

RESUME BUILDER SYSTEM

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Abstract:

Scoring an interview is a challenge for any job seeker these days, thus having a unique and wellorganized resume is crucial to grab a recruiter's attention. Online resume builders such as Resume Now and Visualize Me have been created to help users build resumes; however, their templates are lacking in quantity, customizability, and in some instances, even legibility. Thus, our team set out to create an infographic online resume builder, a web application that allows its users to build, organize, and beautify their resumes to aid them in their job search. Our system allows for easy integration with their LinkedIn profiles so that their work history can be easily duplicated without typing everything out. There is also a large scope of infographic template options that users can choose from and, most importantly, users will have the ability to further customize their content and organization by using the system's editing mode.

Key Words:

Infographic Resume, Online Application, Job Seeker Tool, Resume Customization, LinkedIn Integration, Work Histor, Infographic Templates, Content Editing, Web Application, Resume Organization, Recruiter Attention, Visual Resumes, Template Variety, Resume Aesthetics, Job Search, Professional Networking, User Customizability, Interactive Editing Mode, Resume Presentation.

INTRODUCTION

1.1 Aim Of The Project:

Addressing Job-Seeking Challenges

The primary aim of the project is to address the challenges faced by job seekers in today's highly competitive job market. With recruiters receiving numerous applications for every position, a unique and well-organized resume has become a critical factor in standing out. Traditional resume builders often fail to capture the attention of hiring managers due to their limited design options and lack of personalization, which can undermine a candidate's chances of making a strong first impression. This project aims to bridge that gap by

offering a system that empowers users to create resumes that are both visually appealing and professionally organized.

Creating an Innovative Resume Builder

Our project seeks to develop an innovative web-based resume builder that goes beyond the conventional offerings of existing tools such as Resume Now and Visualize Me. By incorporating infographic design principles, the system will allow job seekers to present their qualifications, experiences, and skills in a visually compelling and easily digestible format. The platform emphasizes aesthetic appeal, customizability, and legibility, ensuring that users can craft resumes tailored to specific industries or roles, thus enhancing their chances of success in the job market.

Seamless Integration with LinkedIn

Another key aim of the project is to simplify the process of resume creation by integrating the resume builder with LinkedIn profiles. Many professionals already have their work histories and accomplishments documented on LinkedIn. This system will allow users to import their existing data seamlessly, eliminating the need for manual input and reducing the time and effort required to build a comprehensive resume. This integration reflects the project's commitment to creating a user-friendly experience that leverages existing resources to maximize efficiency.

Expanding Customization Options

Our project also aims to address the limitations of existing resume builders by offering an extensive range of infographic

templates, coupled with robust customization features. Users will have the freedom to adjust design elements, layouts, and content to reflect their individual style and professional narrative. This level of customization ensures that each resume can be tailored to resonate with the targeted audience, whether it's a recruiter, hiring manager, or potential client.

Being a student in college is one of the most stressful periods in a young adult's life. It is the time in which individuals determine their career paths, all while finding their independence and fighting to be successful students and employees. In order to do so, students must showcase their talents, experiences, and skills on a single sheet of paper: the resume. Resumes represent who students are, not only as employees, but as teammates; thus, there is a lot of pressure on students to create flawless portfolios. Many students do not have practical knowledge in the process of creating a resume.

For those who do, it is still difficult to describe one's achievements and to determine which items will look most appealing to modern day employers. Hence, there is a necessity for a solution that aids students in creating effective resumes that will help them achieve their goals and set them on the right path for a successful post-graduate career. Many students have been trained to format their resumes using word processing programs like Microsoft Word or Apple Pages.

While intuitive to many users, this manual method of designing resumes requires brute force in formatting text, and leaves students with uninspiring, verbose resumes. The easiest method today is to use online resume builders like resume now.com or isualize.me, which allow users to upload preexisting documents or login with LinkedIn for efficient reusability. Resume-Now is the most popular solution since it is free, has hundreds of template options, and boasts numerous additional features.

However, Resume-now only has archaic text-based resumes, which is no longer sufficient enough to grab recruiters' attentions. This was succeeded by a newer solution, Vizualize.me, which trades out

quantity for quality, and focuses solely on creating templates for infographic resumes. These infographic designs and color schemes, however, are unreadable, only come with three templates with limited customizability, and use meaningless boxes as symbols in their infographics.

This will do more harm than good in applying for jobs, and also will cost the user money out of pocket for printing. Lastly, there is no current solution that builds resumes to appeal to specific kinds of jobs, even though it is common practice today to design separate resumes for different applications.

Our solution is a free web application that generates creative and personalized infographic resumes with little effort. Our system will allow users to login via LinkedIn and will automatically populate text areas with their experiences, education, skills and hobbies within several different templates that appeal to specific jobs (i.e. engineers like to see languages and skills first, while other positions want to see experiences listed first). In the case of creating a first resume, our application will provide tips for strong word choices in real-time that will provide users with confident-sounding job descriptions.

Users will also have full customizability options: we will provide an optional blank template for users to design a resume in their own style. These templates will provide a user-friendly experience and a larger scope of options to utilize the user's creativity. We are confident that the final product will provide students with a uniquely personalized resume that will stand out to employers.

In today's competitive job market, scoring an interview is a significant challenge for most job seekers. With recruiters often overwhelmed by large volumes of applications, it has become crucial for candidates to present resumes that are not only professionally organized but also visually appealing. A unique and well-crafted resume plays a pivotal role in capturing a recruiter's attention and making a lasting first impression, which is often the gateway to securing an interview.

Online resume-building platforms such as Resume Now and Visualize Me have sought to simplify the process of creating resumes for job seekers.

However, these tools frequently fall short of expectations, offering limited templates that lack variety, visual appeal, and customization options. Some even compromise on basic readability and design standards, which can hinder the effectiveness of resumes created using these platforms. This has left a gap in the market for a more advanced and user-focused solution.

To address these challenges, our team set out to design and develop an infographic-based online resume builder that redefines the resume creation experience. By leveraging the principles of infographic design, this system aims to transform traditional resumes into visually engaging documents that stand out in a recruiter's pile. The proposed system offers job seekers a powerful tool to create resumes that not only highlight their qualifications and experiences but also emphasize presentation and readability.

One of the standout features of the system is its integration with LinkedIn, enabling users to import their work history and achievements seamlessly. This eliminates the need for manual data entry, saving time and effort. Additionally, the system offers a wide variety of infographic templates designed to cater to diverse industries and roles. Users also gain access to an advanced editing mode, which allows them to customize their resumes' layout, design elements, and content organization, ensuring a tailored and polished result.

The proposed resume builder system is not merely a tool for creating resumes; it is a platform designed to empower job seekers in their quest for career advancement. By combining user-friendly functionality, aesthetic appeal, and practical features like LinkedIn integration, the system equips users to present their credentials effectively. This project represents a significant step forward in addressing the evolving needs of job seekers and recruiters, bridging the gap between traditional resume-building methods and modern expectations.

LITERATURE SURVEY.

1. Attia, Amir. "Project Reader: Website Graphic Design." Series of personal interviews.

Our team has selected Professor Amir Attia from the Arts & Art History Department to be our project reader because of his remarkable design skills and willingness to critique our work until it has reached perfection. We will be utilizing his expertise when creating the infographics and design elements of the web application's interface. He will also be supplying his own ideas during the design process and introducing us to material about current design trends, color theory, and font matching.

2. Career Center. Guide. Santa Clara: Santa Clara University, 2016. PDF.

During the interview with Meghan Cress, Cress showed us the Santa Clara University Career Center's resume guide, which is a short PDF file about the steps in creating a successful resume and a personal brand. A large part of this project is to show the user's personality through their infographic resume.

so this guide will help our team with tips on how to achieve that. For example, the guide supplies visual examples and formatting restrictions, which we can implement into our system so that user's do not unknowingly create bad resumes.

3. Cress, Meghan. "Regarding the Modern Resume: What Works and What Doesn't." Personal interview. 14 Nov. 2016.

On November 14, our team scheduled an interview with one of the most highly-recommended employees of the Santa Clara University Career Center, Meghan Cress, to ask her questions regarding trends in resumes, the do's and don't's of using graphics in resumes, as well as the formatting of resumes to appeal to recruiters in different fields of work. As a former recruiter herself, Cress' insights were invaluable.

Cress will also be a valuable resource moving forward, so since she has agreed to collaborate with our team to solicit beta testers in the career center and to create an online link invitation through the career center site to our web application.

4. Fielding, Jonathan. "Introduction to Responsive Design." Beginning Responsive Web

Design with HTML5 and CSS3 (2014): 1-33. Web.

The main goal of the article is to explore the scope of responsive web design when using optimization techniques with HTML and CSS. In the article, the author discusses the increasing popularity of smartphones, tablets, and laptops, which in turn has created the need for responsive web design.

This article is useful since it also supplies practical examples of optimal user experiences on various platforms. Our team recognizes that in order to make our application accessible it is helpful to build a responsive design, which will ultimately help us to improve the overall user experience of our system.

5. Google. "Using Google Charts." Google Charts. Google Developers, 26 May 2015. Web. 28 Nov. 2016.

In our system we will be using Google Charts to create dynamic graphics, graphs, and charts that can be modified automatically when a user updates his or her information. We have chosen Google Charts specifically since their graphics will look clean and be easily understood to any employers viewing our user's resumes.

This is why Google Charts' documentation will be useful for our team to implement this feature as well as to troubleshoot any future issues that may arise.

6. Harrison, Lane, Katharina Reinecke, and Remco Chang. "Infographic Aesthetics." Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems. - CHI (2015).

This article mainly argues that aesthetics in visualization and infographics relate to the desirable outcome of engagement and memorability. Mostly importantly, it talks about how age, gender and education level influence a user's preferences in degrees of colorfulness and complexity.

By using the information provided in this article, we can design and suggest different color themes for our resume templates based on the user's

background. This article thus helps us to further personalize our system and potentially increase customer satisfaction.

7. LinkedIn. "Sign In with LinkedIn." LinkedIn Developers. LinkedIn Documentation, 2016. Web. 11 Nov. 2016.

In our system we will be using the LinkedIn Software Development Kit (SDK) to implement a "Log In through LinkedIn" feature in order to attract more users. This is a good feature to implement since it will encourage users to integrate their two accounts as well as save them time in entering personal and work history information.

This is why LinkedIn SDK's documentation will be useful for our team to implement this feature as well as to troubleshoot any future issues that may arise.

PROPOSE METHOD

1. Overview of the System

Our proposed method introduces an infographic online resume builder designed to offer users a seamless experience in creating attractive and professional resumes. The system leverages a user-friendly interface, a library of infographic templates, and advanced editing tools to allow users to customize resumes to their specific needs. The system begins with user registration and login to ensure secure access. Users create profiles to store their personal information and work history, which can be accessed and updated as needed. Cloud-based storage ensures that resumes remain accessible and can be edited on different devices.

3. LinkedIn Integration

To reduce data entry efforts, our system integrates with LinkedIn's API to import a user's work experience, education history, and skills directly from their profile. This ensures accuracy and saves time, making the process more efficient for users.

4. Infographic Template Library

The system provides a comprehensive library of professionally designed infographic templates suitable for various industries and job roles. Templates feature different styles, including minimalistic, modern, and creative designs, to cater

to diverse user preferences and recruiter expectations.

5. Real-Time Customization Tools

A robust editing mode is central to the system, allowing users to modify templates in real time. Users can adjust fonts, colors, section layouts, and graphics to align with their personal branding and job requirements. This ensures that resumes reflect the user's unique profile.

6. Drag-and-Drop Feature

To enhance usability, the system incorporates a drag-and-drop feature. Users can easily rearrange sections such as work experience, skills, or education, offering a dynamic way to personalize content without needing advanced design skills.

7. Skill Mapping and Visual Enhancements

Our platform allows users to map skills visually using graphs, charts, and icons. For example, proficiency levels can be depicted using bar graphs or radial charts, providing a clear, appealing representation of the user's expertise.

8. Multi-Lingual Support

Recognizing the global job market, the system supports multiple languages, enabling users to create resumes tailored to specific countries or regions. Localization options include language-specific templates and formatting standards.

9. Mobile-Responsive Design

The system is fully mobile-responsive, allowing users to create and edit resumes from smartphones, tablets, or computers. This ensures flexibility for users to work on their resumes anytime, anywhere.

compatibility with diverse application processes and recruiter preferences.

IV RESULTS

In this project we have designed all possible modules which can be designed to build resume automatically. User can upload photo and can define various education details, work experiences, skills, contact address and numbers. User can upload profile photo also.

Users are allow to sign up, login, update profile

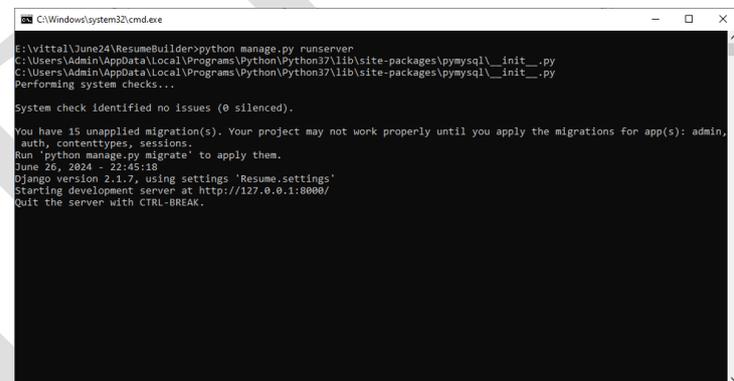
Users can generate resume and can view all past created resumes

All resumes will get saved in encrypted format on server

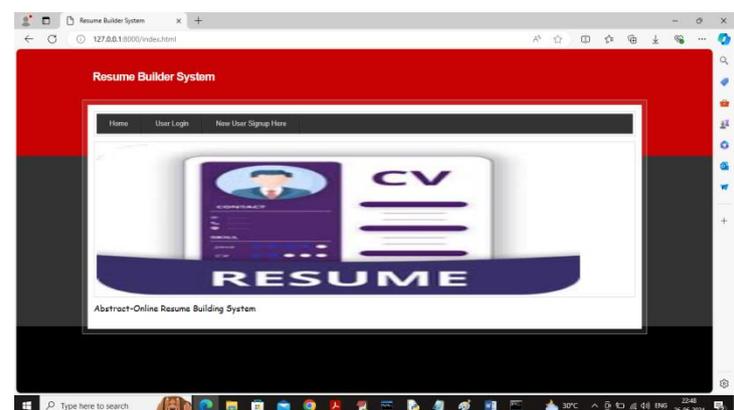
User can download desired resume in decrypted format.

To run project install python 3.7 and then install all packages given in requirements.txt file and then install MYSQL database and then copy content from DB.txt file and paste in MYSQL console to create database

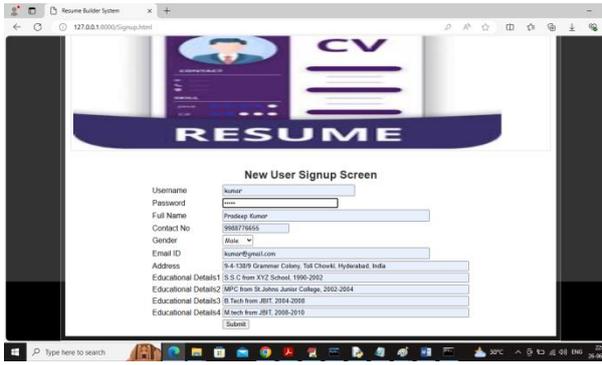
To run project double click on 'run.bat' file to start python server and get below page



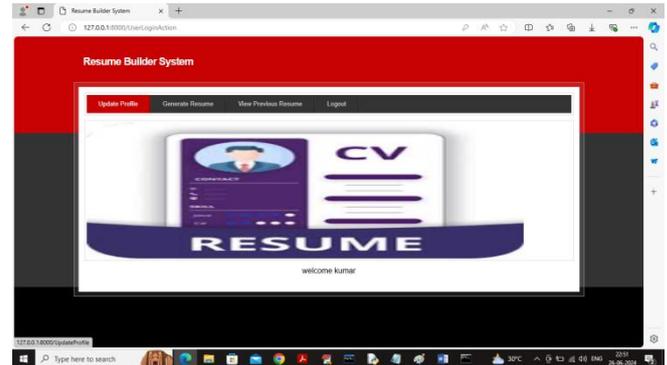
In above screen python server started and now open browser and enter URL as <http://127.0.0.1:8000/index.html> and press enter key to get below page



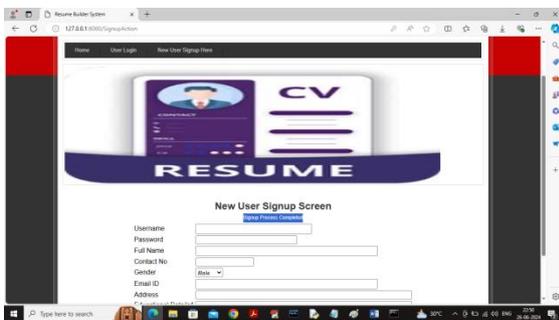
In above screen user can click on 'New User Sign up' link to get below page



In above screen user is entering sign up profile details and then press button to save all user profile details to database and this details will be used to create user resume and user can update above details by login to system



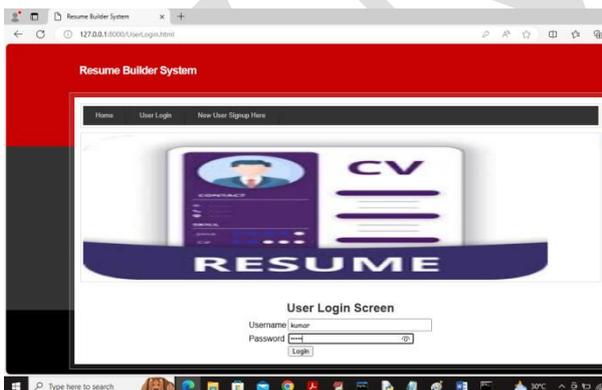
In above screen user can click on 'Update Profile' link to view user details and can update desired details



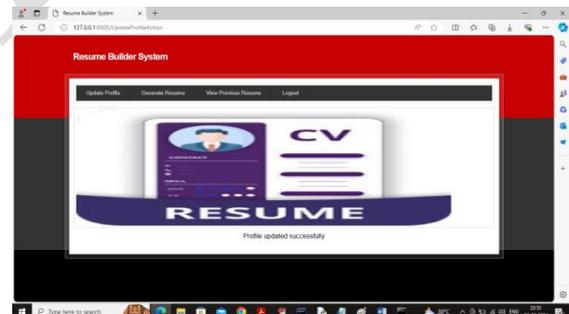
In above screen user sign up process completed and now click on 'User Login' link to get below login screen



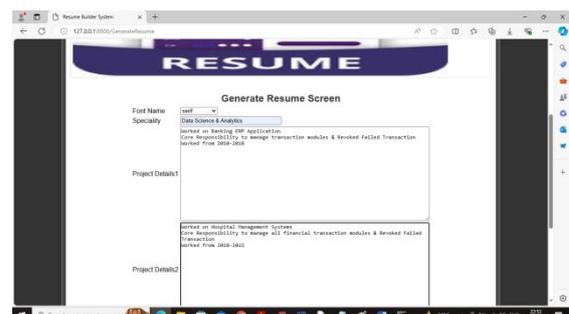
In above screen user can view existing profile details and can update desired details and then press button to get below page



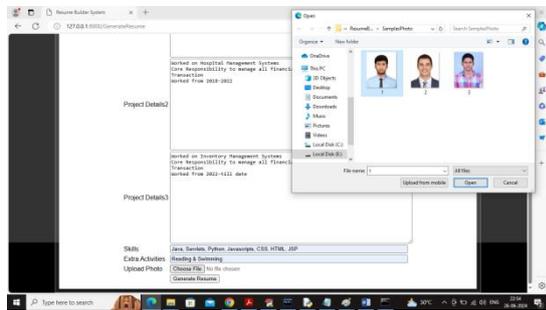
In above screen user is login and after login will get below page



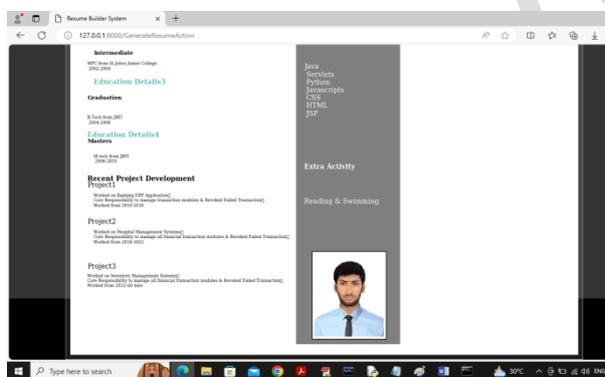
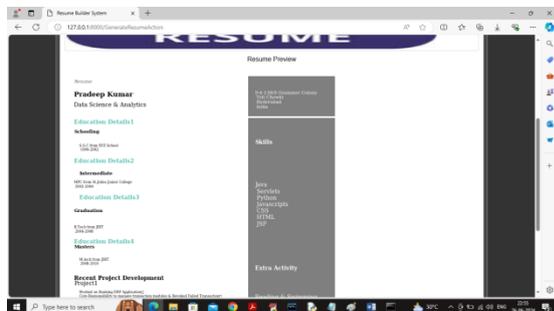
In above screen profile details updated and now click on 'Generate Resume' link to get below page to generate resume



In above screen user will enter work experience details



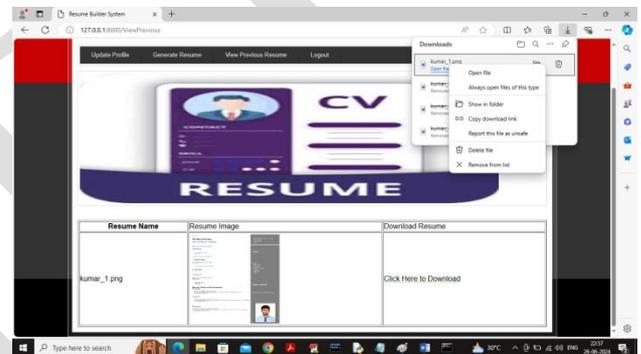
In above screen user will enter all resume details and then upload photo and then click on 'Generate Resume' button to generate resume and can view preview like below screen



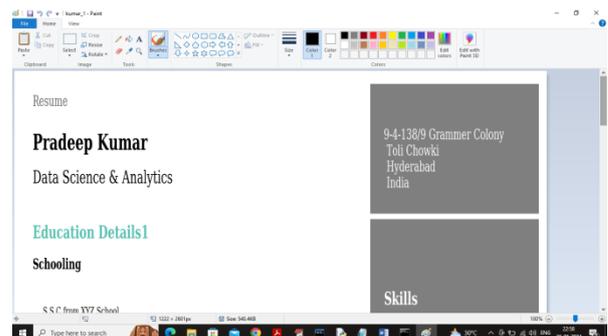
In above screen user resume created and can click on 'View Past Resume' link to view all generated resumes and get below page

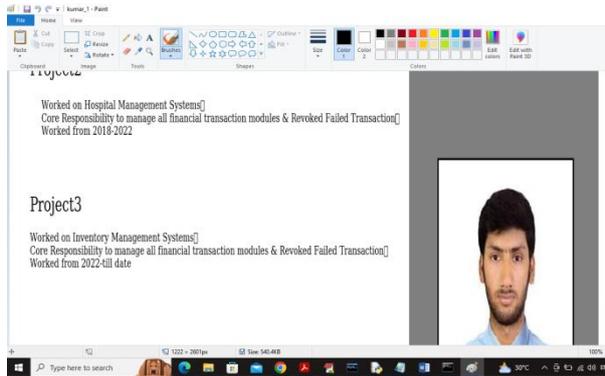


In above screen user can view all generated resume in tabular format and can click on 'Click Here to Download' link to download resume and get below page

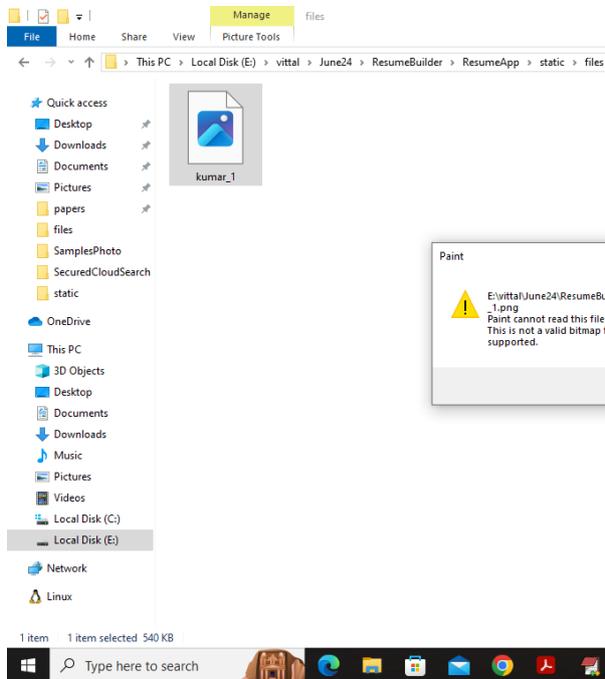


In above screen resume is downloaded and user can view in any photo viewer application like below screen





In above screen user can view resume in Paint tool and in below screen can see all resumes are saved at server in encrypted format



In above screen user resume is not opening as server saved in AES encrypted format.

Similarly by following above screens you can generate resumes

CONCLUSION.

Throughout this process, our team has learned the value of delegation and the value of creating a more conservative timeline. When dividing up tasks as a team we had to pay attention to each member’s strengths in order to complete aspects of

our system efficiently; otherwise, it would be easy for our team to each work on the same thing: the design aspect of our system.

Due to the system’s complex back-end though, we had to assign one teammate to focus on styling and drive the others to work on the code. Furthermore, we learned the importance of a conservative timeline since it is common for unexpected delays to occur. When we were behind schedule, we learned to compromise and remain flexible in order to catch ourselves back up. We are very happy with the results of our system, since it is both functioning and aesthetically pleasing.

We plan to continue working on this project so that it can have more options for customization and include a read-only portal.

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