

A Mini Project Synopsis on
AUTOMATED RESUME BUILDER

S.E. – Computer Science and Engineering-Data Science

Submitted By

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CERTIFICATE

This to certify that the Mini Project report on **AUTOMATED RESUME BUILDER** has been submitted by Mayank Kumar(21107016), Janhavi Kasar(21107030), Sanskruti Chavan(21107047) and Dalbirsingh Matharu(21107005) who are a Bonafede students of A. P. Shah Institute of Technology, Thane, Mumbai, as a partial fulfillment of the requirement for the degree in **Computer Science and Engineering(Data Science)**, during the academic year **2022-2023** in the satisfactory manner as per the curriculum laid down by University of Mumbai.

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Chapter 1

Introduction

As placement season of most of the colleges is going to start, making resume is a very hectic work for all the students. Also, many companies judge the candidature of a student just by his/her resume. So it is necessary for the student to think beyond the third dimension while making the resume.

Automated Resume Builder is the application which helps user to get their resume in hand just by filling up personal, educational and technical information. This application will be used by students looking for internships and placements. As having a resume is compulsory, most of the students will find it very useful.

In many contexts, a resume is typically limited to one or two pages of size A4 or, letter size highlighting only those experiences and qualifications that the author considers most relevant to the desired job seek.

The problem identified while proposing this project is that building a resume is a hectic and time-consuming work for job seeking candidates and so as to find out a proper professional layout so the aim of our project is it provides the user with eye catching and well-structured professional resume layout with instant result. Data is completely secured. Users can set a password and access their resumes at anytime, anywhere.

The scope of the project is:-

- 1) It can be useful for students and job seeking applicants.
- 2) It can be applicable while seeking in internships or placement areas.
- 3) It can be used while introducing skill set and career stories

1.1 Purpose:-

Many have tried making their own resume, but it can be frustrating if you don't know where to start. You can also get a professional resume writer to create one tailored to you, but it will cost money. So the main purpose of this Automated Resume Builder Project is to make it free to use for the user, make it time efficient. The time spent preparing your resume can often be better spent on networking or additional training courses that enhance your job skills. Preparing a resume goes beyond listing your

education, work experience, and skills. You also need a layout that stands out. With a resume builder, the layout and format are created by the software. All you need to do is add your credentials.

Resume builders have vibrant, eye-catching, customizable templates, and they come with various layouts. If the job you are applying for requires out-of-the-box thinking, a creative template with stylish designs might be a good choice.

With an online resume builder, you have all the tools at your fingertips to craft a professional-looking resume that stands out from the rest. It saves time and stress and produces beautiful resumes with a professional design and layout that you can confidently send to all your job prospects.

1.2 Objectives:

The main objectives of the resume builder are to manage the details of resume, jobs, qualification, and skills. It manages all information of jobseeker. The objective of the program is to build an application program to reduce the manual work.

Some of the objectives of the project are as follows:-

- To reduce the thinking of user towards the hectic work of resume, else he or she can focus more on the interview.

To make available the best professional layout which stands out from the crowd.

- To provide the resume in less time as user just needs to fill some information.
- To make you stand out in this competitive world by filling your information in a proper manner and in a more professional way in the layout.

1.3 Scope:-

The scope of the project is:-

This Application will be used by students looking for internships and placements. As having a resume is compulsory, most of the students will find it very useful. It can be useful for job seeking applicants too. It can be applicable while seeking in internships or placement areas. It can also be useful while introducing skill set and career stories. The application simplifies the task of creating a resume for individuals.

The system is flexible to be used and reduces the need of thinking and designing an appropriate resume according to qualifications. The system is developed to provide an easy means for creating a professional looking resume. Individuals just have to fill up a form that specifies questions from all required fields such as personal questions, educational, qualities, interest, skills and so on. The answers provided by the users are stored and the system automatically generates a well-structured resume. There are choices available for resume format for users as per their qualification and requirements.

Data is completely secured. Users can set a password and access their resumes at anytime, anywhere. The system saves time and reduces human efforts.

Chapter 2

Problem Definition

On an average, a hiring manager spends very less time on a resume to decide whether it should make it to the second round. Many a time, it is not always because of the recruiter's loss of interest. Rather, they cannot afford to spend more time on each resume when they have hundreds of applications to review. So, to build the eye catching and professional layout can land you to your dream job.

Poor formatting is one of the first things employers notice when looking at your resume. It can reflect badly on you, as it looks like you don't pay close attention to detail. Standard resume format helps us highlight the more important sections of our resume according to our credentials.

What to include in your resume is the main thing to identify while going through resume building process. The goal of your resume is to quickly help employers learn who you are and whether your skills and experiences match the position you are applying for. Also including all the personal details required for resume is mandatory.

Thus, building a resume is a hectic work for all the candidates. Also it takes very much time as we have to include all the personal and professional information. Instead of consuming your valuable time in resume building process you have to focus on your interview. So the aim of 'The Automated Resume Builder' is to help you to overcome these problems and hand you a proper professional layout of your resume which includes the necessary information in a very systematic way.

Chapter 3

Proposed System

This proposed system of automated resume builder consists of mainly two modules the admin module and the user module. The admin module of the system saves the data of the user, makes the template and lets the user download the template. The user module lets the user enter the details to be included in the resume template. This system would be very useful to the users applying towards their higher education or job of their dreams. There are many features that make the system a useful domain. The main purpose of resume builder is to provide the user with a professional template to help them achieve their goals.

3.1 Features and Functionality:-

The features and functionality of the system are as follows:-

- **Manages all information:-**
The system manages the information and integration of all records of technical skills and education qualifications.
- **Provides easy interface:-**
It provides with easy to use interface and has a highly customizable and professional template.
- **Affordable:-**
The resume template provided is free of cost without taking a single penny for your information efforts.
- **Easy availability:-**
With this online resume builder, you have all the tools at your fingertips to craft a professional-looking resume that stands out from the rest.
- **Saves time and reduces stress:-**
It saves time and stress and produces beautiful resumes with a professional design and layout that you can confidently send to all your job prospects.
- **Boost writer's confidence:-**
Using this online resume builder, it delivers a great confidence boost since you can move forward knowing you have a professionally formatted resume that stands a very good chance of impressing recruiters and hiring managers.

- Highlights important fields:-
A resume builder gives your potential employer a feel for your past experience and skills. Highlighting the points where you stand different from your fellow competitors.
- Gives correct sentence formation:-
It Eliminates fear related to the task of writing a resume and beating writer's block allows you to get on with the business of landing your dream job.
- Easy to access and download:-
The resume can be downloaded in editable format so it can be edited later by the user.

Chapter 4

Project Outcomes

Project outcomes are the changes that occur as a result of your actions. These typically involve improvements for a product or service. When designing a project, it's important to know what your project outcomes are so you have a way of measuring your success and understand what your overall goal is. They are also valuable for businesses because they help create deliverables to meet their purpose and goal.

The major outcomes of the system automated resume builder are as follows:

- Easily editable
Editing, adding and updating of records is improved which results in proper resource management of resume data
- Saves human efforts and time
Helps the user to reduce their thinking power and efforts hence indirectly saving their time.
- Smooth management of skills
Highlights and focuses up on the users major technical, on field, communication and personal skills so as to spotlight him her in the crowd

Chapter 5

Software Requirements

Software Requirement Specification (SRS) Format as name suggests, is complete specification and description of requirements of software that needs to be fulfilled for successful development of software system. These requirements can be functional as well as non-functional depending upon type of requirement. This is description of features and functionalities of the target system. Requirements convey the expectations of users from the software product. It is the responsibility of system analyst to document the requirements in technical language so that they can be comprehended and useful by the software development team.

The software and technology stacked used in development of an automated resume builder are:-

- The JDK includes tools useful for developing and testing programs written in the Java programming language and running on the Java platform.
- Java jdk version-18.0.2.1
- NetBeans = Network + Java Beans
NetBeans is an integrated development environment (IDE) for Java.
Netbeans IDE version-14
- MySQL is a Database Management System
MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corporation.
MySQL version-14
- Database Done in MySQL
- Front End: Netbeans IDE
- Back-End: MySQL

Chapter 6

Project Design

Design is the first step in the development phase for any engineering product (or) system. It may be defined as “the process of applying various techniques and principles for the purpose of defining a device, a process, or a system insufficient detail to permit its physical realization”. Software design is an iterative process through which requirements are translated into a ‘Blue print’ for constructing the software.

The design is represented at a high level of abstraction, a level that can be directly translated to specific data, functional and behavioral requirements. The interface design describes how the software communicates within itself, to systems that interoperate with it, and with humans who use it. An interface implies a flow of information (e.g., data and /pr control). Therefore, the data and control flow diagrams provide the information required for interface design.

Design process is in between the analysis and implementation process. The following design diagrams (data flow diagrams and E-R diagrams) make it easy to understand and implement.

The goal of Database Design is to generate a set of relation schemes that allow us to store information without unnecessary redundancy and allows us to retrieve information easily. We can achieve optimization, ease of use in maintenance by designing the database using relational model between or among the tables.

1) Login Page

This is the very first page of the application. Here the user needs to enter his/her username and password to sign up in the application. If he/she is new then they need to first register and the log up. The system also gives option to reset the credentials.



The image shows a web application login page. At the top, there is a 'Welcome !' message in a box. Below it, the title 'LOGIN PAGE' is displayed in large, bold, black letters. The page has a light gray background with two dark gray vertical bars on the left and right sides. In the top right corner of the right bar, there is a red square button with a white 'X'. The login form consists of two input fields: 'Username:' with the text 'test' and 'Password:' with masked characters '*****'. Below the password field is a checkbox labeled 'VIEW'. At the bottom, there are three buttons: 'REGISTER' (dark gray), 'Login' (dark gray), and 'RESET' (red).

Figure 6.1: Login Page

2) General Details Page

Here in this page of general details the user needs to fill up with his/her normal general details such as name, mobile no, date of birth, address, email, skills etc in the respective field and then proceed to save and continue button to fill the other required fields.

The screenshot shows a web form titled "GENERAL DETAILS" with a dark background and yellow accents. At the top, there are five tabs: "EDUCATIONAL DETAILS UNIVERSITY", "EDUCATIONAL DETAILS SSC / HSC", "PROJECTS / INTERNSHIPS", "EXPERIENCE", and "CONFIRMATION". The "EDUCATIONAL DETAILS UNIVERSITY" tab is active. Below the tabs, there are several input fields: "FIRST NAME", "LAST NAME", "MOBILE NO.", "DATE OF BIRTH", "ADDRESS", "E-MAIL", "HOBBIES", and "SKILLS". Each field has a corresponding label and a text input area. At the bottom right, there is a "SAVE & CONTINUE" button.

Figure 6.2: General Details

3) Confirmation Page

This is the confirmation page which appears before proceeding to the final template format. The user needs to tick the I agree box to proceed further and then he/she needs to select the main purpose of them making the resume are they either applying for job or higher studies. Selecting the required option and user would be able to proceed further to the templates.

The screenshot shows a web form titled "CONFIRMATION" with a dark background and yellow accents. At the top, there is a declaration section with a checkbox and the text: "I AGREE. I hereby declare that all the details mentioned above are in accordance with the truth and fact as per my knowledge and I hold the responsibility for the correctness of the above-mentioned particulars." Below this, there are two options for the purpose of the resume: "Higher Studies and Education Resume is used for a scholarship program , summarize your skills and accomplishments and even to secure volunteer position" and "Job Seeking and Internship Resume is used to apply for posted jobs and it also helps employers for making a recruiting choices . It shows future employer what you have done in the past." At the bottom, there are two buttons: "TEMPLATE 1" and "TEMPLATE 2". Below "TEMPLATE 1" is the text "JOB and INTERNSHIP" and below "TEMPLATE 2" is the text "HIGHER EDUCATION". At the bottom right, there is a "BACK" button.

Figure 6.3: Confirmation Page

4) Template 1- For applying job

This is the template format used while applying for jobs. The user's important details like experience, education details and about all the certifications achieved are lined systematically and arranged up in a professional format.

Name Last Qualification	INTRODUCTION
Phone No : jLabel2 Email : jLabel2 Dat of Birth : jLabel2 Address : jLabel2	EXPERIENCE PROJECT Project Title : Project Description : Technologies Handled : INTERNSHIP Internships Done : Duration :
SKILLS jLabel11	EDUCATION Degree Name : Branch : Batch Year : College Name :
Languages Known jLabel11	CERTIFICATION
Hobbies jLabel11	

Figure 6.4: Template 1

5) Template 2- For higher studies

This is the template format used while applying for higher studies. The user's important details like experience, education details, and internships done and about all the certifications achieved are lined systematically and arranged up in a professional format.

Name Last Qualification	INTRODUCTION
Phone No : jLabel2 Email : jLabel2 Dat of Birth : jLabel2 Address : jLabel2	EDUCATION CGPA: HSC % : jLabel4 SEM VII : jLabel5 SSC % : jLabel4 SEM VIII : jLabel5
SKILLS jLabel11	INTERNSHIP jLabel3 jLabel5
Languages Known jLabel11	PROJECTS jLabel1
Hobbies jLabel11	CERTIFICATIONS jLabel1

Figure 6.5: Template 2

Chapter 7

Project Scheduling

In project management, a schedule is a listing of a project's milestones, activities, and deliverables. Usually dependencies and resources are defined for each task, then start and finish dates are estimated from the resource allocation, budget, task duration, and scheduled events. A schedule is commonly used in the project planning and project portfolio management parts of project management. The development and maintenance of the project schedule is the responsibility of a full-time scheduler or team of schedulers, depending on the size and the scope of the project.

The project schedule is a calendar that links the tasks to be done with the resources that will do them. It is the core of the project plan used to show the organization how the work will be done, commit people to the project, determine resource needs, and used as a kind of checklist to make sure that every task necessary is performed.

A Gantt chart is a type of bar chart that illustrates a project schedule. Modern Gantt charts also show the dependency relationships between activities and the current schedule status. This chart lists the tasks to be performed on the vertical axis, and time intervals on the horizontal axis. The width of the horizontal bars in the graph shows the duration of each activity.

Gantt charts illustrate the start and finish dates of the terminal elements and summary elements of a project. Terminal elements and summary elements constitute the work breakdown structure of the project. Modern Gantt charts also show the dependency (i.e., precedence network) relationships between activities. Gantt charts can be used to show current schedule status using percent-complete shadings.

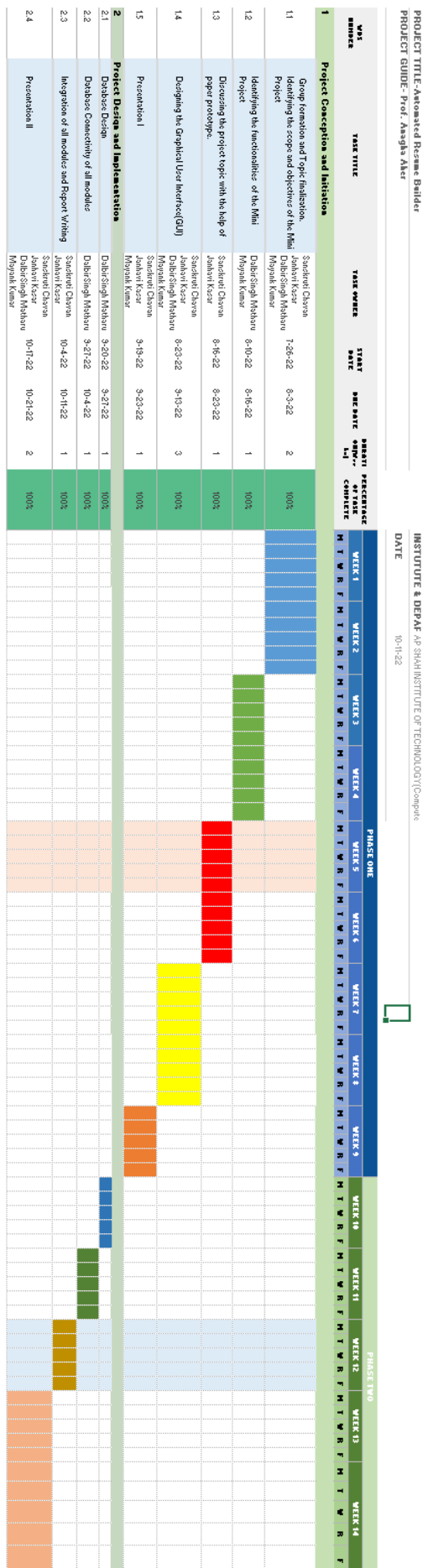


Figure 7.1: Gantt chart

Here in the figures 7.1 the rows of the chart contains the task titles such as the project conception and initialization as well as the project design and implementation which in subdivision contains the group formation, topic finalizing, prototype, GUI designing, backend implementation etc. The columns contains the duration of the task completed, percentage of work completed, number of weeks required to complete a particular task, the specific dates, the team members who contributed towards the completion of task.

The detailed explanation of the gantt chart is as explained below:-

The major task of project conception and initiation was executed by the July month end around 26/07/2022. The task of initiation included many more sub tasks such as the group formation and topic finalization which was performed during the 1st week of project initialization (26/07/2022-30/07/2022). The group formed included 4 members Mayank Kumar, Sanskruti Chavan, Janhavi Kasar, Dalbirsingh Matharu and the finalized topic was An Automated Resume Builder. Further the upcoming weeks (26/07/2022-03/08/2022) led to the task of identifying the scope and objectives of the mini project.

The next sub task was to identify the functionalities of the project which was done by the two members DalbirSingh Matharu and Mayank Kumar in a span of one week from 10/08/2022 to 16/08/2022.

The discussing of the project topic with the help of paper prototype was carried out by Sanskruti Chavan and Janhavi Kasar in the next one week from 16/08/2022 to 23/08/2022.

The next main task of Graphical User Interface (GUI) designing was completed with equal contribution from all the group members within 3 weeks from 23/08/2022 to 13/09/2022.

The next 1 week from 19/09/2022 to 23/09/2022 the members worked on the preparation of presentation I.

The next major task was of project designing and implementation. It took in all 5 weeks to complete the final implementation. The database Design and connectivity of all modules was done by Dalbirsingh Matharu during the course time of 3 weeks from 20/09/2022 to 11/10/2022.

The integration of all modules and report writing was completed by Sanskruti Chavan and Janhavi Kasar during 4/10/2022 to 11/10/2022.

The preparation of final presentation II work was equally shared by all the group members in the time of 2 weeks from 17/10/2022 to 21/10/2022.

Chapter 8

Conclusion

The Automated Resume Builder is one of the most fantastic systems for the people who are either fresher's in their domain or if they don't have enough idea about the resume or don't have enough time to create the resume of good designs or patterns, then this platform is a very productive place for them. It saves a lot of time and cost-effective.

The system is developed to provide an easy means for creating a professional looking resume. Individuals just have to fill up a form that specifies questions from all required fields such as personal questions, educational, qualities, interest, skills and so on. The answers provided by the users are stored and the system automatically generates a well-structured resume.

Development of a future rich resume builder application can be used for fresher and experienced candidates. Students can apply for the resume and to get the details and to print the resumes in proper format.