

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama” BELAGAVI – 590018, Karnataka



## INTERNSHIP REPORT ON

### **“Interactive Resume Template”**

*Submitted in partial fulfillment of requirements for the course Internship(21INT68)  
of Sixth Semester of Bachelor of Engineering in Information Science and  
Engineering during the academic year 2023-24.*

*Submitted by:*

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# MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

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### CERTIFICATE

This is to certify that the Internship titled “**Interactive Resume Template**” a bonafide work carried out by **Anagha Ananth(4MH21IS008)** in partial fulfillment for the **Internship(21INT68)** prescribed by the Visvesvaraya Technological University,Belagavi, during the year 2023-2024 for the sixth semester **Bachelor of Engineering, in Information Science and Engineering**. The Internship report has been approved as it satisfies the academic requirements.

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**Signature of HOD**  
**(Dr. Sharath Kumar Y H)**  
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**ANAGHA ANANTH (4MH21IS008)**

# **ABSTRACT**

The purpose of Interactive Resume Template is to automate the existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Interactive Resume Template, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Overview

Web development refers to the creating, building, and maintaining of websites. It includes aspects such as web design, web publishing, web programming, and database management. It is the creation of an application that works over the internet I.e, websites. The word web development is made up of two words that is: web. It refers to websites, web pages or anything that works over the internet. Development refers to building the application from scratch.

#### 1. They can be accessed from anywhere.

- Because web applications are built with web technologies and they run in a web browser Internet Explorer, Google Chrome, Mozilla Firefox – this allows them to be accessed from every web enabled tool. As long as you have an internet connection you can use them.
- It allows for remote working, it allows for rapid publishing of content, it allows for real time collaboration between teams. If you have web access, you have the ability to access your business tools.

#### 2. They are cost effective.

- Web applications are cheaper to produce and maintain than traditional applications. No matter how many platforms your business uses (Mac, Linux, Windows) web application build can be used across them all.

#### 3. They benefit from more rapid update cycles.

- A huge benefit of web applications is that when an update is released, all of your users are immediately using that version. This doesn't happen with installed applications, especially in large organizations with IT policies that restrict administrator access.

#### 4. They are secure.

- Web developers have had to become experts in security – the web is a platform designed to share everything with everyone! As such, the types and levels of security included in web applications are often far greater than those seen in traditional applications.

#### 5. They enable more computing with fewer Information.

- Web applications push all of the hard work to the servers, and act as intermediaries between the user interface and the calculations happening behind the scenes. This means you can accomplish terrifyingly complex work on a tablet, or your phone.
- We've built web applications that allow people to understand the complex relationships between 250,000 pieces of art on their phones, and applications that run the business systems of one of the largest solar energy providers in the world. Often these products are not financially viable to build using traditional application processes.

### 1.2 Problem Statement:

Interactive Resume Template: Develop an interactive and visually appealing online resume template with sections for skills, work experience, and projects. Use HTML, CSS and a JavaScript framework for dynamic elements.

### 1.3 System Analysis of Interactive Resume Template:

#### 1. Introduction:

The resume builder front-end project aims to develop a user-friendly interface for creating and editing resumes. This system analysis report provides an overview of the project's requirements, goals, and the analysis conducted to ensure effective design and implementation.

#### 2. Project Objectives:

- Develop a responsive and intuitive front-end for a resume-building application.
- Enable users to create, edit, and customize their resumes easily.

- Ensure compatibility across various devices and browsers.
- Implement a user-friendly interface with a focus on accessibility and user experience.

### 3. Requirements Analysis:

- **User Stories:**

- Identified key user roles (e.g., job seekers, professionals) and their needs.
- Defined user stories to capture specific functionalities, such as adding employment history, education details, and skills.

- **Functional Requirements:**

- Detailed the features required, including a WYSIWYG editor for content input, template selection, and real-time preview.
- Considered the need for collaboration features, allowing users to share and receive feedback on their resumes.

- **Non-functional Requirements:**

- Addressed performance expectations, including quick load times and responsiveness.
- Ensured compatibility with popular browsers and adherence to accessibility standards.

### 4. System Design:

- **User Interface (UI) Design:**

- Created wireframes and prototypes for different screens to visualize the layout and flow.
- Incorporated design principles for a visually appealing and user-centric interface.
- Information Architecture:
  - Defined the data structure for storing resume information.
  - Ensured a scalable architecture to accommodate future updates and additions.

### 5. Technology Stack:

- Selected frontend technologies such as HTML, CSS, and JavaScript to build a dynamic and interactive user interface.
- Considered the use of frameworks like React or Vue.js for efficient component-based development.



## 6. Security Considerations:

- Implemented secure data transmission (HTTPS) and ensured data privacy.
- Addressed potential vulnerabilities, such as input validation and protection against cross-site scripting (XSS) attacks.

## 7. Testing Strategy:

- Outlined a comprehensive testing plan, including unit testing for individual components and integration testing for the entire frontend.
- Incorporated user acceptance testing (UAT) to gather feedback and ensure the system meets user expectations.

## 8. Conclusion:

The system analysis phase lays the foundation for a successful resume builder frontend project. By understanding user needs, defining requirements, and considering design and technical aspects, the development team is well-equipped to proceed with the implementation phase.

This report serves as a roadmap for the subsequent stages of development, ensuring a well-structured and user-centric resume building application.

## 1.4 Design Analysis of Interactive Resume Template:

### 1. Introduction:

The purpose of this report is to conduct a design analysis of the front end of an online resume builder. The front end is a crucial component as it directly influences user experience and engagement.

### 2. User Interface (UI) Design:

- Evaluate the UI design for its clarity, consistency, and user-friendliness.
- Assess the use of color schemes, typography, and visual hierarchy to enhance readability and accessibility.
- Consider the responsiveness of the design across various devices.

**3. User Experience (UX):**

- Examine the overall flow of the frontend to ensure a seamless user experience.
- Evaluate the effectiveness of interactive elements, such as form inputs and buttons.
- Consider the intuitiveness of the navigation and the clarity of the information architecture.

**4. Form Input and Validation:**

- Analyze the design of input forms for creating and editing resumes.
- Evaluate the validation mechanisms to ensure accurate and error-free data entry.
- Consider user feedback mechanisms for form submissions.

**5. Template Customization:**

- Assess the variety and quality of resume templates available.
- Evaluate the ease of customization, allowing users to tailor templates to their preferences.
- Consider the flexibility of design elements, such as sections and styling options.

**6. Collaboration and Sharing Features:**

- Evaluate any collaborative features that allow multiple users to work on a resume simultaneously.
- Assess the sharing functionalities, ensuring compatibility with different platforms.
- Consider the privacy and security aspects of shared resumes.

**7. Performance:**

- Analyze the front end performance in terms of loading times and responsiveness.
- Consider optimization techniques for images and other media elements.
- Evaluate the use of caching mechanisms to enhance user experience.

**8. Accessibility:**

- Examine the front end for adherence to accessibility standards, ensuring inclusivity.
- Evaluate the use of alternative text for images and proper semantic markup.
- Consider keyboard navigation and other assistive technologies.

**9. Cross-Browser Compatibility:**

- Assess the compatibility of the front end with different web browsers.
- Identify and address any issues related to rendering or functionality across various browsers.

**10. Future Recommendations:**

- Suggest improvements or additional features based on current design analysis.
- Consider emerging trends in UI/UX design that could enhance the frontend.

**11. Conclusion:**

In conclusion, this design analysis provides insights into the strengths and areas of improvement for the online resume builder frontend. Implementing the recommended changes will contribute to a more user-friendly, efficient, and aesthetically pleasing experience for users engaging with the platform.

## CHAPTER 2

### COMPANY DETAILS

#### 2.1 Company Profile:

Varcons Technologies, was incorporated with a goal "To provide high quality and optimal Technological Solutions to business requirements of our clients". Every business is a different and has a unique business model and so are the technological requirements. They understand this and hence the solutions provided to these requirements are different as well.

They focus on clients requirements and provide them with tailor made technological solutions. They also understand that Reach of their Product to its targeted market or the automation of the existing process into e-client and simple process are the key features that our clients desire from Technological Solution they are looking for and these are the features that we focus on while designing the solutions for their clients.

Sarvamoola Software Services. is a Technology Organization providing solutions for all web design and development, MYSQL, PYTHON Programming, HTML, CSS, ASP.NET and LINQ. Meeting the ever increasing automation requirements,

Sarvamoola Software Services. specialize in ERP, Connectivity, SEO Services, Conference Management, effective web promotion and tailor-made software products, designing solutions best suiting clients requirements.

Varcons Technologies, strive to be the front runner in creativity and innovation in software development through their well-researched expertise and establish it as an out of the box software development company in Bangalore, India. As a software development company, they translate this software development expertise into value for their customers through their professional solutions.

They understand that the best desired output can be achieved only by understanding the clients demand better. Varcons Technologies work with their clients and help them to define their exact solution requirement.

Sometimes even they wonder that they have completely redefined their solution or new application requirement during the brainstorming session, and here they position themselves as an IT solutions consulting group comprising of high caliber.

## 2.2 About the company

Varcons Technologies is a Technology Organization providing solutions for all web design and development, MYSQL, PYTHON Programming, HTML, CSS, ASP.NET and LINQ. Meeting the ever increasing automation requirements, Varcons Technologies specialize in ERP, Connectivity, SEO Services, Conference Management, effective web promotion and tailor-made software products, designing solutions best suiting clients requirements. The organization where they have a right mix of professionals as stakeholders to help us serve our clients with best of our capability and with at par industry standards. They have young, enthusiastic, passionate and creative Professionals to develop technological innovations in the field of Mobile technologies, Web applications as well as Business and Enterprise solution. Motto of our organization is to “Collaborate with our clients to provide them with best Technological solution hence creating Good Present and Better Future for our client which will bring a cascading a positive effect in their business shape as well”. Providing a Complete suite of technical solutions is not just our tag line, it is Our Vision for Our Clients and for Us, We strive hard to achieve it.

### 1.Objectives:

Main goal is to find smart ways of using technology that will help build a better tomorrow for everyone, everywhere and to offers a variety of advantages over traditional software licensing models and here at VCT tend to include the key features of SaaS in everything to build.

- To deliver high- quality, customized web design and development solutions that meet or exceed our clients’ expectations and achieve their business goals
- To stay up- to- date with industry standards and best practices, and to ensure that our web design and development solutions comply with all relevant regulations and guidelines
- To understand customer requirements and fulfill them.
- Increase the assets and investments of the organization to support the development of services and expansion of the organization
- To increase the productivity and improve the customer service satisfaction.
- To do innovations in Software field and provide quality services to deliver a range of products.

## 2. Major Milestones:

Varcons Technology Pvt. Ltd. strives to be the front runner in creativity and innovation in software development through their well-researched expertise and establish it as an out of the box software development company in Bangalore, India. As a software development company, they translate this software development expertise into value for their customers through their professional solutions.

They understand that the best desired output can be achieved only by understanding the clients demand better. Varcons Technology Pvt Ltd. works with their clients and help them to define their exact solution requirement.

Sometimes even they wonder that they have completely redefined their solution or new application requirement during the brainstorming session, and here they position themselves as an IT solutions consulting group comprising of high caliber consultants. They believe that Technology when used properly can help any business to scale and achieve new heights of success. It helps Improve its efficiency, profitability, and reliability; to put it in one sentence Technology help s you to delight your customers.

## 3. Specific Functionalities of the Department

**Software Development** The primary responsibility of the developers' department is to design, develop, test, and deploy software applications to meet the requirements of the clients or end-users. Developers use programming languages, frameworks, and tools to create software products that are efficient, user-friendly, and scalable.

**Technical Support:** Developers provide technical support to clients, end-users, and other departments within the organization. They troubleshoot technical issues, provide solutions, and help users understand how to use software products.

**Research and Development:** Developers are responsible for researching new technologies and trends in software development to improve the quality of the products and services offered by the organization. They experiment with new programming languages, tools, and techniques to enhance the organization's capabilities.

**Collaboration:** Developers work closely with other departments, such as project management, quality assurance, and user experience, to ensure the software products meet the organization's requirements and standards. They collaborate with clients to understand their needs and develop software that meets their specific requirements.

**Continuous Improvement:** Developers continuously improve software products through upgrades, bug fixes, and new feature additions. They monitor the performance of software products, analyze user feedback, and make necessary adjustments to improve the product's overall usability and functionality.

## 2.3 Services Offered:

- **Website as Software:** They develop websites that behave and interact similar to sophisticated software.
- **Branding and Design:** They offer professional Graphic design, Brochure design & Logo design, are experts in crafting visual content to convey the right message to the customers. They also design custom wraps for your products (also known as package designing)
- **Search Engine Optimization:** They help you manage your SEO campaign more efficiently and effectively. We help you gain market share by leveraging our expertise. our holistic approach to identify anything that may be hurting your traffic or rankings and show you just how to outrank the competition.
- **Analysis and Research:** We analyze the way your users/customers interact with you/your business by gathering, studying and understanding the consumer voice and their perception of the product/service
- **Embedded System and IOT:** We work with consumer electronics, lighting, home automation, metering, sensor technology, home appliance and medical devices companies to help them create smart and connected products.
- **Comprehensive Customer Support:** With a comprehensive range of services, we guarantee your technology needs are not just met, but exceeded. We shall work with you customer/users closely to understand the way your users/customers use make use of products.

## CHAPTER 3

# REQUIREMENT ANALYSIS

### 3.1 Hardware Requirement Specification:

- NODE JS
- Notepad++ Editor, Visual Studio Code
- Processor: Intel core i5 processor
- Memory: 15.6 GB
- Hard Disk: 40 GB
- Google Chrome, Firefox

### 3.2 Software Requirement Specification:

#### 1.Functional Requirements:

- **User Authentication:** Allow users to create accounts and log in securely.
- **Resume Sections:** Provide editable sections for personal information, education, work experience, skills, and projects.
- **Dynamic Content:** Implement interactive elements like accordions, tabs, and real- time updates.
- **Portfolio Integration:** Support multimedia elements, allowing users to showcase projects.
- **Skill Assessment:** Include interactive charts or graphs to represent skill levels.
- **Contact Form:** If needed, incorporate a secure contact form for communication.
- **Export Functionality:** Allow users to export the resume as a downloadable PDF



## 2. Non-Functional Requirements:

- **Performance:**

- Ensure fast loading times for a seamless user experience.
- Optimize code and assets to reduce latency.

- **Scalability:**

- Design the system to handle a growing number of users and resumes.
- Implement caching mechanisms for improved performance.

- **Security:**

- Employ secure authentication methods.
- Protect against SQL injection and other common vulnerabilities.

- **Compatibility:**

- Ensure cross-browser compatibility.
- Make the template responsive for various devices.

- **Usability:**

- Prioritize an intuitive and user-friendly interface.
- Provide clear navigation and instructions for users.

These software requirements address both the technical aspects of the interactive resume template and the functional and non-functional needs essential for a robust and user-friendly system.

## CHAPTER 4

# IMPLEMENTATION

The implementation of the front end for a resume template is a crucial step in creating a visually appealing, interactive, and user-friendly experience.

### 4.1 Key considerations:

- **Design Mockup:**

Begin with a design mockup to visualize the structure, layout, and visual elements of the resume template. Consider the placement of sections, color schemes, and typography for a professional look.

- **HTML5 Structure:**

Create the HTML5 structure based on the design mockup. Use semantic HTML tags to represent different sections of the resume, ensuring accessibility and search engine optimization.

- **CSS Styling:**

Apply CSS styles to enhance the visual appeal of the template. Use a responsive design approach with media queries to ensure compatibility across various devices.

- **JavaScript Interactivity:**

Incorporate JavaScript to add interactive elements such as accordions, tabs, or sliders. Utilize frameworks like React, Angular, or Vue.js for efficient development and state management.

- **Dynamic Content Integration:**

Implement AJAX for asynchronous data retrieval, allowing dynamic updates without refreshing the entire page. Retrieve data in JSON format and dynamically populate the resume sections.

- **Multimedia Elements:**

Integrate multimedia elements, such as images, videos, or project demos, to enhance the visual representation of skills and accomplishments. Ensure a seamless and responsive display of these elements.

- **User-Friendly Navigation:**

Ensure intuitive navigation through the resume sections. Implement smooth scrolling or anchor links to enhance the user experience.

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- **Export Functionality:**

If required, integrate PDF generation libraries like js PDF to enable users to download their interactive resume as a PDF document.

- **Testing:**

Conduct thorough testing across different browsers and devices to ensure the template's responsiveness and compatibility. Check for visual consistency and interactivity.

- **Optimization:**

Optimize the frontend code and assets to improve performance. Minimize file sizes, leverage caching, and consider lazy loading for resource-intensive elements.

- **Documentation:**

Document the frontend implementation, including code structure, dependencies, and any external libraries used. This documentation will be valuable for future maintenance or collaboration.

- **User Feedback:**

Gather user feedback during and after the implementation phase to identify areas for improvement. Consider usability testing to ensure the template meets user expectations.

By following these steps, the implementation of the resume template front end can result in a polished, interactive, and user-centric design, effectively showcasing the skills and experiences of the individual.

# SNAPSHOTS

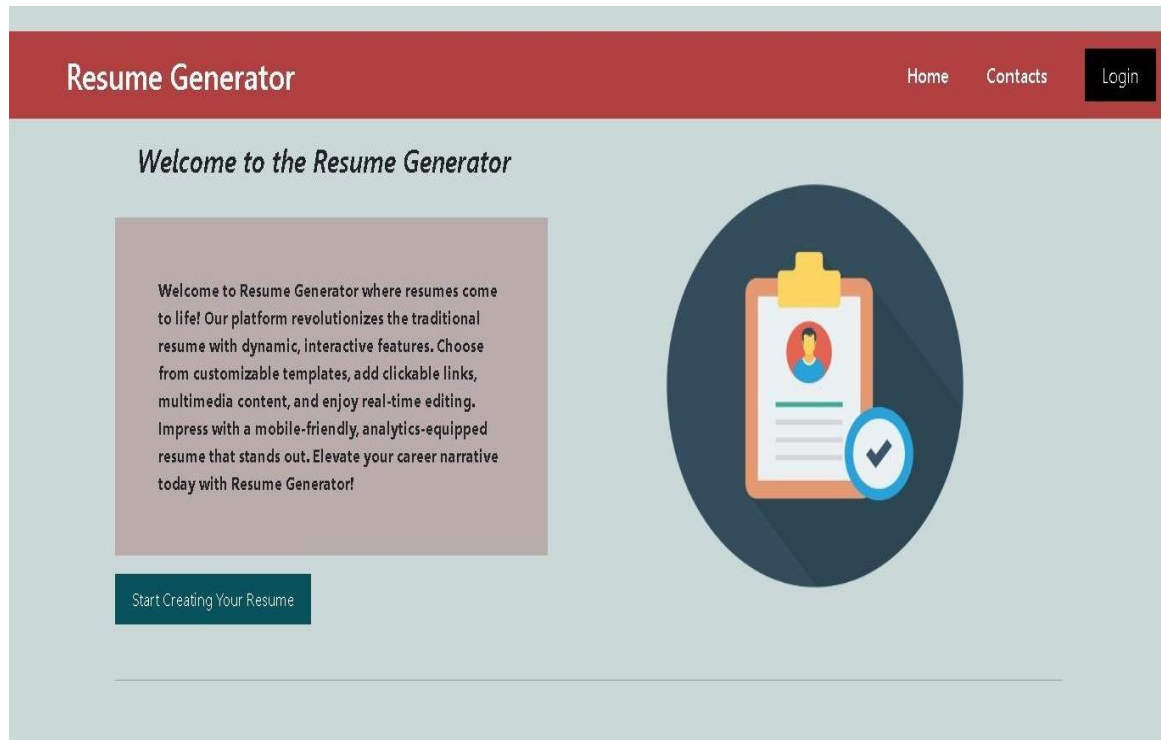


Fig 1:Home Page

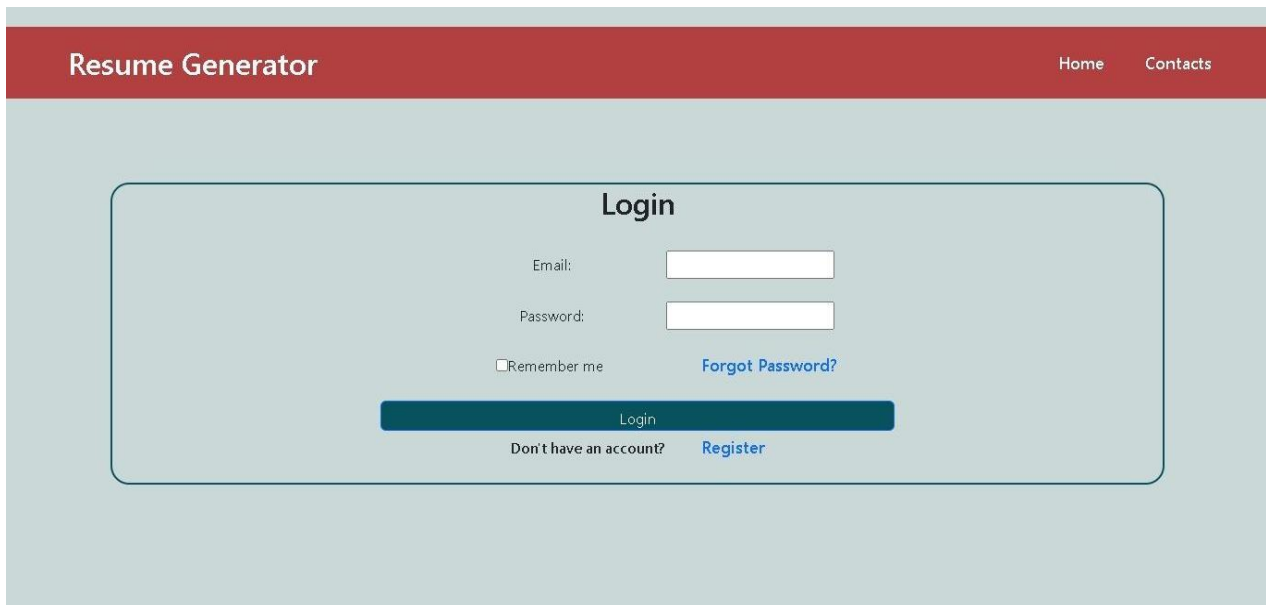


Fig 2:Login Page

Resume Generator

[Home](#)[Contacts](#)

Personal Information

Your Name:

Phone number:

Email:

Social profile

Facebook:

Instagram

Linkedin:

Objective:

Education:  
  

Add

Skills  
  

Add

Work Experience  
  


Add

Generate Resume

Fig 3:Resume Detail Form Page

Resume Generator

[Home](#)[Contacts](#)



Name:

Phone:

Email:

Facebook:

Instagram:

LinkedIn

Objectives:

Education

Skills

Work Experience:

Fig 4:Resume Template-a

Resume Generator

Home

Contacts

Profile

Email:

Facebook:

Instagram:

LinkedIn

Skills

Work Experience:

Print Resume

Go back to Form

Fig 5:Resume Template-b

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## CONCLUSION

The internship at Varcons Pvt. Ltd. provided a valuable opportunity to gain hands-on experience in web development while working on an Interactive Resume Builder. Throughout the internship, the focus was on mastering front-end and back-end technologies, understanding the web development life cycle, and applying industry-standard tools and best practices. Exposure to real-world challenges, such as user interface design, responsive layouts, and dynamic content generation, helped enhance both technical and problem-solving skills.

The project successfully met its objectives by delivering a functional and user-friendly web application that adhered to the design and requirement specifications. Collaborating with a professional team offered insights into effective communication, teamwork, and project management. Overall, the internship was instrumental in bridging the gap between theoretical knowledge and practical application, equipping the intern with essential skills for success in the field of web development.

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