A SYNOPSIS ON

CV GENERATING WEB APP

Submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF COMPUTER APPLICATION
Submitted by:

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CANDIDATE'S DECLARATION

I/We hereby certify that the work which is being presented in the Synopsis entitled
"CV Generating web app" in partial fulfillment of the requirements for the award of the
Degree of Bachelor of Computer Application in the Department of Computer Application of
the Graphic Era (Deemed to be University), Dehradun shall be carried out by the undersigned
under the supervision of **Mr. Aditya Joshi** , Department of Computer Application, Graphic
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The above mentioned student shall be working under the supervision of the undersigned on
the **"CV Generating web app"**

Signature   Signature

Supervisor   **Head of the Department**

Internal Evaluation (By DPRC Committee)

Status of the Synopsis: Accepted / Rejected

Any Comments:

Name of the Committee Members: **Signature with Date**

1.

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Introduction and Problem Statement

1.1 <u>Introduction</u>

In the modern job market, a standout Curriculum Vitae (CV) is a crucial tool for job seekers striving to capture the attention of potential employers. A CV not only highlights a candidate's qualifications, skills, and experience but also serves as the first impression in the recruitment process. However, crafting a compelling and professional CV can be a daunting task for many individuals, especially those who lack design skills or are unfamiliar with industry standards.

The primary goal of this web application is to empower job seekers by simplifying the complexities of CV writing, thereby enhancing their chances of securing employment. By leveraging advanced web technologies and an intuitive design, this application addresses common challenges faced during CV preparation and provides users with a reliable tool to present their qualifications effectively.

1.2 <u>Problem Statement</u>

Develop a web-based CV generating application designed to provide an intuitive, efficient, and accessible platform for creating professional CVs. The application aims to eliminate the common obstacles faced by job seekers in CV preparation, offering a comprehensive tool that facilitates the creation of high-quality, industry-appropriate CVs with minimal effort and maximum impact resource.

Overcome Traditional methods of CV creation, such as using word processors or relying on outdated templates, do not adequately address these challenges. They often require significant manual effort to format and customize, leading to inconsistencies and errors. Additionally, these methods do not provide real-time feedback or suggestions for improvement, further complicating the task for users who are unsure of best practices in CV writing.[1]

Background/ Literature Survey

1. Web based resume generator : In this paper abstract says, In reality, most recruiters look over a résumé for no more than 6 seconds on average. To provide valuable inputs into professionally formatted résumé can stand-out as per desired job requirements. Therefore, the purpose of this system is to generate résumé with content recommendations specifically for the IT job field. Researchers opted Waterfall model has been chosen as the methodology because the project is being developed step by step from requirement gathering and analysis to testing and evaluation. Content-based recommendation algorithm is implemented into the system as it can recommend the best skill content suitable for a job application. **[2]**

2. Web-Application on CV-Building - This academic report presents a research proposal to develop a web-based CV- building platform using ReactJS and the MERN (MongoDB, Express.js, ReactJS, Node.js) stack. Traditional CV creation methods often lack the interactivity and proactive features needed to make an impression on potential employers for a considerable amount of time. The platform's goal is to offer users a versatile and user-friendly interface to create personalized and visually impressive CVs, enhancing their capacity for work. **[3]**

3. **Resume Builder Application with Automated Job Prediction**- A resume is a formal document used by individuals to present their backgrounds and skill sets. A resume mainly consists of the individual's educational background, technical skills, work experience, social skills, and awards or publications(if any). This is the first document that describes the individual to an employer or a recruiter. It portrays the individual's image before the interview. Hence, it is essential that one should have an apt resume ready before applying for any company or job. We have proposed a system that will create a formal resume for the user and suggest/predict jobs for the user based on his/her skills. The prediction will help the user in applying for jobs that are aligned with his/her interests and skills. The Resume Builder Application will help users build his/her personal resume. [4]

4. ResumeCraft: A Machine Learning-powered Web Platform for Resume Building - This paper introduces ResumeCraft, a web-based platform empowering users to build strong resumes and optimize them for ATS compatibility. ResumeCraft leverages Machine Learning (ML) for data analysis and user guidance, while the user interface is built with Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), and JavaScript for a user-friendly experience. The system allows users to input their personal and professional details through a series of form fields, and provides a real-time preview of the resume design as the user inputs their data. The resume generator uses JavaScript to dynamically populate the preview with the user's input, and allows users to select from a range of pre-designed templates and color schemes to customize the look and feel of their resume. **[5]**

<u>Objectives</u>

The proposed work objectives are as follows:

1. Simplify the CV Creation Process: Provide an intuitive and user-friendly platform that simplifies the task of creating a professional CV, making it accessible to users with varying levels of technical proficiency and design skills.

2. Enhance CV Quality: Offer high-quality, customizable templates to ensure that users can create visually appealing and professionally formatted CVs that adhere to industry standards.

3. Increase Job Seeker Competitiveness: Equip users with the tools and guidance needed to craft compelling and well-structured CVs that effectively showcase their qualifications, skills, and experience, thereby increasing their chances of securing job interviews and employment offers.

Hardware and Software Requirements

To develop and deploy a Web Application for CV Building, we need to establish a set of system requirements that cover various aspects of the project. The successful development and deployment of the CV generating web application require a comprehensive set of system requirements, encompassing hardware, software, network, and security aspects. These requirements ensure the application is robust, user-friendly, secure, and scalable to handle various user demands.

4.1 Hardware Requirements

Sl. No	Name of the Hardware	Specification
1	Computer/Laptop	- Processor: Any modern processor (Intel i3 or equivalent) - Memory: Minimum 4 GB RAM - Storage: At least 100 MB free space for temporary data storage
2	Software Requirement	- Web Browser: Latest versions of Chrome, Firefox, Safari, or Edge - Frameworks and Libraries: React.js or Angular for dynamic user interfaces, Bootstrap for responsive design
3	Languages	HTML, CSS, JavaScript
4	Framework and modules	Bootstrap

Possible Approach/ Algorithms

To address the challenges faced by job seekers in creating professional and effective CVs, we propose the development of a comprehensive web-based CV generating application. This solution leverages modern web technologies to provide an intuitive and efficient platform that simplifies the CV creation process while ensuring high-quality results. The key features of the proposed solution include:

1. User-Friendly Interface: The application will feature a clean, intuitive interface that guides users through the CV creation process step-by-step. This ensures that even users with minimal technical skills can easily navigate and utilize the tool.

2. Customizable Templates: Users will have access to a variety of professionally designed templates tailored to different industries and job roles. These templates will be fully customizable, allowing users to modify layouts, fonts, colors, and sections to suit their individual preferences and needs.

3. Automated Formatting: The application will automatically format the entered information, ensuring consistency and professionalism. This feature eliminates the manual effort required to adjust margins, align text, and maintain uniformity throughout the document.

4. Real-Time Previews: Users will be able to see real-time previews of their CV as they input their information. This feature provides immediate feedback and allows users to make adjustments on the fly, ensuring the final document meets their expectations.

5. Content Suggestions and Tips: The application will include a library of sample phrases, tips, and best practices for CV writing. It will also offer contextual suggestions based on the information provided, helping users enhance the content and structure of their CVs.

6. Multi-Format Export: Users will have the option to export their CVs in multiple formats, including PDF, Word, and plain text. This flexibility ensures that users can easily submit their CVs in the preferred format of potential employers.

7. Secure Data Management: The application will prioritize user privacy and data security, employing robust encryption and secure storage practices to protect personal information.

8. Mobile Compatibility: The web app will be fully responsive and optimized for mobile devices, allowing users to create and edit their CVs on-the-go[8].

By incorporating these features, the proposed CV generating web application aims to address the common pain points associated with CV creation. It provides a reliable and accessible tool that enhances the quality and effectiveness of CVs, thereby increasing job seekers' chances of securing employment. This solution not only streamlines the CV writing process but also empowers users to present their qualifications in a professional and impactful manner.

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