

# **“RESUME BUILDER”**

*A*

*Project Report*

*submitted*

*in partial fulfillment*

*for the award of the Degree of*

*Bachelor of Technology*

*in Department of Information Technology*



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Rajasthan Technical University, Kota  
Session 2024-2025**

**Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur  
Department of Information Technology**

**CERTIFICATE**

This is to certify that Mr. Aditya Singh, a student of B.Tech(Information Technology )VIII semester has submitted his Project Report entitled "Resume Builder" under my guidance.

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## **DECLARATION**

We hereby declare that the report of the project entitled **Resume Builder** is a record of an original work done by us at Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur under the mentorship of **Mrs. Richa Rawal** (Dept. of Information Technology) and coordination of **Mrs. Priyanka Yadav** (Dept.of Information Technology). This project report has been submitted as the proof of original work for the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology (B.Tech) in the Department of Information Technology. It has not been submitted anywhere else, under any other program to the best of our knowledge and belief.

### **Team Members**

Aditya Singh, 21ESKTI008

Arnav Sharma, 21ESKTI021

Avantika Bansal, 21ESKIT025

### **Signature**

## Acknowledgement

A project of such a vast coverage cannot be realized without help from numerous sources and people in the organization. We take this opportunity to express our gratitude to all those who have been helping us in making this project successful.

We are highly indebted to our faculty mentor **Dr. Richa Rawal**. She has been a guide, motivator source of inspiration for us to carry out the necessary proceedings for the project to be completed successfully. We also thank our project coordinator **Dr. Priyanka Yadav** for her co-operation, encouragement, valuable suggestions and critical remarks that galvanized our efforts in the right direction.

We would also like to convey our sincere thanks to **Dr.(Prof.) Anil Chaudhary**, HOD, Department of Information Technology, for facilitating, motivating and supporting us during each phase of development of the project. Also, we pay our sincere gratitude to all the Faculty Members of Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur and all our Colleagues for their co-operation and support.

Last but not least we would like to thank all those who have directly or indirectly helped and cooperated in accomplishing this project.

### **Team Members:**

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# **Chapter 1**

## **Introduction**

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### **1.1 Problem Statement and Objective**

A problem statement is a useful communication tool, as it keeps the whole team on track and tells them why the project is important. A problem statement helps someone to define and understand the problem, identify the goals of the project, and outline the scope of work. A problem statement is a useful communication tool, as it keeps the whole team on track and tells them why the project is important. A problem statement helps someone to define and understand the problem, identify the goals of the project, and outline the scope of work.

### **1.2 Literature Survey /Market Survey/Investigation and Analysis**

Several online resume builders exist, such as Canva, Zety, and Novoresume. These tools often require premium subscriptions for full features. Research indicates users value simplicity, free access, and export options. Our investigation shows a gap for lightweight, free tools that allow real-time editing, section customization, and integration with job portals.

### **1.3 Introduction to Project**

The Resume Builder is a web-based application that assists users in creating personalized resumes by inputting data through forms. It dynamically generates resumes using pre-designed templates, allowing users to download or print them. It is built using HTML, CSS, JavaScript (for frontend), and optionally a backend stack (Node.js or Flask) for user authentication and storage.

## **1.4 Proposed Logic / Algorithm / Business Plan / Solution / Device**

The logic involves form-driven data collection, template mapping, and real-time preview generation. The business plan may include a freemium model, offering core features for free and premium templates for a fee. Backend logic includes session management, data validation, and PDF generation using libraries like jsPDF.

## **1.5 Scope of the Project**

The Resume Builder is designed for job seekers, students, and professionals across industries. It supports multiple resume formats, real-time customization, and export features. Future enhancements may include AI-driven suggestions, grammar checks, and integration with LinkedIn.

# **Chapter 2**

## **Software Requirement Specification**

---

### **2.1 Overall Description**

The Resume Builder functions as a form-driven application that allows users to input their personal, educational, and professional information, choose from various resume templates, preview the formatted resume in real-time, and download it in PDF format. It is intended to be lightweight and user-friendly, ensuring accessibility across different platforms and devices. The system is built using front-end technologies and may optionally be extended to include backend services for authentication and data storage. This document details how the product interacts with users, the technical environment it operates in, and any limitations or dependencies involved.

#### **2.1.1 Product Perspective**

The Resume Builder is envisioned as a standalone application that does not rely heavily on external systems, although it may optionally integrate with cloud-based services or APIs for user authentication and data persistence. It leverages client-side technologies for most of its operations, including rendering templates and exporting resumes. As a modern web application, it is designed to provide a seamless and responsive experience on both desktop and mobile browsers.

##### **2.1.1.1 System Interfaces**

While the core version of the Resume Builder does not require complex system interfaces, it can optionally connect with backend services like Firebase or a RESTful API to store user data and resume history. It also integrates with third-party libraries for PDF generation and may

use authentication APIs.

#### **2.1.1.2 User Interfaces**

The application offers a clean and intuitive interface, where users navigate through input forms categorized by sections such as personal information, education, work experience, projects, and skills. A preview panel displays the resume in real time, allowing users to make instant modifications. The interface also includes options for selecting templates, changing layouts, and downloading the completed resume.

#### **2.1.1.3 Hardware Interfaces**

No special hardware is required to operate the system. It is accessible from any device that supports a modern web browser, including desktops, laptops, tablets, and smartphones. The performance is optimized for typical consumer hardware and does not rely on any specialized input/output devices.

#### **2.1.1.4 Software Interfaces**

The system is built using frontend web technologies such as HTML, CSS, and JavaScript. Frameworks like React may be used for building dynamic and modular components. PDF export functionality is implemented through JavaScript libraries such as jsPDF or html2pdf.js. Optionally, backend frameworks like Node.js or Flask may be integrated for server-side operations.

### **2.1.1.5 Communications Interfaces**

All interactions between the frontend and any backend services are conducted over HTTP or HTTPS. If user authentication or data saving features are enabled, the system communicates with the server through RESTful APIs. In the case of serverless deployments, Firebase can be used for both authentication and real-time database storage.

### **2.1.1.6 Memory Constraints**

The application has minimal memory requirements. Most data is temporarily stored on the client-side using browser storage mechanisms such as localStorage or sessionStorage. If backend integration is used, resume data may also be saved in a lightweight cloud database.

### **2.1.1.7 Operations**

Users begin by entering their resume details through categorized input forms. As they enter information, the resume preview is updated in real time using the selected template. Once satisfied, users can export the resume as a PDF file. The operation is straightforward and does not require any technical expertise from the user.

### **2.1.1.8 Project Functions**

The primary functions of the Resume Builder include capturing user input for various resume sections, generating a formatted preview, allowing users to switch between templates, and exporting the final resume as a downloadable PDF file. Advanced versions of the applica-

tion may support login, data saving, and editing previous resumes.

#### **2.1.1.9 User Characteristics**

The application is targeted toward job seekers, students, and professionals who may not have technical or design skills. Users are expected to be comfortable using a browser, navigating web forms, and interacting with basic web elements. The interface is designed to be accessible and easy to understand for all user demographics.

#### **2.1.1.10 Constraints**

The main constraints include the requirement of a stable internet connection and a modern web browser for full functionality. The application may not perform optimally on outdated or unsupported browsers. Additionally, real-time PDF generation may be resource-intensive on low-powered mobile devices.

#### **2.1.1.11 Assumption and Dependencies**

It is assumed that users will access the system using up-to-date browsers such as Chrome, Firefox, Safari, or Edge. The functionality of the application depends on the proper operation of third-party libraries used for rendering and exporting content. If backend services are used, the availability and reliability of cloud platforms like Firebase or hosting servers are also critical to performance.

# **Chapter 3**

## **System Design Specification**

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The System Design Specification outlines the architectural layout and structural decomposition of the Resume Builder project. It serves as a blueprint that guides the development process, ensuring that the components of the system are logically organized and effectively communicate with each other. This chapter elaborates on the system architecture, individual modules, and the high-level design diagrams, which help visualize the system's functionality and workflow.

### **3.1 System Architecture**

The architecture of the Resume Builder follows a modular, layered structure with clear separation of concerns. At the core is the presentation layer, which consists of the user interface built using HTML, CSS, and JavaScript or React. This layer handles user input and real-time resume preview rendering. If backend functionality is integrated, such as user authentication or data storage, the application communicates with the server-side logic through RESTful APIs. The server may be built using frameworks like Node.js or Flask and connected to a database such as Firebase or MongoDB. PDF generation is handled on the client side using libraries like jsPDF, ensuring responsiveness and offline capability. The architectural approach ensures flexibility, scalability, and ease of maintenance.

## **3.2 Module Decomposition Description**

The system is divided into several functional modules, each responsible for a distinct part of the application. The first module is the User Input Module, which includes forms for collecting personal information, education details, work experience, skills, and projects. The Template Rendering Module dynamically converts the user's input into a formatted resume layout using predefined CSS templates. The Preview Module provides real-time visualization of the resume as it is being created. The Export Module enables the user to download the resume in PDF format. If login and storage features are added, there is also a User Management Module for handling registration, login, and saving user data. These modules work cohesively to deliver an efficient user experience.

## **3.3 High Level Design Diagrams**

To better understand the flow and interactions within the system, several high-level design diagrams are used, each offering a different perspective on the system's structure and behavior.

### 3.3.1 Use Case Diagram

Figure 3.1: Use Case diagram

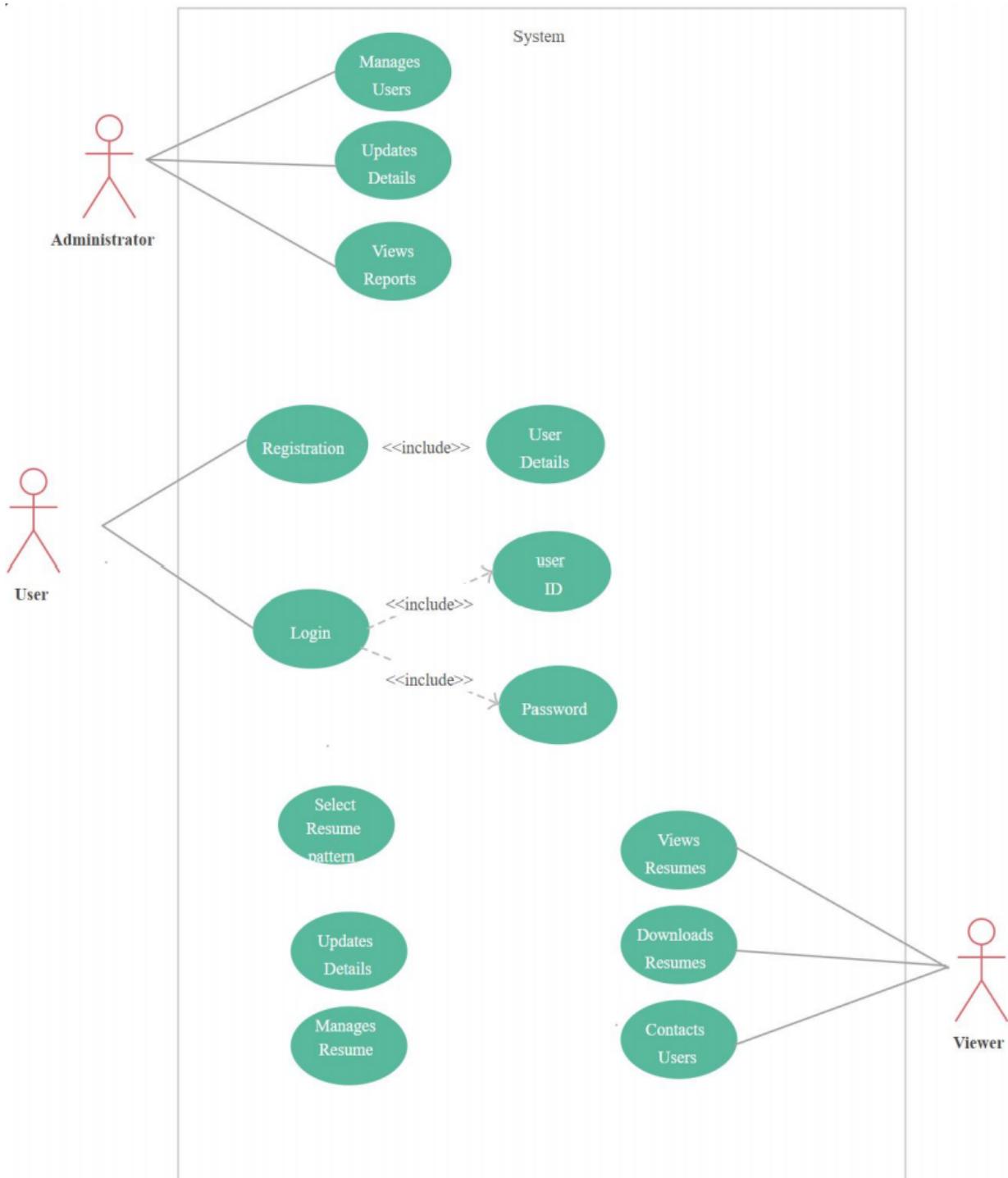


Figure 3.2: UseCase Diagram

### 3.3.2 Activity Diagram

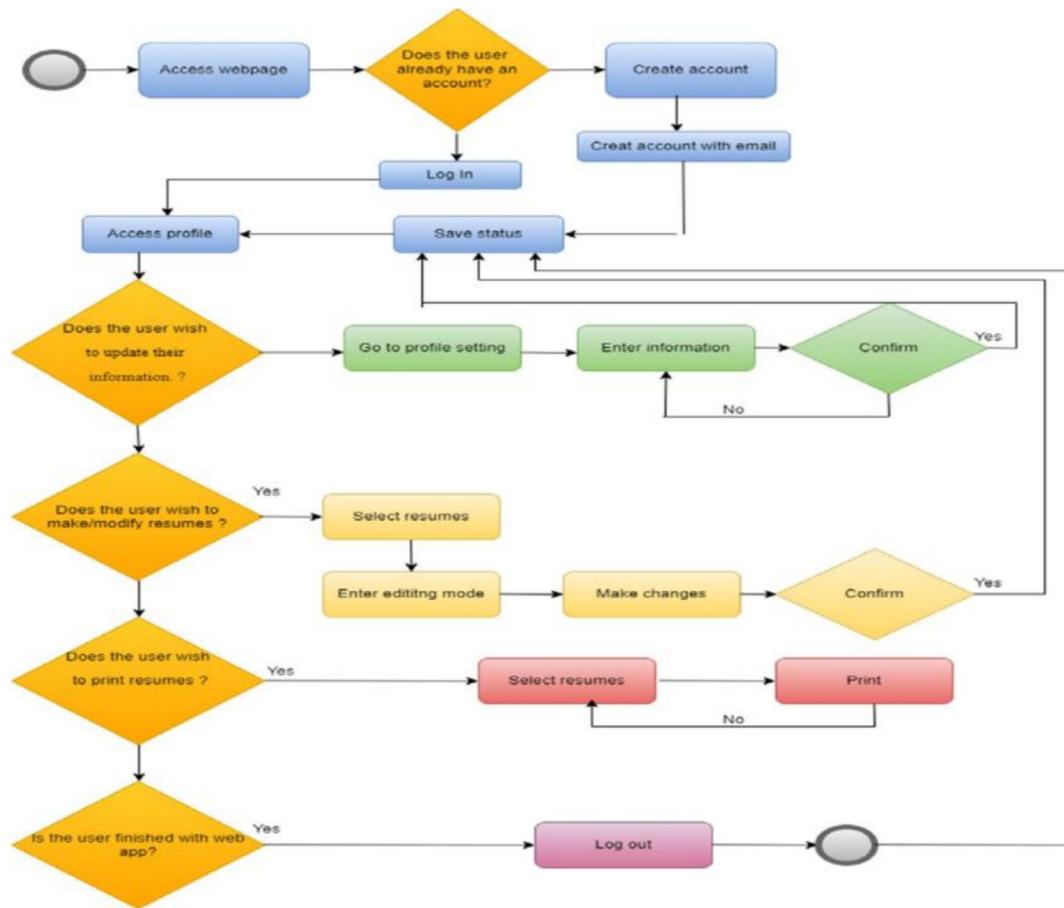


Figure 3.3: Activity Diagram

### 3.3.3 Data-Flow Diagram

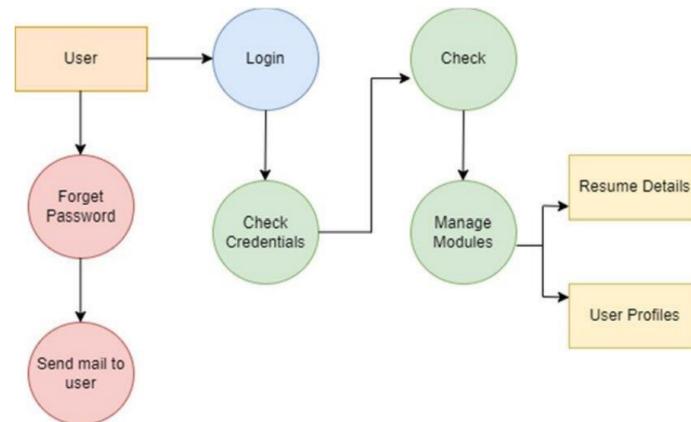


Figure 3.4: Data Flow Diagram

### 3.3.4 Class Diagram

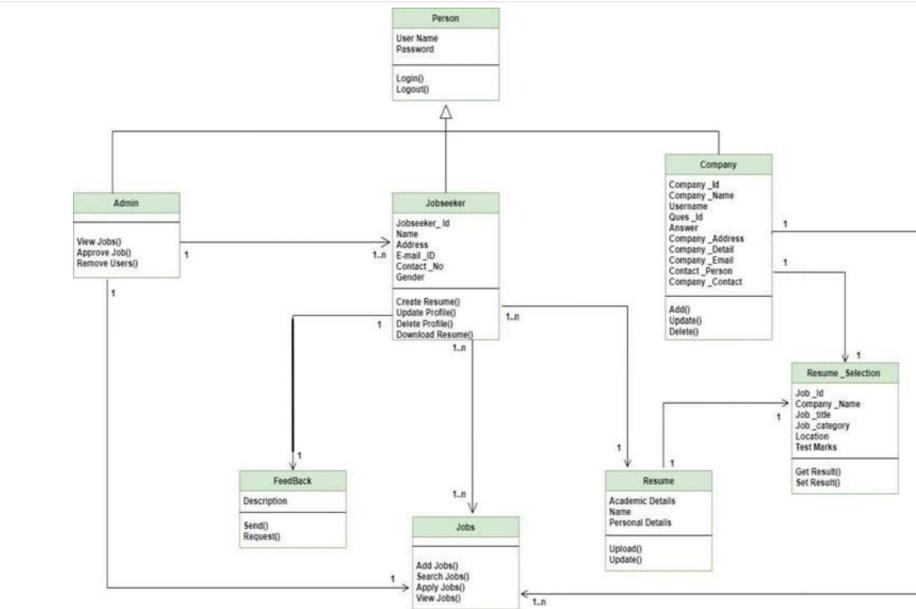


Figure 3.5: Class Diagram

# Chapter 4

## Methodology and Team

### 4.1 Introduction to Waterfall Framework

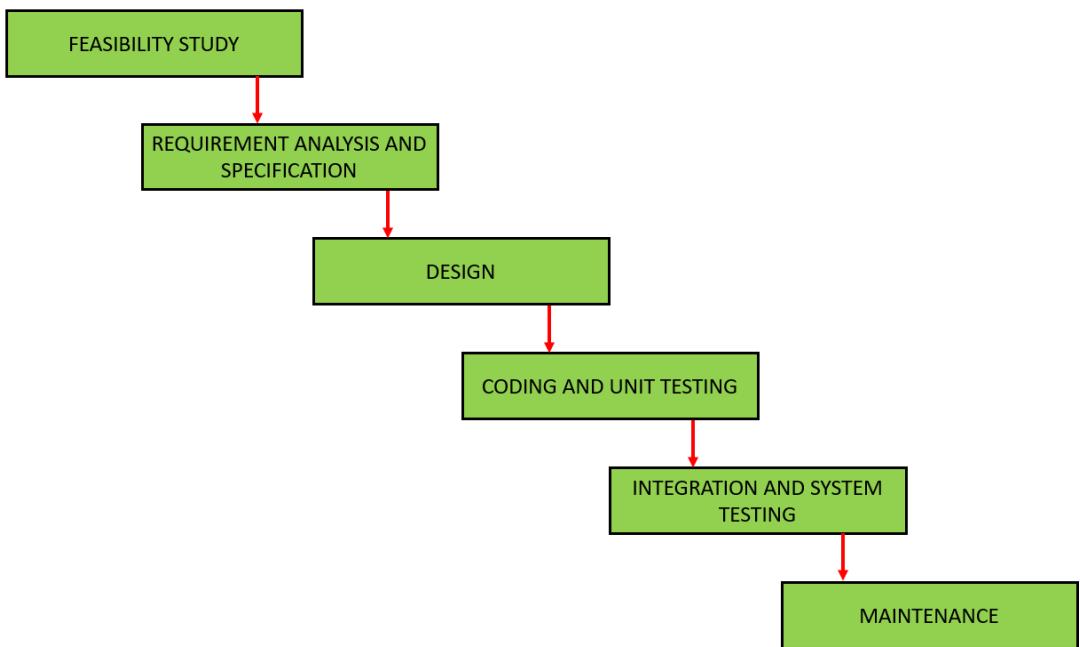


Figure 4.1: WaterFall model

The sequential phases in Waterfall model are-

1. **Requirement Gathering and analysis:** All possible requirements of the system to be developed are captured in this phase and documented in a requirement specification doc.
2. **System Design:** The requirement specifications from first phase are studied in this phase and system design is prepared. System

Design helps in specifying hardware and system requirements and also helps in defining overall system architecture.

3. **Implementation:** With inputs from system design, the system is first developed in small programs called units, which are integrated in the next phase. Each unit is developed and tested for its functionality which is referred to as Unit Testing.
4. **Integration and Testing:** All the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures.
5. **Deployment of system:** All the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures.
6. **Maintenance:** All the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures.

All these phases are cascaded to each other in which progress is seen as flowing steadily downwards (like a waterfall) through the phases. The next phase is started only after the defined set of goals are achieved for previous phase and it is signed off, so the name "Waterfall Model". In this model phases do not overlap.

## **Waterfall Model Pros & Cons**

**Advantage** The advantage of waterfall development is that it allows for departmentalization and control. A schedule can be set with deadlines for each stage of development and a product can proceed through the development process model phases one by one. Development moves from concept, through design, implementation, testing, installation, troubleshooting, and ends up at operation and maintenance. Each phase of development proceeds in strict order.

**Disadvantage** The disadvantage of waterfall development is that it does not allow for much reflection or revision. Once an application is in the testing stage, it is very difficult to go back and change something that was not well-documented or thought upon in the concept stage.

## **4.2 Team Members, Roles & Responsibilities**

**Aditya Singh** - took on the role of the Frontend Developer and UI/UX Designer. This member was primarily responsible for designing the user interface of the application, including the layout of input forms, selection of resume templates, and ensuring responsive design across devices. They also implemented interactive features using HTML, CSS, and JavaScript (or React) and focused on creating a clean and intuitive user experience. Real-time preview functionality and template switching logic were key contributions from this member.

**Arnav Sharma** - served as the Backend Developer and Integration Lead. This member handled the optional backend features such as

user authentication, resume data storage, and cloud database integration using Firebase or a RESTful API. They were also responsible for connecting the frontend with the backend, ensuring secure and smooth data flow. In addition, this member handled PDF export functionality and any third-party library integrations required for rendering and downloading resumes.

**Avantika Bansal** - This member managed overall project coordination, set timelines, tracked progress, and ensured that each development phase followed the Waterfall model. They also led the testing efforts, conducting functional, usability, and performance tests on various devices and browsers. Their responsibility included documenting test cases, identifying bugs, and verifying that the system met all specified requirements before deployment.

# **Chapter 5**

## **Centering System Testing**

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System testing is a critical phase in the development lifecycle that ensures the Resume Builder application functions as expected under real-world conditions. The primary objective of this stage was to validate the application's features, performance, and usability against the initial requirements defined during the planning phase. Thorough testing was conducted after the implementation phase to detect and fix any errors, ensuring a smooth and reliable user experience. The testing process was led by the Project Coordinator and Testing Engineer, with support from the entire development team.

### **5.1 Functionality Testing**

Functionality testing verified that all features of the Resume Builder worked exactly as intended, without errors or inconsistencies. This included input validation across all form fields—such as name, contact information, education, work experience, skills, and projects—to ensure only appropriate data types and formats were accepted. We tested the dynamic updating of resume previews, where any change in input was instantly reflected in the resume layout. Each template selection was evaluated to confirm that data mapped correctly to different design styles without breaking the layout. Further, the PDF export functionality was tested for completeness and formatting, ensuring all input

fields were properly rendered in the final downloadable file.

To account for negative testing, scenarios such as submitting empty fields, entering invalid email formats, or exceeding character limits in certain sections were also included. The system displayed appropriate error messages and did not crash or behave unexpectedly during these tests. For multi-section navigation, we confirmed that the system correctly stored input as users moved between sections and that changes were not lost upon switching templates. Overall, functionality testing validated that all components operated reliably and consistently across expected and edge-case scenarios.

## 5.2 Performance Testing

Performance testing was conducted to examine the application's efficiency and scalability under different load conditions. This involved checking how quickly the system responded to user actions, such as typing into input fields, switching between templates, and exporting resumes to PDF. The real-time preview feature was a performance-sensitive component, and its responsiveness was evaluated on both high-end and low-end devices. The system maintained smooth rendering without lag or delay, even as the amount of input data increased.

We also tested how the system performed across various web browsers (Chrome, Firefox, Edge) and platforms (Windows, Android, iOS). The Resume Builder maintained consistent performance with minor variations in load times, all within acceptable limits. Additionally, memory usage was monitored, especially during preview rendering and PDF

generation, to ensure the application remained lightweight and did not consume excessive system resources. The results showed that the application could efficiently handle typical user loads without degrading performance, which is crucial for providing a responsive user experience.

### **5.3 Usability Testing**

Usability testing focused on how easy and intuitive the application was for end-users. To perform this, we invited several test users from different backgrounds—including students with minimal technical knowledge—to use the application without prior instructions. They were asked to complete a resume from start to finish, and we observed their behavior, noting areas where they encountered confusion or needed assistance. Feedback was gathered through both observation and post-use surveys.

Based on their responses, several enhancements were implemented. For instance, placeholder examples were added in form fields (e.g., sample job titles or university names) to guide input. Button placements and section headers were adjusted for better visibility and logical flow. On mobile devices, adjustments were made to optimize touch response and ensure that form fields did not appear too small or cramped.

Furthermore, the process of selecting and previewing resume templates was refined to be smoother and more interactive. These improvements significantly enhanced the usability and accessibility of

the application. The overall feedback from users was positive, with most appreciating the simplicity of the design and the quality of the generated resumes.

# **Chapter 6**

## **Test Execution Summary**

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The Test Execution Summary serves as a comprehensive overview of the entire testing process, from the initial test case design to the execution and final results. It includes a summary of the tests conducted, the issues encountered, and how they were addressed. This phase was crucial in confirming that the Resume Builder application was functioning as intended and met the quality standards set forth during the project's planning stages.

### **6.1 Test Planning and Execution**

The testing process began with the design of test cases based on the requirements and functionality outlined in earlier phases. These test cases were divided into functional, performance, and usability categories to ensure thorough coverage of the system's features. The testing team prioritized functional tests to validate the core components, such as input validation, template rendering, and PDF export. Following this, performance tests were executed to assess the system's responsiveness and stability under load. Lastly, usability testing was conducted with actual users to measure ease of use and gather feedback.

## **6.2 Results Overview**

Throughout the execution of test cases, the team recorded the results of each test in a test log, indicating whether the test was Passed, Failed, or Blocked. The majority of tests passed successfully, confirming that the system met the primary requirements. However, a few issues were identified during the testing process. These included minor layout discrepancies in certain resume templates, such as inconsistent font sizes or spacing issues when switching between templates. These issues were promptly addressed by the frontend developer, who modified the CSS to ensure uniformity.

Additionally, performance bottlenecks were identified when processing resumes with large datasets. Although the Resume Builder functioned well with typical resume content, it showed a slight delay when users filled in lengthy details or added multiple sections. The backend developer optimized the code and reduced the complexity of the real-time preview feature, improving the response time significantly.

## **6.3 Regression Testing**

After addressing the bugs and issues identified during the initial round of testing, regression testing was performed to ensure that the fixes did not introduce new problems elsewhere in the system. The team ran the same set of tests, as well as some additional tests that focused on the newly optimized sections of the code. The regression testing confirmed that no new issues had been introduced, and the ap-

plication continued to meet its performance and functionality goals.

## 6.4 Test Coverage

The test coverage was extensive, covering all aspects of the Resume Builder. The functionality tests validated user inputs, data rendering, template selection, and PDF generation. The performance tests focused on load times, resource usage, and response times across different devices and browsers, ensuring the system remained stable even with multiple users or complex inputs. Lastly, usability testing focused on real user interactions, measuring ease of use and ensuring the user interface was intuitive and accessible to people with varying levels of technical expertise.

## 6.5 Bug Fixes and Enhancements

Based on the feedback gathered from functionality and usability testing, several enhancements were made to the system. The input validation was refined to ensure that any erroneous input was caught early, with helpful error messages displayed to the user. The PDF generation process was optimized to handle larger datasets, reducing the time it took to generate the final output. Additionally, the user interface was improved to make the experience smoother, with adjustments made to button placements, form labels, and template selection flow to improve navigation and reduce user confusion.

## **6.6 Final Assessment**

After the comprehensive testing phase, the Resume Builder application was deemed ready for deployment. The successful execution of tests, the resolution of bugs, and the improvements made based on user feedback confirmed the application's reliability and user-friendliness. The test execution also ensured that the application could scale well under realistic conditions, making it suitable for release to a broader audience.

In conclusion, the testing phase of the Resume Builder project played a pivotal role in ensuring that the product met its intended functionality, provided a smooth user experience, and was stable under various conditions. All major functional and performance requirements were successfully verified, and the team was able to address all identified issues before finalizing the product.

# Chapter 7

## Project Screen Shots

This chapter provides visual documentation of the Resume Builder application, showcasing its core features, user interface, and workflow. Screenshots serve as tangible proof of the implemented functionalities and help stakeholders, evaluators, or users understand the system's design and user experience without needing to run the application firsthand. Each screenshot captures a key part of the application, from the landing page to the resume download section, reflecting the stages a typical user would go through while creating a resume.

The screenshot displays two resume templates side-by-side. On the left is the template for 'RAKESH MAGAR', a Full Stack Developer. It includes sections for About Me, Experience (MERN stack), Education (Jagannath Barooh College), and Skills (React, Node.js). On the right is the template for 'VICTOR FRANK', a Quality Manager. It includes sections for Summary, Contact (Email, Phone, LinkedIn), Skills (QA Officer, Project Manager), Experience (QA Officer, Project Manager), Languages (English, French, German), and Awards (Certification in ISO 9001, Project Management, Quality Management System). Both resumes feature a header with the title 'Hi, we are Three wheeler. Welcome to our Website' and a call to action 'Select a Resume Template below'.

**RESUME.BUILDER** Home [Details](#)



Your Name  
 City Name  Your Position  
Describe yourself in one line

[LinkedIn](#) [GitHub](#) [Portfolio](#) [Email](#)  
 Contact Number

About Me [+](#)  
Experience [+](#)  
Education [+](#)  
Skills [+](#)

[Preview](#)

## Profile Details ×

Your Name

City Name

Your Position

Describe yourself in one line

Email Address

Contact Number

GitHub Profile

LinkedIn Profile

Your Portfolio Website

Profile Picture

Choose File No file chosen

[Save Changes](#)



## Beck Sparks

Eveniet ab tempor q  
Qui rerum sit voluptate  
Ex impedit ut commo

**Contact:** quwafucawo@mailinator.com | Phone: 91 | LinkedIn: In iste culpa aliquip | GitHub: Fugit eum veritatis | Website: https://www.xapuz.net

**About Me:** Highly motivated and detail-oriented B.Tech student in Information Technology with a strong foundation in data analytics, web development, and research. Adept at leveraging analytical skills to enhance business decision-making and project execution. Seeking an opportunity to apply my skills and contribute effectively to a dynamic organization.

**Experience:** Sit unde accusamus c  
Petersen and Steele Trading • February 2018 - Present  
Eum rerum delectus  
Facilis ad prident

**Education:** Commodo aut aut nonnullam



## VICTOR FRANK

QUALITY MANAGER

**SUMMARY:** Dedicated Quality Management personnel with a 7-years track record of providing outstanding quality standards that are followed in the development, delivery and execution of products and services. Experienced in improving products and procedures by leveraging hands-on inspections, testing methods and data analysis. Applies excellent attention to detail and critical reasoning to successfully conduct regular Quality management system. Excellent communication skill, active listening, organizational talents, physically fit and adaptable with the capability to work in various work environments.

**EXPERIENCE:**

**QA Officer-R&D**  
Berger Paints NY  
Apr 2015 - Present

- 1. Plan, control & ensure the product quality at Dhaka Factory as per standard specification to meet customer desire.
- 2. Check, analyze & monitor production process, batch costing & standard compliance.
- 3. Specify all issues that may or has the potential to affect quality and facilitate credible solutions by analyzing the gathered data.
- 4. Control Raw/Packaging Material quality as per standard specification to confirm final product quality and zero defect in process.
- 5. Keep liaison with connecting units to ensure smooth operation at Dhaka Factory.
- 6. Evaluate the reliability and consistency of product quality through random audit on different processes and output points (Production & Filling Process, RM Issue, RMPM Storage, FG Handling, etc.).
- 7. Establish customer complaint management through monitoring the quality passed batches via Stability Testing & retain samples and take/propose corrective action if required.
- 8. Supervise, monitor, motivate and aware the floor work force in areas like product quality, new product & process, safety factors in order to ensure higher productivity.
- 9. Specify the area of update requirement in Process Manual, Standard Specification based on practical data & submit report to relevant concern.
- 10. Preserve all relevant QA activity documentation including daily basis electronic data input (SAP-ERP) to ensure real data availability for next level user.
- 11. Evaluate & specify the deviation in product/ process with root cause and submit probable solutions for consideration.
- 12. Performs other related duties as assigned by Management.

**Executive, Export Documentation**  
Renata Ltd.  
Dec 2012 - Mar 2015

- 1. Regular communication with country representatives, overseas distributors for product registration and order, stock and on time payment of shipments.

# **Chapter 8**

## **Project Summary and Conclusions**

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### **8.1 Conclusion**

The Resume Builder project was developed with the aim of providing users—especially students and fresh graduates—with a hassle-free tool to create professional, structured, and aesthetically pleasing resumes. The application guides users through step-by-step data entry forms, allows selection from multiple resume templates, offers live previews of their inputs, and generates downloadable PDF resumes that are ready for submission. With a focus on user-friendliness, responsiveness, and efficient layout design, the project delivers a full-stack solution that blends functionality with simplicity.

This project followed a systematic approach based on the Waterfall Model, progressing through stages such as requirement analysis, system design, development, and rigorous testing. During the implementation, frontend technologies (HTML, CSS, JavaScript) were used to ensure a responsive and intuitive interface, while logic for PDF generation and template integration handled dynamic content rendering.

Testing played a vital role in validating the functionality and robustness of the application. Functionality tests, usability checks, and performance evaluations confirmed that the system met all expected cri-

teria and provided a smooth experience even for non-technical users. Any issues discovered during testing were documented, resolved, and retested to maintain system quality.

Team collaboration also contributed significantly to the project's success. With three members working on different components—frontend design, backend logic, and testing—the responsibilities were well distributed, ensuring efficiency and focus. This collaborative development not only improved our technical competencies but also enhanced our project coordination and documentation skills.

The Resume Builder, in its current form, is fully functional and capable of serving real users. It is designed in a modular fashion, which means future enhancements like login systems, AI-based suggestions, or resume storage capabilities can be easily integrated.

# **Chapter 9**

## **Future Scope**

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The current version of the Resume Builder application successfully meets its core objective of helping users create professional resumes efficiently. However, as with any software project, there is significant potential for future enhancements and expansion to increase the platform's utility, scalability, and user experience. The future scope outlines the possible features and improvements that can be integrated to elevate the application into a more advanced, personalized, and intelligent resume-building tool.

One of the most promising directions is the integration of user authentication and cloud storage. By allowing users to register and log in, the system can offer features such as saving draft resumes, editing existing versions, and tracking application history. This would turn the Resume Builder into a long-term career development tool rather than a one-time utility.

Another important area for development is the inclusion of AI-powered suggestions. By leveraging machine learning algorithms, the application can provide users with content suggestions based on job roles, industries, or common best practices. For example, it could recommend action verbs for job descriptions, suggest in-demand skills for certain roles, or even generate resume summaries using AI.

The platform can also be enhanced by introducing a wider variety of templates, including industry-specific designs such as tech, creative, academic, or business-oriented layouts. Support for multiple languages could open the tool to a global audience, helping users from diverse linguistic backgrounds prepare resumes in their native language or the language of their target country.

In terms of performance, integrating backend support with database connectivity would make the application more scalable. This could allow batch processing, analytics for admin use (like tracking most-used templates), and real-time collaboration for resume review between users and mentors or HR professionals.

Lastly, the future version could include integration with job portals or LinkedIn, enabling users to export their resume directly to their job application or professional profile, further streamlining the job-seeking process.

1. AI-Powered Suggestions for skills, summaries, and formatting tips.
2. Industry-Specific and Customizable Templates for different job profiles.
3. Multi-language Support for global accessibility.
4. Database Integration to support real-time data management and analytics.
5. Integration with Job Portals or LinkedIn for direct resume sharing.

6. Mobile App Version for users to build resumes on-the-go.
  1. W3Schools. HTML, CSS, and JavaScript Tutorials.
  2. GeeksforGeeks. Responsive Web Design and Resume Builder Tutorials.
  3. Bootstrap Documentation. Front-End Component Library.
  4. ReactJS Official Documentation (if used). A JavaScript Library for Building User Interfaces.
  5. Canva Novoresume. Modern Resume Design Inspiration Templates.