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**INTRODUCTION**

**TO**

**PROJECT**

**1.1 Company Profile**

* **Company Name:**VR Software Solution



* **Our Mission:**

“Our Mission is to Computerized the world. We have started it from our state and soon we will be in globe”

### Our Vision:

“To make the world better. Place to live with luxurious life.”

### Our Solutions and Services:

* ERP Training
* Implementation Support
* Application Development
* Embedded Products Development
* Product Design Services
* Industrial Product Image Processing
* Windows Web Hosting
* Responsive web applications
* We offer an array of world class technologies with an unwavering focus on our vision.   
  We enact to provide excellence in the field of IT services, comprehending the futuristic information technology needs and its stringent standards.

### We are now presented with the opportunity to evolve, to deploy technology for achieving inclusive growth, to ignite bright minds that solve problems of global significance, to collaborate and to innovate.

### We strive to be global partners of choice to our users in our focus industries, we are committed to helping them grow while being environmentally sensitive, which is an abiding passion for us.

### We help our users by providing them transformational Business Information Technology solutions so that they can run their businesses more efficiently.

### We also help our users build innovative, intelligent products.

**1.2 PROBLEM DEFINATION**

Making resumes manually was taking long time in interview process and as well as for candidates if any urgent interview scheduled and need urgent resume.

Company need candidates formats as per client specific need and it’s a burden on HR to convert candidates received resumes formats into client specific formats.

To make resume candidates requires desktop or laptops to make resumes. Having this application candidates can make resume on smart phone as well.

**1.3 NEED OF Proposed System**

1. Manage the employee resumes in less time is not a simple way to HR.
2. Automate the resume instead of creating it manually.
3. Create resume without any word doc application.
4. Manual creation takes too much time and hard to make a same template which company requested to develop.
5. After completing steps to automate resume employee directly download and send to HR or concern person for further process or he can print it.

**1.4 EXISTING SYSTEM**

* Company have their own predefined resume formats and they suggest the same format to have for further interview processes.
* Candidates takes too much time in making companies requested resume formats by adding their information.
* If candidates fails to manage the defined format with his records in given timestamp then it will lead to big time loss for company as many members are part of on-boarding activity or interview process.
* Candidate need Microsoft word application to be installed to create resume.

**1.5 SCOPE OF THE SYSTEM**

* To design and develop a web application for SmartResume generation to automate it.
* Make it platform and browser independent and responsive.
* Employee login with his company provided login credentials to use this web application.
* Employee will fill the auto generated form multiple times as per his information.
* Resume generation in quick time or in less minutes.
* Resume downloading as pdf format or print directly.
* Responsive web design for mobile view.

**1.6 OBJECTIVE OF PROPOSED SYSTEM**

* To save time.
* Provides making resume on smart phone as well.
* To reduce manual work.
* To provide user friendly system.
* To facilities speedy access to HR and interview process details.

**2. SYSTEM ANALYSIS**

**2.1 FACT FINDINGS TECHNIQUES**

**QUESTIONNAIRE**

The use of this allows analyst to collect information about various aspects of system from large number of persons .The standard format of question can produce more reliable data .However this method does not allow the analyst to observer the expression or reactions of respondents.

Requirement analysis is the initial phase of the system development. This analysis help to find out what exactly the customer or user want so that we can give the solution to them technically. When we do such analysis we come to know the intension behind that system and also realize the problem with the current system and try to give best solution. By doing this we can find out the facts relating to the current system and proposed system.

There are various methods are used for requirement analysis but in this project using questioners technique. in this we prepared a set of questions and ask to the client to get the answers. Some of the questions are listed below with client answers.

**Q.1 what is the intension to having a web application?**

**Answer:** As we know in todays world all people have internet connection and they can use mobile with internet any time to work on resume. To reduce time and have a application to all users in any place we suggest to have a web application.

**Q.2 what is the problem in existing System?**

**Answer:** As you know manual creation of resume needs lot of work to the users so we have no time to give all relevant guidance to each user. Sometimes we requires resume in quick time as client have no time to wait for short. It was time consuming work.

**Q.3 why you think web application is best solution?**

**Answer:** Now a day’s many people are using internet and as I said before it is the modern way to have this application. And it acts like a bridge between HR and users directly.

**Q.4 what exact content you want to put on this web application?**

**Answer:** Look my requirement is very less my intension is to automate the resume so that interview process will become fast

**RECORD REVIEW**

Many kinds of records can provide valuable information about organization and operations so analyst can examine information that has been recorded about system and about users information can be performed at beginning of study as an introduction or it can be performed after the study as the basis for comparing the actual operation with what the records indicate should be happening.

**OBSERVATION**

Observation on the field gives clear idea about the working of the system. Also give the new ideas about the proposed the system.

**INTREVIEW**

Interview with different types of people helps to find out the requirement of the system. Also just a causal talk to a user can give valuable requirement specification .Also it helps to improve the relation with the user and client.

**2.2 FEASIBILITY STUDY**

The main objective of a feasibility study is to test the technical, operation and economical feasibility of developing computer system. This is done by investigation of the existing system in the area under investigation and generating ideas about new system.

The proposed system might be evaluated from a technical view point .If compatible social and technical system can be devised then they must be tested for economic feasibility.

* ECONOMICAL FEASIBILITY
* OPERATIONAL FEASIBILITY
* TECHNICAL FEASIBILITY

**ECONOMICAL FEASIBILITY**

Proposed system is to be justified by the cost and benefit analysis to ensure that effort is concentrated on the project which will give the best return at the earliest opportunity. The technique of cost benefit analysis is often use as a basis for accessing economic feasibility.

**THE FACTOR OF EVALUATION ARE :**

* Cost of operation of the existing and proposed system.
* Cost of development of the proposed system.
* Value of the benefit of the proposed system.
* The cost of operation of the existing and proposed system is nil since there is no need installing H/W , education etc.

**OPERATIONAL FEASIBILITY**

As the application is made also for users who are not from computer background e have kept the screens menu very simple so that a normal user can also understand it and use it properly with no difficulty.

User also don’t have to search for the server name as it takes directly with the help of WMI concepts.

**TECHNICAL FEASIBILITY**

Technical feasibility will need to consider the possibility of using machine available in the nature of hardware being machine available in the nature of hardware being used in the system .It is always better to select the best package which will be easy to implement the system designing and it must be as flexible as possible with other programmers or outside developers.

The proposed system will be portable to any machine that supports a JAVA compiler where the system could be executed or a suitable environment where the executable obtained from the program could be directly executed.

**2.3 H/W& S/W REQUIREMENT**

**Software Requirement:-**

* Visual Studio 2017 for .Net(optional)
* Eclipse for Java.
* My SQL
* Spring Boot Tool
* Apache Tomcat 9.1
* IIS 6.
* Window 10, Win 7, XP3.
* Web browser new version for better performance.
* Word reader or PDF reader latest version in 2020

**Hardware Requirement:-**

* Personal Computer.
* 5 GB Hard Disk.
* 1 GB Ram
* High Speed Microprocessor.
* Internet Connection.

**3. system design**

**3.1 ER Diagram**

Summary

M

M

M M

on

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Education

Experience

has

PersonalInfo

User

M M M

Have

for

M M

Have

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M

M

Skills

M

M

**web\_server**

**web\_tech**

M

M

M

M

**frame\_work**

M

**app\_server**

**opensource\_tech**

**prog\_lang prog\_lang**

**4. System Testing**

**White-Box testing**

White-box testing (also known as clear box testing, glass box testing, transparent box testing, and structural testing) is a method of testing s/w that tests internal structures or workings of an application, as opposed to its functionality. In white-box testing an internal perspective of the system, as well as programming skills, are used to design test cases. The tester chooses inputs to exercise paths through the code and determine the appropriate outputs. This is analogous to testing nodes in a circuit.

While white-box testing can be applied at the unit, integration and system levels of the s/w Testing process, it is usually done at the unit level. It can test paths within a unit, paths between units during integration, and between subsystems during a system–level test. Though this method of test design can uncover many errors or problems, it might not detect unimplemented parts of the specification or missing requirements.

White-box test design techniques include:

* Control flow testing
* Data flow testing
* Branch testing
* Path testing
* Statement coverage
* Decision coverage

**Black-Box testing**

Black-box testing is a method of s/w testing that examines the functionality of an application (e.g. what the software does) without peering into its internal structures or workings (see white –Box Testing). This method of test can be applied to virtually every level of software testing: unit, integration, system and acceptance. It typically comprises most if not all higher level testing, but can also dominate [unit testing](http://en.wikipedia.org/wiki/Unit_testing) as well

**Unit testing**

In [computer programming](http://en.wikipedia.org/wiki/Computer_programming), unit testing is a [software testing](http://en.wikipedia.org/wiki/Software_testing) method by which individual units of [source code](http://en.wikipedia.org/wiki/Source_code), sets of one or more computer program modules together with associated control data, usage procedures, and operating procedures are tested to determine if they are fit for use. Intuitively, one can view a unit as the smallest testable part of an application. In [procedural, programming](http://en.wikipedia.org/wiki/Procedural_programming) , a unit could be an entire module, but it is more commonly an individual function or procedure. In [object-oriented programming](http://en.wikipedia.org/wiki/Object-oriented_programming), a unit is often an entire interface, such as a class, but could be an individual method. Unit tests are short code fragments created by programmers or occasionally by [white box testers](http://en.wikipedia.org/wiki/White-box_testing) during the development process.

Ideally, each [test case](http://en.wikipedia.org/wiki/Test_case) is independent from the others. Substitutes such as [method stubs](http://en.wikipedia.org/wiki/Method_stub), [mock objects](http://en.wikipedia.org/wiki/Mock_object), [fakes](http://en.wikipedia.org/wiki/Mock_object#Mocks.2C_fakes_and_stubs), and [test harnesses](http://en.wikipedia.org/wiki/Test_harness) can be used to assist testing a module in isolation. Unit tests are typically written and run by [software developers](http://en.wikipedia.org/wiki/Software_developer) to ensure that code meets its design and behaves as intended.

**Test cases**

**Admin Form:-**

**Admin name:-**It should be of maximum 5 character word. Also not be blank.

**Password :-** It should be of maximum 5 character word.Also not be blank.

**Confirm Password :-**Password and Conform password should be same.

**Submit Button:-**Should add the information to the database.

**User Form:-**

**Username:-**It should be of maximum 5 character word. Also not be blank.

**Password :-** It should be of maximum 5 character word.Also not be blank.

**ConfirmPassword :-**Password and Conform password should be same.

**SubmitButton:-**Should add the information to the database.

**Email verification:**

Email should be in proper format:

^[^@]+@[^@]+\.[^@]+$]

**Recovery Password:**

Recovery password must be valid: Required format is [xxxx@yyyy.com](mailto:xxxx@yyyy.com)

**3.3 Data Dictionary**

**Table Structure :**

1. **User Table:-**

**Field Type Null Key**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| id | bigint(20) | NO | PRI |  |  |
| confirm\_pass | varchar(50) | YES |  |  |  |
| password | varchar(50) | YES |  |  |  |
| username | varchar(50) | YES |  |  |  |

1. **Personal Table:-**

**per\_id** column is **primary key** in **personal** table. **summary\_id** column is **MUL(nonunique index)** key in **personal** table.

**Field Type Null Key**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| per\_id | bigint(20) | NO | PRI |  |  |
| address | varchar(100) | YES |  |  |  |
| city | varchar(15) | YES |  |  |  |
| country | varchar(15) | YES |  |  |  |
| email | varchar(50) | YES |  |  |  |
| first\_name | varchar(50) | YES |  |  |  |
| last\_name | varchar(50) | YES |  |  |  |
| modify\_date | date | YES |  |  |  |
| phone | bigint(20) | YES |  |  |  |
| zip\_code | int(11) | YES |  |  |  |
| summary\_id | bigint(20) | YES | MUL |  |  |

1. **education\_details Table:-**

**per\_id** column is **foreign key** in **education\_details** table.

**Field Type Null Key**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| id | bigint(20) | NO | PRI |  |  |
| city | varchar(15) | YES |  |  |  |
| degree | varchar(50) | YES |  |  |  |
| field | varchar(50) | YES |  |  |  |
| g\_month | varchar(11) | YES |  |  |  |
| g\_year | int(11) | YES |  |  |  |
| school\_name | varchar(50) | YES |  |  |  |
| state | varchar(15) | YES |  |  |  |
| per\_id | bigint(20) | YES | MUL |  |  |

1. **experience\_details Table:-**

**per\_id** column is **foreign key** in **experience\_details** table.

**Field Type Null Key**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| id | bigint(20) | NO | PRI |  |  |
| designation | varchar(50) | YES |  |  |  |
| e\_month | varchar(11) | YES |  |  |  |
| e\_year | int(11) | YES |  |  |  |
| employer | varchar(50) | YES |  |  |  |
| job\_desc | varchar(1000) | YES |  |  |  |
| job\_title | varchar(50) | YES |  |  |  |
| project\_desc | varchar(1000) | YES |  |  |  |
| project\_name | varchar(100) | YES |  |  |  |
| s\_month | varchar(11) | YES |  |  |  |
| s\_year | int(11) | YES |  |  |  |
| per\_id | bigint(20) | YES | MUL |  |  |

1. **Skill Tables:-**
2. **personal\_info\_app\_server Table:-**

**personal\_info\_per\_id** column is **foreign key** in **personal\_info\_app\_server** table.

**Field Type Null Key**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| personal\_info\_per\_id | bigint(20) | NO | MUL |  |  |
| app\_server | varchar(20) | YES |  |  |  |

1. **personal\_info\_frame\_work Table:-**

**personal\_info\_per\_id** column is **foreign key** in **personal\_info\_frame\_work** table.

**Field Type Null Key**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| personal\_info\_per\_id | bigint(20) | NO | MUL |  |  |
| frame\_work | varchar(20) | YES |  |  |  |

1. **personal\_info\_prog\_lang Table:-**

**personal\_info\_per\_id** column is **foreign key** in **personal\_info\_prog\_lang** table.

**Field Type Null Key**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| personal\_info\_per\_id | bigint(20) | NO | MUL |  |  |
| prog\_lang | varchar(20) | YES |  |  |  |

1. **personal\_info\_opensource\_tech Table:-**

**personal\_info\_per\_id** column is **foreign key** in **personal\_info\_opensource\_tech** table.

**Field Type Null Key**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| personal\_info\_per\_id | bigint(20) | NO | MUL |  |  |
| open\_source\_tech | varchar(20) | YES |  |  |  |

1. **personal\_info\_web\_server Table:-**

**personal\_info\_per\_id** column is **foreign key** in **personal\_info\_web\_server** table.

**Field Type Null Key**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| personal\_info\_per\_id | bigint(20) | NO | MUL |  |  |
| web\_server | varchar(20) | YES |  |  |  |

1. **personal\_info\_web\_tech Table:-**

**personal\_info\_per\_id** column is **foreign key** in **personal\_info\_web\_tech** table.

**Field Type Null Key**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| personal\_info\_per\_id | bigint(20) | NO | MUL |  |  |
| web\_tech | varchar(20) | YES |  |  |  |

1. **Summary Table:-**

**Field Type Null Key**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Id | bigint(20) | NO | PRI |  |  |
| summary | varchar(1000) | YES |  |  |  |

**5. LIMITATIONS**

**&**

**FUTURE ENHANCEMENT**

**LIMITATION**

* Need proper Internet connection with desktop, laptop or smart phone.
* If no internet connection, then user have to do manual effort to create the resume and it will take huge time in process.
* Company users can only use this application. Not for outside users
* Existing user data is not retaining so that user will not get his history.
* No Need to have microsoft word doc application while creating resume but need it if candidate saved created resume in DOC format and want to open it.

**Future Enhancement**

Going forward we are planning to convert this application on android app.

Gathering existing information and will show different suitable resume formats to users.

We will capture existing users information so that user can update small change and will proceed ahead.

**6. CONCLUSION**

Creating SmartResumes application will save huge time of user, HR, project manager, project client in interview process.

It will help in urgency of interview to create resumes.

Sometimes company HR gets lots of different resumes format from outside user who attending for interview, and project clients requires specific resume formats for interview, so in that case due to SmartResume application HR will get benefit to make specific format of resume on basis of candidates resumes.

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