet result = statement.executeQuery();

%>

<!-- Navigation bar -->

<div class="w3-bar w3-bar w3-light-grey w3-card-2" style="width:100%;">

<a href="#" class="w3-bar-item w3-button w3-red w3-mobile w3-padding-large"><i class="fa fa-bed w3-margin-right"></i>Here the Logo</a>

<a href="ViewProfile.jsp" class="w3-bar-item w3-button w3-padding-large">View Profile</a>

<a href="userhome.jsp" class="w3-bar-item w3-button w3-padding-large">Back to home</a>

<a href="Searching?skilltype=Exclude&&txt\_skills=''&&admin=no" class="w3-bar-item w3-button w3-padding-large">Search profiles</a>

<a href="Index.html" class="w3-bar-item w3-button w3-red w3-right w3-mobile w3-padding-large">logout</a>

<a href="#" class="w3-bar-item w3-button w3-right w3-padding-large">Settings</a>

</div>

<!-- End Navigation bar -->

<!-- Filtering area -->

<div id=reg class=" " >

<div class="w3-card-4" style="left:350px;position: absolute;width:1000px;height:250px; ">

<div class="w3-container w3-teal" style="">

<h2>Filter resumes here</h2>

</div>

<div style=position:relative; class="w3-center">

<button class=" w3-btn w3-teal " Style="width:250px;" id=bb1 onclick="btn1()" value="">Skills <span class="glyphicon glyphicon-chevron-down"></span></button>

<button class=" w3-btn w3-teal " Style="width:250px;" id=bb2 onclick="btn3()" value="">Experience <span class="glyphicon glyphicon-chevron-down"></span></button>

<button class=" w3-btn w3-teal " Style="width:250px;" id=bb3 onclick="btn2()" value="" disabled="disabled">Function <span class="glyphicon glyphicon-chevron-down"></span></button>

</div><br>

<div id=search class="w3-center">

<form action="Searching" method="get">

<input type="hidden" value="no" name=admin>

<table class="w3-table"><tr>

<td><input class=" " Style="width:350px;height: 50px;" type=text name=txt\_skills id=skills></td>

<td><input class="w3-radio" type=radio name=skilltype value=Any><strong> Any</strong></td>

<td><input class="w3-radio" type=radio name=skilltype value=All><strong> All</strong></td>

<td><input class="w3-radio" type=radio name=skilltype value=Exclude><strong> Exclude</strong></td>

<td><input class="w3-btn w3-teal" Style="width:250px;" type=Submit value=search></td></tr></table>

</form>

</div>

<form id=myform action=NoticeCal method=post>

<div id=loc\_search>

<table class="w3-table"><tr><td><strong>Min Notice period</strong><select name=note\_min onchange="change()" class="w3-select w3-teal">

<option value=0>immediate</option>

<option value=15>15 days</option>

<option value=30>30 days</option>

<option value=45>45 days</option>

<option value=60>2 months</option>

<option value=90>3 months</option>

<option value=180>6 months</option>

</select></td><td><strong>Max Notice period</strong><select name=note\_max onchange="change()" class="w3-select w3-teal">

<option value=0>immediate</option>

<option value=15>15 days</option>

<option value=30>30 days</option>

<option value=45>45 days</option>

<option value=60>2 months</option>

<option value=90>3 months</option>

<option value=180>6 months</option>

</select></td><td><strong>Min Experience</strong><select name=ex\_min onchange="change()" class="w3-select w3-teal">

<option value=0>fresher</option>

<option value=6>6 months</option>

<option value=12>1 year</option>

<option value=24>2 years</option>

<option value=36>3 years</option>

<option value=48>4 years</option>

<option value=60>5 years</option>

</select></td><td><strong>Max Experience</strong><select name=ex\_max onchange="change()" class="w3-select w3-teal">

<option value=0>fresher</option>

<option value=6>6 months</option>

<option value=12>1 year</option>

<option value=24>2 years</option>

<option value=36>3 years</option>

<option value=48>4 years</option>

<option value=60>5 years</option>

</select></td><td><input type=submit value=search class="w3-btn w3-teal" Style="margin-top: 22px;"></td></tr></table>

</div>

</form>

<!--END Filtering area -->

<div id=ind\_search>

<table class="w3-table"><tr><td><strong>location</strong><select class="w3-select w3-teal"><option>location</option></select></td>

<td><strong>industry</strong><select class="w3-select w3-teal"><option>industry</option></select></td>

<td><strong>function</strong><select class="w3-select w3-teal"><option>Function</option></select></td>

<td><input class="w3-btn w3-teal" type=submit value=search Style="margin-top: 22px;"></td></tr></table>

</div></div>

</div>

<!-- END Filtering area -->

<div style="top: 300px;left: 350px;position: absolute;">

<%

while(result.next()) {

for(String l:list)

{

if(result.getString(1).equalsIgnoreCase(l))

{

%> <div class="w3-card-4 " style="left:0px;top:10px;position: relative;width:1000px;height:400px;">

<div id=prohead style=height:50px;width:100%;background-color:#33adff;><h2 class="w3-text-white"><%=result.getString(1) %> <%=result.getString(3) %> Profile</h2></div>

<div id=prodiv>

<table style=top:0px;left:0px;position:relative;padding-left:126px;width:100%; id=tab1>

<tr><td width="200px">

<img src="img/user.png" Style=height:270px;width:230px;top:0px;left:0px;position:absolute;></td>

<td> <table class="w3-table">

<tr><td>Name</td><td><label><%=result.getString(1) %></label></td></tr>

<tr><td>mobile</td><td><label><%=result.getString(2) %></label></td></tr>

<tr><td>mail</td><td><label><%=result.getString(3) %></label></td></tr>

<tr><td>address</td><td><label><%=result.getString(4) %></label></td></tr>

<%-- <td>School Name</td><td><label><%=result.getString(5) %></label></td>

<td>CGPA\_10</td><td><label><%=result.getString(6) %></label></td>

<td>College</td><td><label><%=result.getString(7) %></label></td>

<td>CGPA\_12</td><td><label><%=result.getString(8) %></label></td>

<td>branch</td><td><label><%=result.getString(9) %></label></td>

<td>College\_name</td><td><label><%=result.getString(10) %></label></td>

<td>Branch</td><td><label><%=result.getString(11) %></label></td>

<td>year</td><td><label><%=result.getString(12) %></label></td>

<td>Skills</td><td><label><%=result.getString(13) %></label></td>

<td>Pre\_company</td><td><label><%=result.getString(14) %></label></td>

<td>Pre\_package</td><td><label><%=result.getString(15) %></label></td>

<td>Expecting package</td><td><label><%=result.getString(16) %></label></td>

<td>Resume</td><td><label><%=result.getString(17) %></label></td> --%></tr>

<%-- <%=result.getString(3) %></td><td>mobile</td><td><label><%=result.getString(2) %></label></td></tr>

<tr><td>Email\_Id</td><td><label><%=result.getString(3) %></label></td><td>address</td><td><label><%=result.getString(4) %></label></td></tr>

<tr><td>School name</td><td><label><%=result.getString(5) %></label></td><td>10\_CGPA</td><td><label><%=result.getInt(6) %> College name</label></td></tr>

<tr><td>D.O.B.</td><td><label><%=result.getDate(7) %></label></td><td>Notice Period</td><td><label><%=result.getInt(19) %> Days</label></td></tr>

<tr><td>Nationality</td><td><label>Indian</label></td><td>Current Location</td><td><label><%=result.getString(16) %></label></td></tr>

<tr><td>Gender</td><td><label><%=result.getString(6) %></label></td><td>Prefered location</td><td><label><%=result.getString(17) %></label></td></tr>

--%>

</table></td></tr>

</table>

<div id=profoot class="w3-panel" style="height:50px;width:100%;bottom:10px;position:absolute ;">

<form action="profiles.jsp">

<input type="hidden" value=<%=result.getString(3)%> name=name>

<h3><input type=Submit class="w3-btn w3-teal" value="view full profile"></a></h3>

</form>

</div>

</div>

</div>

<% }

}}

conn.close();

} catch (SQLException ex) {

ex.printStackTrace();

} catch (IOException ex) {

ex.printStackTrace();

} catch (Exception e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

%>

</div>

</body>

</html>

**CHAPTER 7**

**SNAPSHOTS**

**General:**

This project is implements like web application using COREJAVA and the Server process is maintained using the SOCKET & SERVERSOCKET and the Design part is played by Cascading Style Sheet.

**CHAPTER 8**

**SOFTWARE TESTING**

**8.1 GENERAL**

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.

**8.2 DEVELOPING METHODOLOGIES**

The test process is initiated by developing a comprehensive plan to test the general functionality and special features on a variety of platform combinations. Strict quality control procedures are used. The process verifies that the application meets the requirements specified in the system requirements document and is bug free. The following are the considerations used to develop the framework from developing the testing methodologies.

**8.3 Types of Tests**

**8.3.1 Unit testing**

Unit testing involves the design of test cases that validate that the internal program logic is functioning properly, and that program input 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.

**8.3.2 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.

**8.3.3 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.

**8.3.4 Performance Test**

The Performance test ensures that the output be produced within the time limits,and the time taken by the system for compiling, giving response to the users and request being send to the system for to retrieve the results.

**8.3.5 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.

**8.3.6 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.

**Acceptance testing for Data Synchronization:**

* The Acknowledgements will be received by the Sender Node after the Packets are received by the Destination Node
* The Route add operation is done only when there is a Route request in need
* The Status of Nodes information is done automatically in the Cache Updation process

**8.2.7 Build the test plan**

Any project can be divided into units that can be further performed for detailed processing. Then a testing strategy for each of this unit is carried out. Unit testing helps to identity the possible bugs in the individual component, so the component that has bugs can be identified and can be rectified from errors.

**CHAPTER 9**

**APPLICATION**

**9.1 GENERAL**

This study explored the application of interview robots on recruitment process. By adopting techniques including web crawling, text mining, and natural language processing, this study developed an effective system that matches job candidates with recruiters. The designed system analyzed electronic résumés in Traditional Chinese, on which the words were graded according to the job market on the Internet and implemented with techniques related to big data. The results demonstrated that the designed system identified the current demand on talent-seeking and quickly presented candidate rankings for a specific position, thereby fulfilling the needs of both job-hunting candidates and talent-seeking recruiters.

**9.2 FUTIRE ENHANCEMENTS**

In the future, to produce such reports, the designed system should not only consider recruitment websites as the source for collecting résumés and the requirements of large companies as the only reference for weighting. Therefore, further research should be conducted on how to customize reports according to the requirements of a specific firm. Thus, the company concerned can adjust the weighting standard pursuant to its required skills, personality traits, or even educational attainment to discover candidates who most closely meet its requirements.

**9.3 CONCLUSION**

In the system designed in this study, computing is performed on the basis of two models, namely DISC and the three competency dimensions. After a résumé is processed using these two models, the system produces a real-time online report that informs candidates of their soft power attributes (i.e., DISC dimensions) and competency ranking and shortcomings; this is a useful tool for self-evaluation. Recruiters can also understand job candidates through these online reports; the reports can serve as a reference for talent selection and evaluation.

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