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Resume Builder

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ABSTRACT

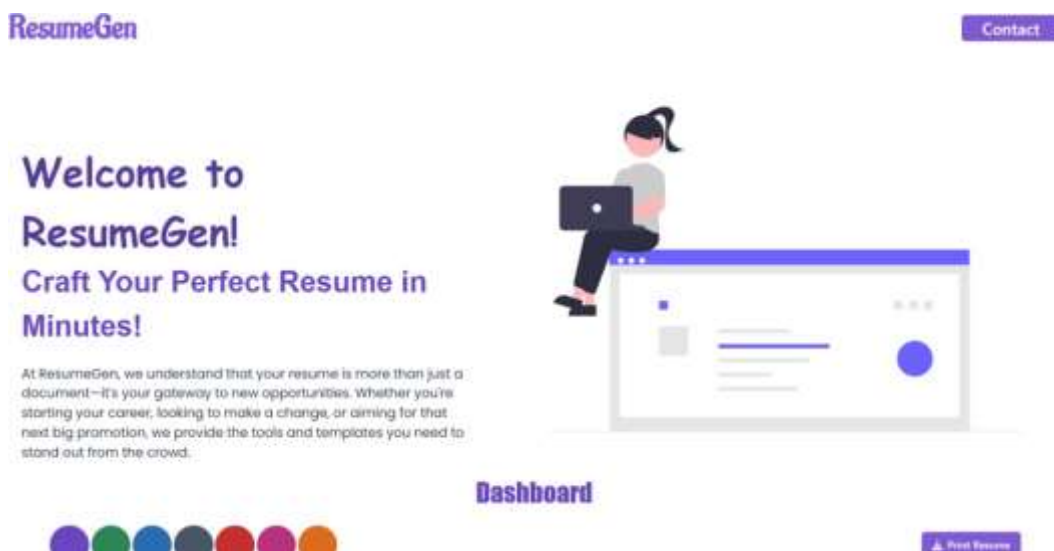
Resume Gen is an online platform that simplifies resume creation by providing users with a seamless way to build, customize, and download professional resumes. It automates the traditional process of resume formatting, making the creation of job-ready resumes more efficient. The platform allows users to enter their details, preview changes in real time, and generate structured resumes instantly. Businesses and professionals can utilize this tool to craft polished resumes tailored to their needs. By integrating real-time editing, customizable templates, and instant PDF generation, Resume Gen ensures a user-friendly and efficient experience for job seekers and professionals.

Keywords: Resume Creation, Customization, Professional Resumes, Automation, Job Seekers

1. INTRODUCTION

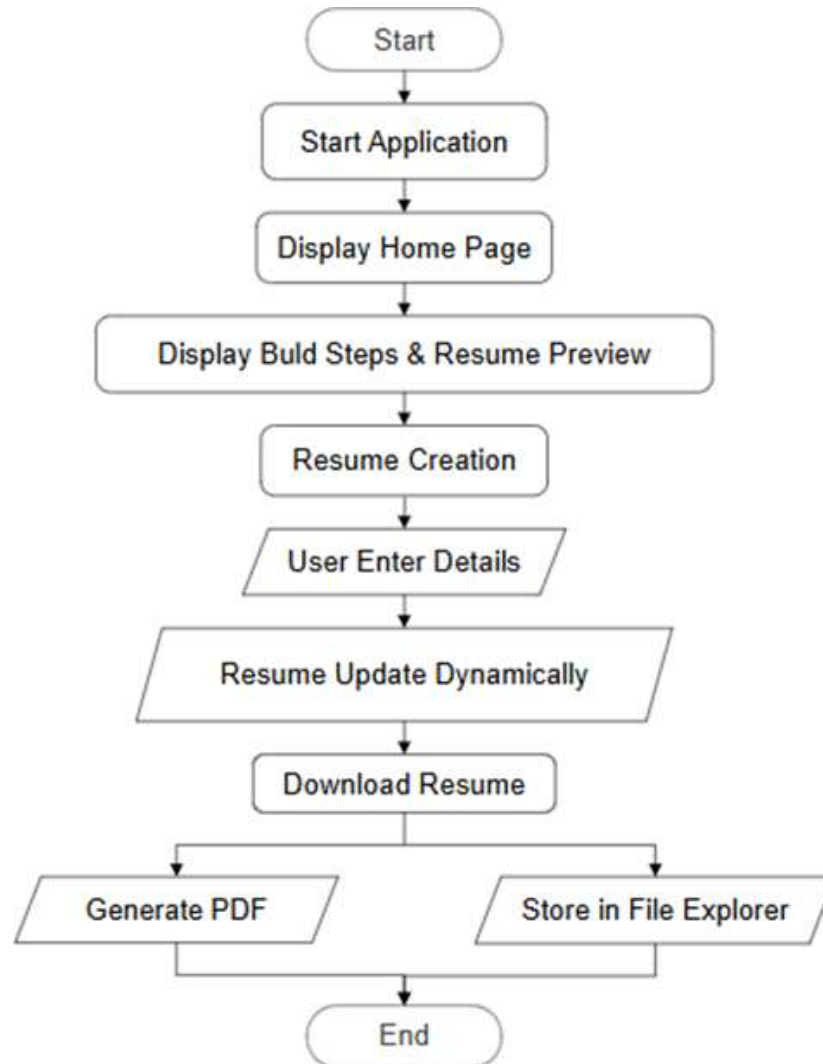
Resume Gen is a website designed to simplify and enhance resume creation by providing a one-stop platform for users to build, customize, and download professional resumes effortlessly. It functions as a comprehensive resume-building tool, enabling users to input their details, preview changes in real-time, and generate well-structured resumes in PDF format [6]. The platform is developed to make the resume creation process more efficient, allowing users to select templates, customize sections, and finalize their resumes in a streamlined manner [7]. Some of the benefits of using Resume Gen include:

- All-in-one resume-building platform for job seekers and professionals.
- Easy-to-use interface with real-time preview and customization options.
- Instant PDF generation for quick downloads and job applications.
- Structured resume templates to ensure professional formatting.
- User-friendly experience that eliminates the hassle of manual resume creation [8].



2. STRUCTURAL DESIGN.

Resume Gen is an online resume-building platform that helps users create professional resumes with ease. It simplifies the process of structuring, formatting, and downloading resumes while ensuring a user-friendly experience [9]. The platform guides users step-by-step, allowing them to input their details and preview changes in real-time. Think of Resume Gen as a personalized resume assistant, helping users craft well-structured resumes tailored to their professional needs [10]. It eliminates the hassle of manual formatting and ensures that users can generate polished resumes efficiently. The platform acts as a bridge between job seekers and potential employers, making the resume-building process more accessible, structured, and professional.



2.1 User Interface (UI)

- **User Dashboard:**

Home Page: Users are greeted with a simple interface explaining the steps to build a resume.

Resume Builder: A step-by-step guided form that allows users to enter personal details, education, experience, skills, and other relevant sections.

Real-Time Preview: Users can see an instant preview of their resume while filling out the form.

Download Section: Once the resume is completed, users can generate and download a PDF version instantly.

- **Resume Sections:**

Personal Information: Users can enter their name, email, phone number, and other contact details.

Education Details: Allows users to input academic qualifications, including school name, degree, and year of completion.

Work Experience: Users can add job roles, company names, duration, and descriptions of responsibilities.

Skills & Achievements: A structured section to list technical and soft skills, along with notable accomplishments

Projects: Users can showcase projects, adding descriptions and relevant links.

- **Navigation & Controls:**

Step-by-Step Form: The resume-building process is divided into sections for easy navigation.

Edit & Modify: Users can go back and update any section before finalizing.

Resume Download Button: Once all sections are filled, users can generate a PDF with a single click.

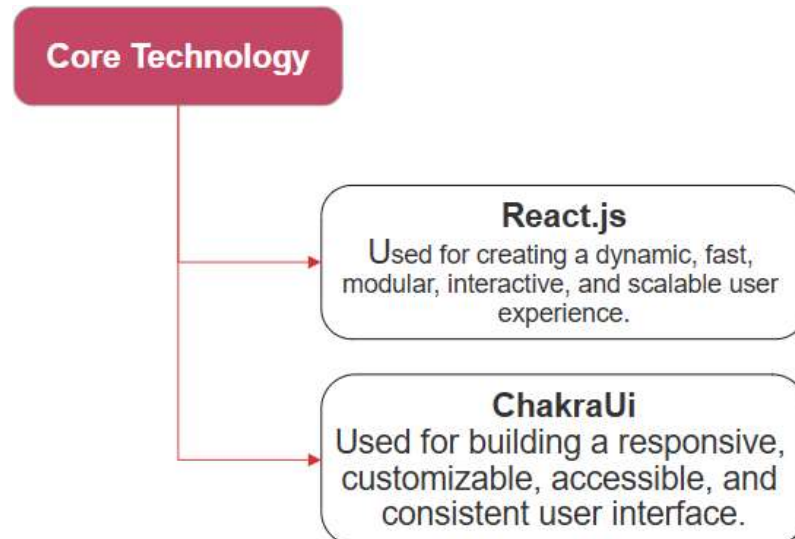
2.2 Functionality

- **Resume Building:** Enables users to input and customize their resume sections, including personal details, education, skills, work experience, and achievements.
- **Real-Time Resume Preview:** Provides users with a live preview of their resume as they fill in the form fields, allowing them to instantly see the final output.
- **PDF Download:** Allows users to download their completed resume in PDF format after filling out the necessary sections.
- **Dynamic Data Handling:** Uses dynamic data management to handle user inputs and update the resume preview seamlessly.

2.3 Technology Stack

- **Frontend:** React.js, ChakraUi(React library used for Ui development)
- **Libraries and tools: PDF Generator:** react-to-print(used to print React component as PDF's)

Resume Gen is a user-friendly platform where job seekers can build professional resumes by entering personal details, education, skills, and experience [11]. The platform offers real-time resume previews, allowing users to see instant updates as they fill in the fields. Once completed, users can download their resumes as PDFs. With potential for future expansion, the platform aims to optimize user experience and provide a seamless, customizable resume creation process.



2.4 Overall System Architecture

Tow Main User Roles:

- **Visitors/Users:** They can access the homepage to explore the platform's features, fill in tabs (e.g., skills, work experience, education), dynamically view their resume in the preview section, customize the resume color, and download the completed resume in PDF format.
- **Admin (Planned):** They will manage website performance, oversee future database integration, and ensure smooth platform functionality.
- **Web-Based Application:** The platform is accessible from any device with an internet connection, ensuring a seamless resume-building experience.

3. Literature Review

The increasing adoption of digital tools has significantly transformed how people create and manage their resumes. Traditional resume creation methods, which involved manual formatting in word processors, are gradually being replaced by online platforms that provide dynamic, user-friendly tools. ResumeGen builds upon this digital shift by offering an intuitive web-based platform where users can easily input their information, customize the color of their resume, and download it in PDF format. Several studies emphasize the role of digital resume platforms in improving accessibility, efficiency, and user satisfaction. According to Smith et al. (2021), such platforms reduce the time and effort required to create professional resumes, enhancing the overall user experience [1]. Research by Johnson & Lee (2018) highlights the importance of customization, allowing users to tailor their resumes according to specific job requirements, while real-time previews make the process more interactive and engaging [2]. Existing platforms like Zety, Novoresume, and Canva offer templates but often restrict customization options, require paid features, or lack dynamic real-time previews. Kim et al. (2019) found that users frequently face challenges when trying to create visually appealing resumes that also emphasize their skills and work experience [3]. ResumeGen addresses this gap by offering modular tabs, customizable color themes, and real-time previews, enabling users to dynamically see how their input transforms their resume layout. Personalization is another crucial factor, as McCarthy et al. (2020) found that resumes tailored to specific industries have higher chances of standing out in competitive job markets [4]. Furthermore, user privacy and data security are essential considerations in online resume platforms. Brown et al. (2017) found that secure data storage and user authentication are key to gaining user trust [5]. While ResumeGen currently focuses on frontend features, future development plans include backend integration to securely store user data, resume templates, and user preferences. By simplifying the resume-building process, enhancing customization options, and prioritizing user experience, ResumeGen aims to empower job seekers to create polished, professional resumes that improve their chances of securing employment opportunities.

4. CASE STUDY

- **Project Goals:**

1. To develop a seamless resume-building platform that allows users to create, customize, and download professional resumes dynamically.
2. To provide users with real-time preview functionality and intuitive customization features for enhanced resume personalization.

- **System Features: User Module:**

1. Step-by-step guided resume creation with multiple tabs (e.g., Personal Info, Skills, Education, Work Experience) and dynamic resume preview.
2. Dynamic resume color selection and layout customization to allow users to create personalized and professional-looking resumes.
3. Users can download the created resume in PDF format directly from the preview section.

Administrator Module:

1. Collecting user feedback to improve usability and analyzing trends on resume customization, downloads, and engagement.

Development Process:

1. The project was built using React.js (frontend) to create a dynamic and interactive interface and enhance user experience.
2. The user interface was designed with ChakraUi, ensuring smooth accessibility across desktop and mobile devices.
3. The platform underwent usability testing with different users, refining the interface and functionality to deliver an optimal experience.

5. CONCLUSION

We built ResumeGen to make the resume-building process easier and more accessible for everyone. It serves as a simple and intuitive platform where users can create, customize, and download professional resumes with real-time previews and color customization options. Instead of struggling with complex tools, users can now build their resumes effortlessly in just a few steps, making the process much more efficient.

Through this project, we learned a lot about building an interactive and user-friendly web platform. We faced challenges such as optimizing the real-time preview, ensuring smooth performance, and enhancing the user interface for a better experience. However, by focusing on intuitive design, dynamic updates, and responsive layouts, we were able to create a system that improves the overall resume-building experience.

One of the most rewarding aspects was seeing how ResumeGen simplified the process, helping users quickly generate resumes that reflect their professional identity. We hope this platform continues to assist users in creating impactful resumes while offering future enhancements like user profiles and saved resume history. Developing this system was a valuable learning experience, and we are excited about its potential improvements and its continued impact on users seeking professional opportunities.

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