**RESUME MANAGEMENT PORTAL**

INTRODUCTION:

1.1 OVERVIEW OF THE PROJECT:

The project is entitled as “RESUME MANAGEMENT PORTAL” is used for gathering candidate resumes, splitting their skill sets and other details automatically using a document parsing tool and correct the resume to the company needs accordingly. The project reduces the work of searching the candidates based on the skill sets and correcting the resumes to a specific format. The project sorts the candidate profiles in based on the priority of the company.

1.2 OBJECTIVES OF THE PROJECT:

The objectives of this project is to-

* Develop a database for all student resumes.
* Split the resumes based on their skill sets, internships and academic profile.
* Correcting / Re-formatting the resumes to the company needs accordingly.
* Outlining the resumes in a proper SPA (Single Page Application)

1.3 THE NEED FOR THE PROJECT:

A long job application process costs time and desired applicant information. The resumes may also have grammatical and typographical errors. The “**RESUME MANAGEMENT PORTAL**“can automatically list the details and convert the resumes to a specific format.

1.4 OVERVIEW OF EXISTING SYSTEMS AND TECHNOLOGIES:

In the existing system, the resumes are manually corrected for grammatical mistakes and typographical errors, verified for needed corrections and also manually changed to specific format.

In the proposed system automatically collects all the data provided in the resume and format the resume to specific pattern. The Application also allows the company to make searches on the skill sets of all candidates. The Candidate profile page created here gives necessary detail by splitting the data from resume documents. The reports can also be gathered by using search criteria.

Main Technologies associated with **RESUME MANAGEMENT PORTAL**

* Web programming technologies(SPRING BOOT, JSP, Angular JS)
* ORACLE Database
* Jenkins tool for deployment

1.5 SCOPE OF THE PROJECT

Main actors of this system

* Candidates
* Staffs
* Admin

Main use case associated:

1. Candidates

* View the candidate profile in the application
* Manually Submit updated resumes

1. Staffs

* View all the candidate profiles in the application
* Search the candidates based on criteria / skill set / academic details / internship details etc.
* Can also communicate with candidates through email using the application and share the profiles to recruiters.
* Provide reports on the profiles
* Manage the profiles on different hierarchies.

1. Admin

* Manage user setup and assign roles for users.
* View all the candidate profiles in the application
* Search the candidates based on criteria / skill set / academic details / internship details etc.
* Can also communicate with candidates through email using the application and share the profiles to recruiters.
* Provide reports on the profiles
* Manage the profiles on different hierarchies.

2. FEASIBILITY STUDY

2.1 FINANCIAL FEASIBILITY

Being a web application “**RESUME MANAGEMENT PORTAL**” will have an associated hosting cost. Since the system doesn’t consist of any multimedia data transfer, bandwidth required for the operation of this application is very low.

The system will follow the freeware software standards. No cost will be charged from the potential customers. Bug fixes will have an associated cost. Beside the associated cost, there will be many benefits for the customers

2.2 TECHNICAL FEASIBILITY

Project “**RESUME MANAGEMENT PORTAL**” is a complete web based application. The main technologies and tools that are associated here are

* HTML
* CSS
* JS
* JSP
* Angular JS
* Maven
* Eclipse IDE
* Tomcat 8.5
* SPRING 5
* SPRING BOOT
* ORACLE
* JENKINS

Each of the technologies are freely available and the skills required are manageable. Time limitations of the product development and the ease of implementing using these technologies are synchronizes.

**Requirements for Jenkins:**

Minimum hardware requirements:

* 256 MB of RAM
* 1 GB of drive space (although 10 GB is a recommended minimum if running Jenkins as a [Docker](https://jenkins.io/doc/book/installing/#docker) container)

Hardware configuration for a small team:

* 1 GB+ of RAM
* 50 GB+ of drive space

2.3 RESOURCE AND TIME FEASIBILITY:

Resource feasibility

Resource that are required for the “**RESUME MANAGEMENT PORTAL**” project includes,

* Programming device (laptop)
* Hosting space (freely available)
* Programming tools (freely available) – except Oracle.
* Programming individuals
* Uploading in GIT (Free)
* Develops server for Jenkins

So it’s clear that the project **RESUME MANAGEMENT PORTAL** has the requires resource feasibility

2.4 RISK FEASIBILITY

Risk feasibility can be discussed under several contexts.

Risk associated with size

**Estimated size of the product in line of codes:**

Being a web application with many number of stakeholders. RESUME MANAGEMENT PORTAL will contain significant amount of code lines. As the system doesn’t contain any multimedia aspect, the file sizes and the complete project size will not exceed 200 MB

**Estimated size of the product in number of programs:**

Though the application supports many candidates and staffs, it will be constructed as a single web application with a single login page than having any number of sites for different users. Depending upon the access rights the contents will be shown or hidden.

**Size of database created or used by the product:**

Since there is a need to maintain and manage keywords on latest technologies, for parsing and storing candidate details,OracleDatabase chosen will be feasible for the application. Number of relations and entities are minimized by using best practices of normalization theories.

**Effect of this product on company revenue:**

The project can be implemented either as an individual system, or can be integrated to an existing system.

Customer related risks:

“RESUME MENAGEMENT PORTAL“is a general type of product (not designed just for a single organization / college). Before implementing the system in any institute, there will be some basic modifications required.

Are compilers or code generators available and appropriate for the product to be built?

JSP will be used as the main scripting language. All the libraries and interpreters will be freely available.

Are testing tools available and appropriate for the product to be built?

JUNIT is the main testing tool that will be used. JUNIT is freely available tool that supports automated testing.

Does the environment make use of a database or repository?

This is a database oriented system that will use ORACLE.

Are all the software tools integrated with one another?

Main deliverables will be packaged under a single project. All the lecturers and students will have a single login page.

Social/Legal Feasibility

The project uses freely available development tools and provides the system as an open source system. Only the maintenance cost will be charged from potential customers.

JSP Software libraries that are used in this system are free open source libraries.

Since this new system eliminates the effort to search pattern for each company individually, it will have a great impact in a resume system.