Resume Generator

A PROJECT REPORT

SUBMITTED BY

Divyansh Varshney
(University Roll No:2000290140043)

A Thesis Submitted
in Partial Fulfillment of the Requirements
for the Degree of

MASTER OF COMPUTER APPLICATION

Under the Supervision of

Mr. Ankit Verma
ASSISTANT PROFESSOR
KIET Group of Institution, Ghaziabad

DR. APJ ABDUL KALAM TECHNICAL UNIVERSITY,
(Formerly Uttar Pradesh Technical University) LUCKNOW

DECLARATION

We hereby declare that the work presented in this report entitled "**Resume Generator** ", was carried out by us. We have not submitted the matter embodied in this report for the award of any other degree or diploma of any other University or Institute.

We have given due credit to the original authors/sources for all the words, ideas, diagrams, graphics, computer programs, experiments, results, that are not my original contribution. We have used quotation marks to identify verbatim sentences and given credit to the original authors/sources.

Name : **DIVYANSH VARSHNEY**

Roll. No. : **University Roll No.1900290149103**

Field : **M.C.A. 3rd Semester**

ACKNOWLEGMENT

Here, I gladly present this project report on **"Resume Generator"** as part of the 3rd semester MCA Master in Computer Applications. I take this occasion to thank God, almighty for blessing me with his grace and taking our endeavor to a successful culmination. I extend my sincere and heartfelt thanks to me esteemed guide, for providing me with the right guidance and advice at the crucial junctures and for showing me the right way. I have many understanding friends, who have helped me a lot on many critical conditions. Finally, my sincere thanks go to my family members and all those who have directly and indirectly provided me moral support and other kind of help. Without their support, completion of this work would not have been possible in time. They keep my life filled with enjoyment and happiness.

DIVYANSH VARSHNEY

CETIFICATE

Certified that **Divyansh Varshney** (**University Roll No.2000290140043),** have carried out the project work having "Resume Generator" for Master of Computer Applications from Dr. A.P.J. Abdul Kalam Technical University (AKTU) (formerly UPTU), Technical University, Lucknow under my supervision. The project report embodies original work, and studies are carried out by the student himself/herself and the contents of the project report do not form the basis for the award of any other degree to the candidate or to anybody else from this or any other University/Institution.

Date:

DIVYANSH VARSHNEY
(University Roll No. 2000290140043)

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

Date :

Mr. Ankit Verma
Associate Professor
Department of Computer Applications
KIET Group of Institutions, Ghaziabad

Signature of Internal Examiner **Signature of External Examiner**

Dr. Ajay Shrivastava
Head, Department of Computer Applications
KIET Group of Institutions, Ghaziabad

TABLE OF CONTENTS

CHAPTER-V

CHAPTER-VI

CHAPTER-VII

CHAPTER-VIII

CHAPTER-IX

CHAPTER-X

CHAPTER-XI

LIST OF TABLES

LIST OF FIGURES

Abstract

1.0 ***Introduction***

Resume is the first meeting between you and a prospective employer more often now than ever. So, how do you want to be remembered ? Wrinkled and unorganized. Neat and structured. Long and boring. Precise and interesting. Companies do not have the time to interview every applicant that is interested in the job. If they did, there would not be a company to work for. They use an eliminating process. That's right - resumes.

When a job seeker wants to apply for a job online then generally he/she needs to attach his/her resume with the email.Online Resume Building System provides the users the popular resume formats & a better way to show their resumesto the employers. A job seeker does not need to attach aresume with every email, he/she just have to include the URL ofhis/her resume and the employer can view the resume online by clicking on the link and can download as well.

1.1 Purpose

Purpose of Online Resume Builder is to provide a way to the customers to des gn the r resumes according to the r requirements.

a) Creating resumes online.
b) Customizing the look and details.
c) Keeping track of the customers and their resumes.

1.2 Scope

Online Resume Builder can be used in accordance with the requirements of the customers. Customers can customize their resumes with their choice of themes & details. The services are hard to be defeated by the competitors as the system is providing the customers exactly what they want.

1.3 Overview

- Project is related to Online Resume

Building.

- This project maintains 3 types of users.
  - Administrator User
  - Users(Customers)
  - Viewers

- Facilities provided by this projects are as follows
  - Details of customers are recorded.
  - Update of data is easy.
  - Flow of information is fast and easy.
  - Customers can login to their accounts and view & update their data.
  - Notifications about resume views & downloads.

1.4 Goals of Proposed System

1) Planned approach towards working: - The working of the system will be well planned and organized. The data will be stored properly in data stores, which will help in retrieval of information as well as its storage.
2) Accuracy: - The level of accuracy in the proposed system will be higher. All operation would be done correctly and it ensures that whatever information is coming from the system is accurate.

3) Reliability: - The reliability of the proposed system will be high due to the above stated reasons. The reason for the increased reliability of the system is that now there would be proper storage of information.
4) No redundancy: - In the proposed system utmost care would be that no information is repeated anywhere, in storage or otherwise. This would assure economic use of storage space and consistency in the data stored.
5) Immediate Retrieval of Information: - The ma n objective of proposed system is to provide for a quick and efficient retrieval of information. Any type of information would be available whenever the user requires.
6) Immediate storage of information: - In manual system there are many problems to store & update the large amount of information.
7) Easy to operate: - The system should be easy to operate and should be such that it can be easily understood by a new user

1.5 Background

Online Resume Builder is a system which allows the customers to design their resumes in accordance with their requirements.

System provides facilities like…

- Custom zing the resumes according to the user requirements.
- Editing the design.
- Choosing from latest professional designers.
- Viewed resume notification for the customers.

Various operations done in the system are as follows…

- Registering customers.
- Access to viewers/employers is allowed for public/shareddata only.
- Writing resumes.
- Editing in design.
- Keeping track of latest formats of resumes.
- Viewed resume notification.

1.6 Project Requirements

Software Requirements	
Operating System	*Software Required*
Win-98, Win-XP, Linux or any other higher version	Internet Explorer, Mozilla Firefox or any web browser

Hardware Requirements	
Processor	*RAM*
Pentium II, Pentium III, Pentium IV or higher	64MB or Higher

1.0 Technologies Used

This project will be an Internet application to be developed in following tools and technologies.

- AJAX (Asynchronous JavaScript and XML) – It is used to make Internet application smaller, faster and more user-friendly.
- CORELDRAW – It is a tool to create graphics for web application.
- CSS (Cascading Style Sheets) – It is used to create stylish web pages.
- DHTML (Dynamic Hyper Text Markup Language) – It is used to create dynamic web pages.
- DREAMWEAVER – It is a tool to develop web pages.
- FLASHMAKER – It is a tool to develop dynamic graphics for web application.
- HTML (Hyper Text Markup Language) – It is used to describe web pages.
- HTML DOM (Hyper Text Markup Language Document Object Model) – It s used to define a standard way for access ng and man pu ating HTML documents.
- JAVASCRIPT – It is used improve the design, validate forms, detect browsers, create cookies, and much more.
- PHOTOSHOP – It is a tool to create graphics for web applications.
- SQL (Structured Query Language) – It is a standard language for accessing and manipulating databases.
- VBSCRIPT (Visual Basic Script) – t s a M crosoft scripting language. It is used into HTML files to make webpages more dynamic and interactive.
- XML (Extensible Markup Language) – It is used to

transport and store data over the Internet.

1.7 User Characteristics

Every user should be:

- Comfortable in working with computer.
- He must have knowledge of resume writing.
- He must also have basic knowledge of English language.

1.8 Constraints

- GUI is only in English.
- Login and password is used for identification of user.

1.9 Definition of Problems

Problems with conventional system are as follows.

- Lack of immediate retrievals: - The information is very difficult to retrieve and to find particular information.
  This results in inconvenience and wastage of time.
- Lack of immediate information storage: - The information generated by various transactions takes time and efforts to be stored at right place.
- Lack of prompt updating: - Various changes to information are difficult to make as paper work is involved.
- Error prone manual calculation: - Manual calculations are error prone and take a lot of time this may result in incorrect information.
- Preparation of accurate and prompt reports: -
  This becomes a difficult task as information is difficult to collect from various registers.

2.0 Feasibility Study

Depending on the results of the initial investigation the survey s now expanded to a more deta ed feas b ity study. “FEASIBILITY STUDY” is a test of system proposal according to its workability, impact of the organization, ability to meet needs and effective use of the resources. It focuses on these major questions:

- What are the user’s demonstrable needs and how does a system meet them?
- What resources are available for given system?
- What are the likely impacts of the system on the organization?
- Whether it is worth to solve the problem?

During feasibility analysis for this project, following primary areas of interest are to be considered. Investigation and generating ideas about a new system does this.

Steps in feasibility analysis

Eight steps involved in the feasibility analysis are:

- Form a project team and appoint a project leader.

- Prepare system flowcharts.
- Enumerate potential proposed system.
- Define and identify characteristics of proposed system.
- Determine and eva uate performance and costeffectiveness of each proposed system.
- Weight system performance and cost data.
- Select the best-proposed system.
- Prepare and report final project directive to management.

2.1 Technical Feasibility

Technical feasibility is the study of resource availability that may affect the ability to achieve an acceptable system. This evaluation determines whether the technology needed for the proposed system is available or not.

- Can the work for the project be done w th current equipment existing software technology & available personal?
- Can the system be upgraded if developed?
- If new technology is needed then what can be developed?

This is concerned with specifying equipment and software that will successfully satisfy the user requirement. The technical needs of the system may include:

Front-end and back-end selection

An important issue for the development of a project is the selection of suitable front-end and back-end. When we decided to develop the project we went through an extensive study to determine the most suitable platform that suits the needs of the academy as well as helps in development of the

project.
The aspects of our study included the following factors.

Front-end selection:

- It must have a graphical user interface that assists usersthat are not an advanced user of computer.
- Scalability and extensibility.
- Flexibility.
- Robustness.
- According to the organization requirement and theculture.

- Must provide excellent reporting features with goodprinting support.
- Platform independent.
- Easy to debug and maintain.
- Event driven programming facility.
- Front end must support some popular back end like MsAccess.

According to the above stated features we selected Web Browser as the front-end for developing our project.

Back-end Selection:

- Multiple user support.
- Efficient data handling.
- Provide inherent features for security.
- Efficient data retrieval and maintenance.
- Stored procedures.
- Popularity.
- Operating System compatible.
- Easy to install.
- Various drivers must be available.
- Easy to implant with the Front-end.

According to above stated features we selected MY SQL as the backend.

The technical feasibility is frequently the most difficult area encountered at this stage. It is essential that the process of analysis and definition be conducted in parallel with an assessment to technical feasibility. It centers on the existing computer system (hardware, software etc.) and to what extent it can support the proposed system.

2.2 Economical Feasibility

Economic justification is generally the “Bottom Line” consideration for most systems. Economic justification includes a broad range of concerns that includes cost benefit analysis. In this we weight the cost and the benefits associated with the candidate system and if it suits the basic purpose of the organization i.e. profit making, the project is making to the analysis and design phase.

The financial and the economic questions during the preliminary investigation are verified to estimate the following:

- The cost to conduct a full system investigation.
- The cost of hardware and software for the class of application being considered.
- The benefits in the form of reduced cost.
- The proposed system will give the minute information, asa result the performance is improved which in turn may be expected to provide increased profits.
- Th s feas b ty checks whether the system can be developed with the available funds. Online Resume Builder does not require enormous amount of money to be developed. This can be done economically if planned judicially, so it is economically feasible. The cost of project depends upon the number of man-hours required.

2.3 Operational Feasibility

It is mainly related to human organizations and political aspects. The points to be considered are:

- What changes will be brought with the system?
- What organization structures are disturbed?
- What new skills will be required? Do the existing staff members have these skills? If not, can they be trained in due course of time?

The system is operationally feasible as it very easy for the Endusers to operate it.

2.4 Schedule Feasibility

Time evaluation is the most important consideration in the development of project. The time schedule required for the development of this project is very important since more development time effect machine time, cost and cause delay inthe development of other systems.

Online Resume Builder can be developed in the considerable amount of time.

3.0 System Analysis

System analysis uses a combination of text and diagrammatic forms to depict requirements for data, function and behavior in a way that is relatively easy to understand, and more mportant, stra ghtforward to rev ew for correctness,completeness and consistency.

3.1 Working of Present System

Present system is the manual system where every task is performed again & again. We need to manually change the format of the resume. Sending of resumes is done manually. All the activities n the system, which can be done by us ng automated methods, are being done manually. Since all tasks are being performed manually so it needs a lot of work force.

3.2 Disadvantages of Present System

Since, our present system is a manual system it has several disadvantages described below:

- Lack of immediate retrievals: - The information is very difficult to retrieve (download) and to find particular information. This results in inconvenience and wastage of time.
- Lack of immediate information storage: - The information takes time and efforts to be attached again & again with mails or to be sent by post.

- Lack of prompt updating: - Various changes to information are difficult to make if resume is sent.
- Error prone manual calculation: - Manual calculations are error prone and take a lot of time this may result in incorrect information.
- Preparation of accurate and prompt reports: -

This becomes a difficult task as information is difficult to collect from various registers.

Proposed System

Our proposed system provides automation to Resume Building.

This system provides online storage/ updates and retrieval

facility. This system promises very less or no paper work and also provides help to customers and viewers/employers. In this system everything is stored electronically so very less amount of paper work is required and information can be retrieved veryeasily without searching here and there into registers.

This system ensures certain features that are not available withpresent manual system. These are described below:

a) Planned approach towards working: - The working in the system will be well planned and organized. The data will be stored properly in data stores, which will help in retrieval of information as well as its storage.
b) Accuracy: - The level of accuracy in the proposed system will be higher. All operation would be done correctly and it ensures that whatever information is coming from the server is accurate.
c) Reliability: - The reliability of the proposed system will be high due to the above stated reasons. The reason for the increased reliability of the system is that now there wouldbe proper storage of information.
d) No Redundancy: - In the proposed system utmost care would be that no information is repeated anywhere, in storage or otherwise. This would assure economic use of storage space and consistency in the data stored.

e) Immediate Retrieval of Information: - The main objective of proposed system is to provide for a quick and efficient retrieval of information. Any type of information would be available whenever the viewer or customer requires.
f) Immediate storage of information: - In manual system there are many problems to store & update the large amount of information.
g) Easy to Operate: - The system should be easy to operate and should be such that it can be developed within a short period of time and fit in the limited budget of the user.

3.3 Architectural Design

Architectural design represents the structure of data and program components that are required to build a computer- based system. It considers the architectural style that the system will take, the structure and properties of the components that constitute the system, and the nterre at onsh ps that occur among all architectural components of a system.

Figure: Architectural Diagram

3.4 E-R Diagram

T he object/relationship pair is the cornerstone of the data model. These pairs are represented graphically using E-R
diagrams. A set of primary components are identified for the ERD: data objects, attributes, relationships and various type indicators. The primary purpose of ERD is to represent data objects and their relationships.

Figure: Entity-Relationship Diagram

3.5 DFD

T he data flow diagram enables the software engineer to develop models of the information domain and functional
domain at the same time. As the DFD is refined into greater level of detail, the analyst performs an implicit functional decomposition of the system. At the same time, the DFD refinement results in corresponding refinement of data as it moves through the processes that embody the application.

Figure: Context Level Data Flow Diagram

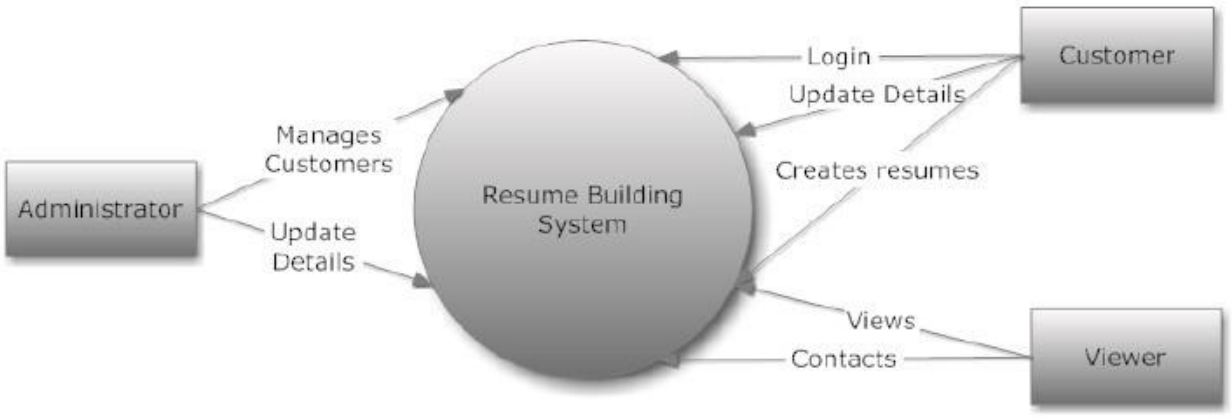
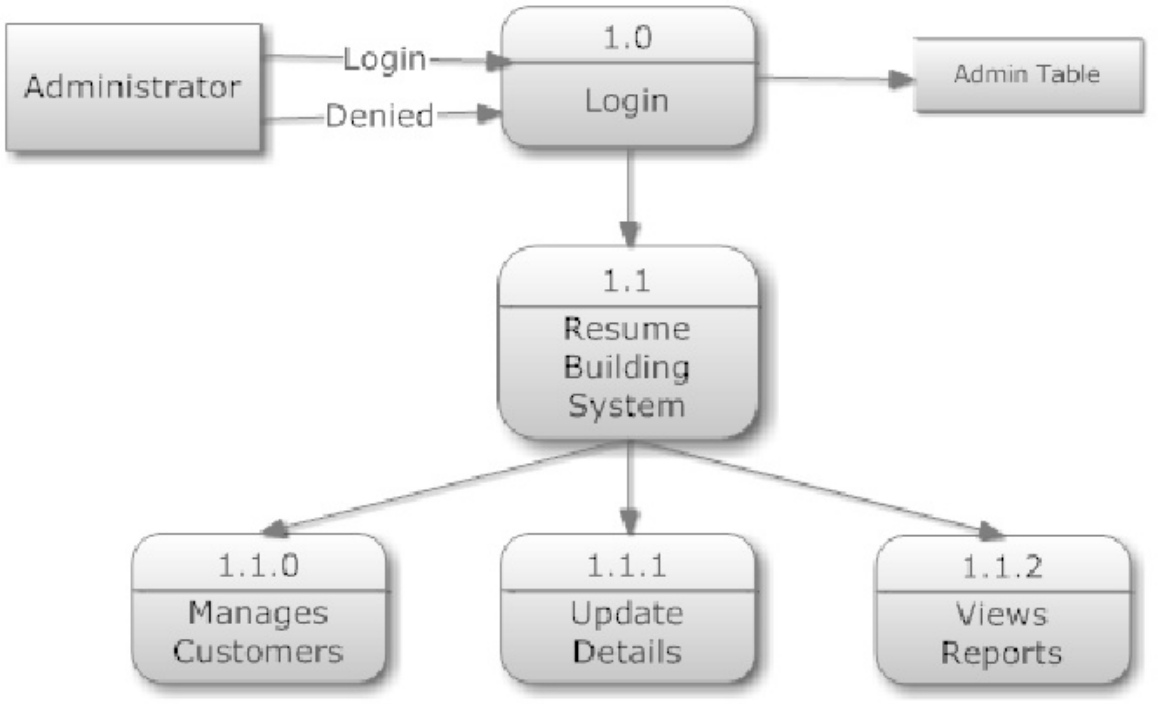
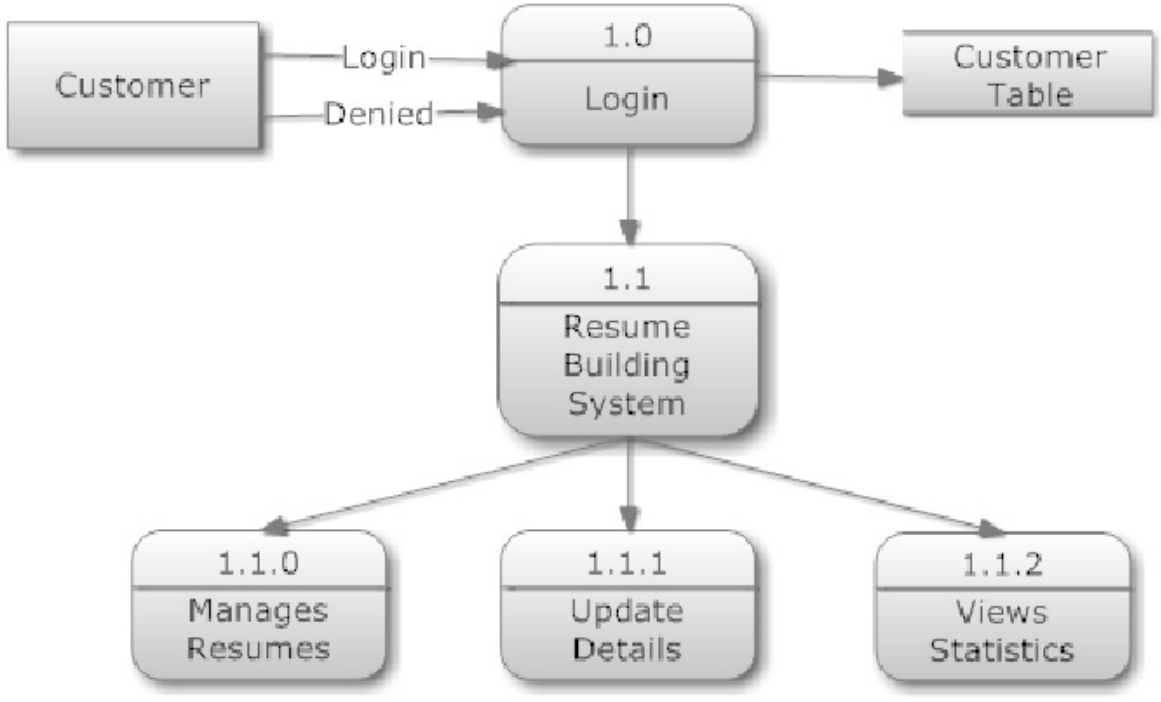
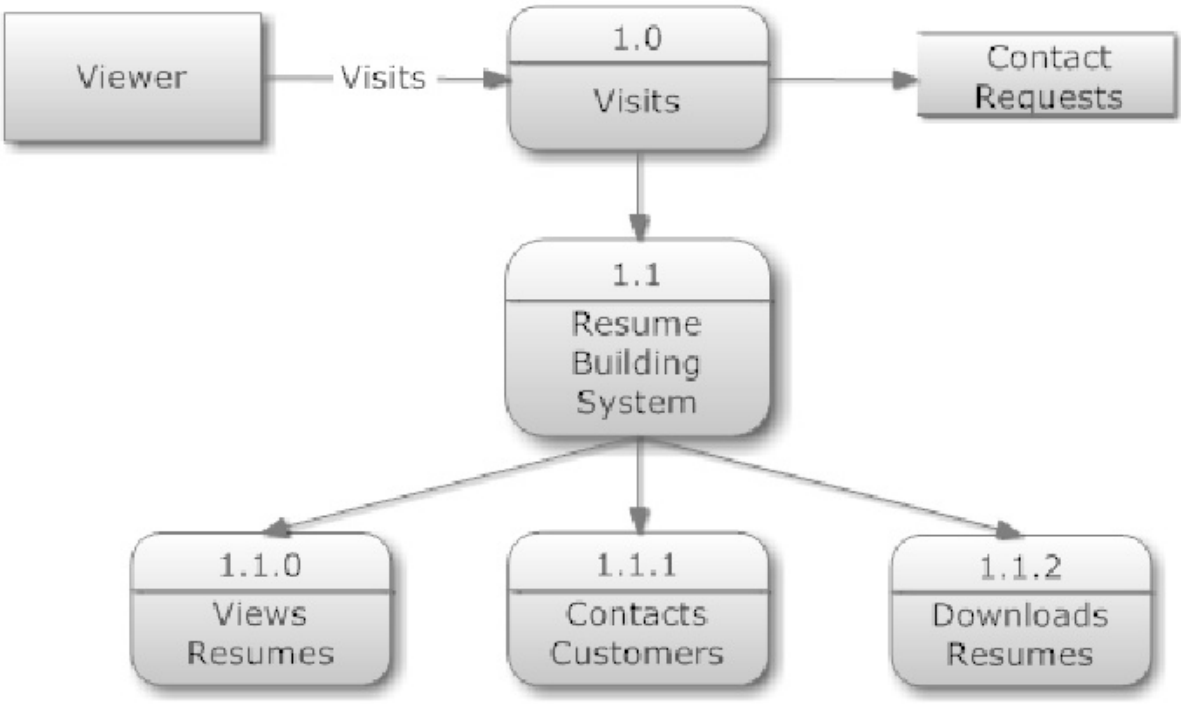


Figure: 1 Level Data Flow Diagram







3.6 Use Case Model

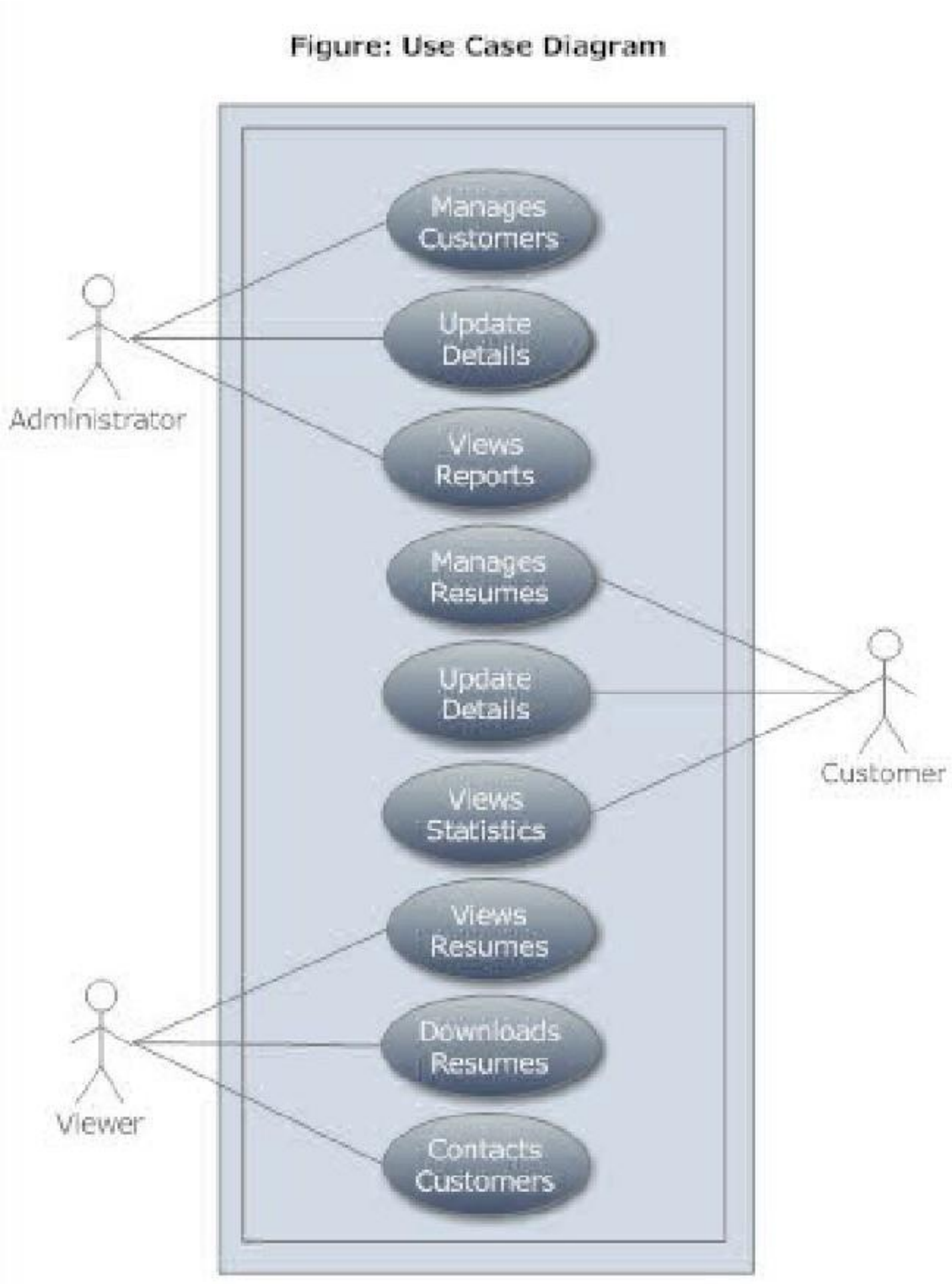
Use Case Model is an approach that is a combination of text and pictures in order to improve the understanding of requirements. A use case model' is describes the completefunctionality of a system by identifying how everything that is
outside the system interacts with it.
A Use Case D agram s given below that re ates to thisapplication.

- Description – This project is a web application thatmanages a system of building

resumes online.

- Actors – It has 3 actors.
  1) Administrator
  2) Customer
  3) Viewer

Figure: Use Case Diagram



- Flow of Events –
  - User logins into the system using ID and password.
  - If user is an authorized user then access is grantedotherwise denied.
  - User selects any tasks to do and task is performed.

- Special Requirements –
  - Data will flow from one user to another.
  - Data generated by one user can't be altered byanother user.
  - One user can't change the status of another user.

- Pre Condition –
  - All customers should have their account created onthe system.

- Post Condition –
  - Details are available to users.
  - Details and information are intact and valid.

3.7 Class Diagram

A class diagram shows relationship among classes used in the system. Every class has some contents, attributes and objects associated with it. Every class produces some outputs and uses some inputs. Outputs generated are consumed by other classes and inputs consumed are generated by other classes. Class diagram shows which class is producing what and consuming what.

Figure: Class Diagram

Profi es	Users	Resume	Contact Requ est
AboutMe	Weblink3	n	RusumeID
Question	Weblink4	Communic	NAME
Answer	Position	ation	PASSWORD
Weblink1	Desired	Acceptable	EMAIL
Weblink2	Relocatio	Travel	PostalCode

Seeking Design Feedback	PERSONAL ACADEMIC CERTIFICATES EXPERIENCE	Resume ID EMAIL ORGANIZATION

CurrentSalary			
DesiredSalary ResumeID updateDetails()	updateDetails() manageResumes() viewsStats()	Update() Delete()	Notify()

4.0 System Design

System design is a solution, a ‘how to’ approach to the creation of a new system. It provides the understanding and procedural details necessary for implementing the system recommended n the feasibi ty study. Emphas s s on translat ng the performance requirements into design specifications. Design goes through logical and physical stages of development. Logical design reviews the present physical system; prepared input and output specifications; details the implementation plan; and prepares a logical design walkthrough. The physical design maps out the details of the physical system, plans the system implementation, devises a test and implementation plan, and specifies any new hardware and software.

4.1 Database Tables

- Users Table

Field Name	Data Type
ID	Varchar
Name	Varchar
Password	Varchar
Emai	Varchar
Phone	Varchar
Address	Varchar

🔎 Resume Table

Field Name	Data Type
Personal Academ c	Varchar
	Varchar

Certificates	Varchar
ExperienceV	Varchar
ews	Integer
Downloads	Integer

Profiles Table

Field Name	Data Type
Question	Varchar
Answer	Varchar
Web nk1	Varchar
Weblink2	Varchar
Web nk3	Varchar
Weblink4	Varchar
PositionDesired Re ocat on	Varchar
Communication	Varchar
AcceptableTravel	Varchar
CurrentSa ary	Varchar
DesiredSa ary	Varchar
ResumeID	Varchar
AboutMe	Varchar

Administrator Table

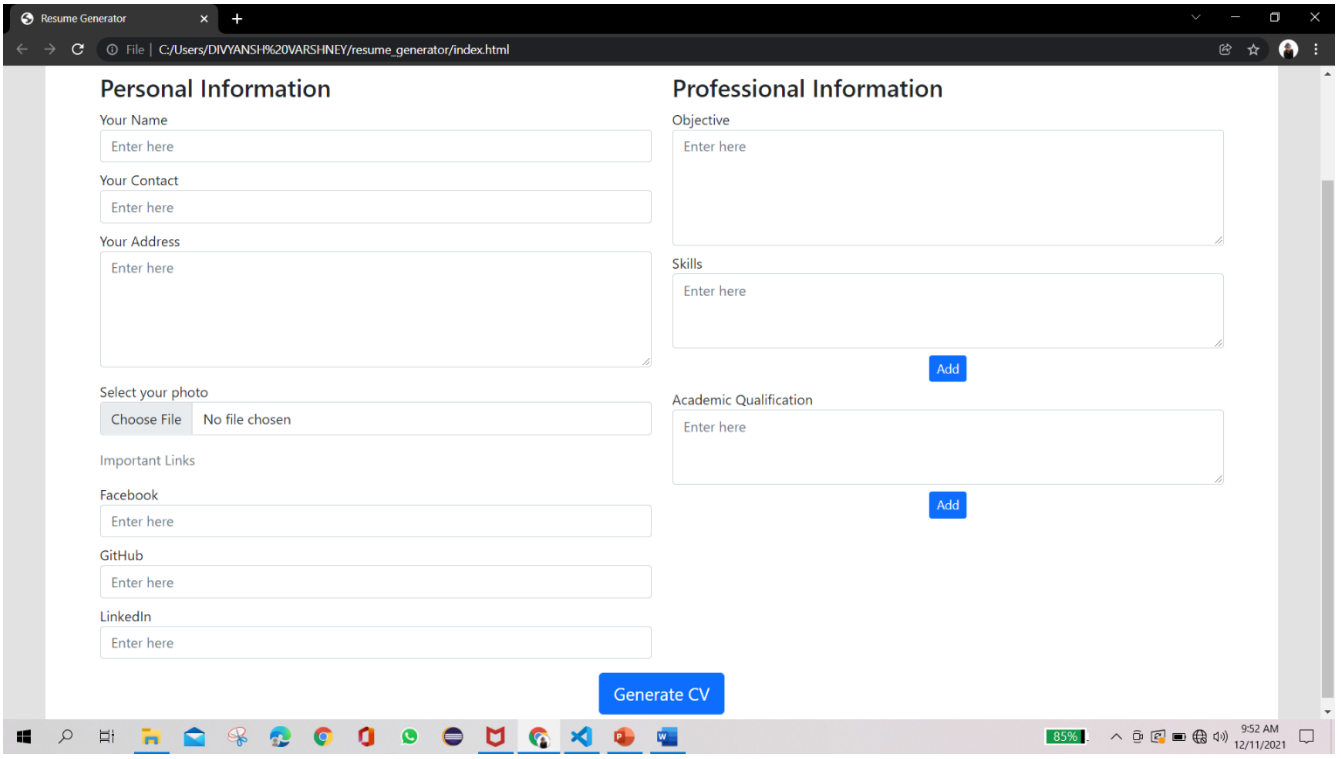
Field Name	Data Type
ID	Varchar
Name	Varchar
Password	Varchar
Ema l	Varchar

Contact_Request Table

Field Name	Data Type
ResumeIDEmail	Varchar
Organ zat on	Varchar
	Varchar

5.0 Test Cases:

Add User Validation:



Conclusion

The project Online Resume Builder is for computerizing the working of building resumes. The software takes care of all the
requirements of the process and is capable to provide easy and effective storage of information related to customers and resumes that come up to the system.
It generates reports for customers & administrators. Provides easy designing tools and other interesting features. The system also provides the facility to contact the customer.

T his system provides online storage/ updates and retrieva facility. This system promises very less or no paper work and also provides help to customers and viewers. In this system
everything is stored electronically so very less amount of paper work is required and information can be retrieved very easily without searching here and there into registers.

7.0 Bibliography

HTML: Complete
Reference
www.w3schools.com
www.emurse.com
Various e-books and tutorials provided on Internet

- www.wikipedia.org
- www.webreference.com
  www.dynamicajax.com
- www.webdesign.org
  www.csstutorial.net
- www.photoshopsupport.com www.learn-sql-tutorial.com
- www.learn-xml-tutorial.com

a)