DECLARATION

I, RAJAN TIWARI hereby declare that this internship study and project report titled "Enhancing Social Welfare through Integrated Web Platforms" has been prepared by me under the supervision of Mr. GYANENDRA DIXIT, Assistant Professor, BBDITM affiliated to Dr. A P J Abdul Kalam Technical University, in the partial fulfillment for the award of the Bachelors in Technology during the year 2023-2024.

I have undergone an internship for an internship for a period of 4 weeks, I hereby declare that this Internship Report has not been submitted to any other university for the award of any other degree, fellowship, associateship or any other similar title.

Date:26.11.2023   Name-Rajan Tiwari
Place: Lucknow

CERTIFICATE

This is to certify that Mr. RAJAN TIWARI is a bonafide student of B.Tech seventh semester (2023-2024 batch) at BBDITM, Lucknow. This internship report titled "Enhancing Social Welfare through Integrated Web Platforms" has been prepared by prepared by him in partial fulfillment for the award of the Bachelor of Technology In Computer Science & Engineering from BBDITM, Lucknow. under the supervision of Mr. Gyanendra dixit, Assistant Professor, BBDITM, of this institute.

Mr. Gyanendra dixit   **Dr. Anurag Tiwari**

Assistant Professor   Head of Department

Department of CSE   Department of CSE

BBDITM, Lucknow   BBDITM, Lucknow

Date:26.11.2023

Place: Lucknow

Certificate from Company

CERTIFICATE OF
COMPLETION

8/15/2023

This certificate is proudly presented to

Rajan Tiwari

for successful completion of **1 month internship** in
Web Development and Designing
with wonderful remarks at **OASIS INFOBYTE**

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ACKNOWLEDGEMENT

I, Mr. RAJAN TIWARI express my sincere thanks and gratitude to all those who have directly or indirectly helped me to complete my Internship Report successfully. This project work is completed with immense amount of commitment, advice, encouragement of commitment, advice, encouragement and guidance of the people and guidance of the people whom I could personally.

I would like to express my sincere gratitude to Dr. Anurag Tiwari, Head of Department, CSE, BBDITM, Lucknow for his active support and guidance during the course of my studies in this Institute.

I am also thankful to Mr. Gyanendra Dixit, & Mini Project/ Internship Coordinator Ms. Padmini Mishra for kind cooperation, help, guidance, encouragement supervision and feedbacks which enabled me to prepare a well-executed report.

Then, I specially want to acknowledge Oasis Infobyte for their tremendous support, guidance and patience. Without their kind supervision, preparing this report would be very difficult. I am also thankful to them for providing me all the relevant and available information to have a clear concept on the subjects. They provide me the guidance and counseling during my entire internship program. Their continuous and well-thought feedback enabled me to make this report a comprehensive one.

I take this opportunity to extend thanks to all who has helped me and encouraged me all throughout in bringing the best of this project.

Name- Rajan Tiwari

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ABSTRACT

The Company:

Oasis Infobyte is a company that offers IT services and consultancy, with a particular focus on developing creative solutions for businesses. We have a strong enthusiasm for technology and its potential to bring about significant changes in the world. One of the ways we're committed to nurturing the future of the industry is through our internship program. At Oasis Infobyte, we firmly believe that practical experience is essential for success in the technology sector. Our primary objective is to assist students who may be lacking fundamental skills by providing them with hands-on learning opportunities through live projects and real-world examples.

Oasis Infobyte is a vibrant and diverse community that brings together individuals with similar objectives and ultimate goals. Our main focus is on creating opportunities that span various areas, including leadership development, learning, student engagement, and fostering shared interests.

We believe in the power of leadership and its ability to drive positive change. That's why we provide platforms and resources for our community members to develop their leadership skills. Through mentorship programs, workshops, and collaborative projects, we empower individuals to take on leadership roles and make a difference in their respective fields.

Programmers and opportunities:

The Institute seamlessly integrates cutting-edge research with high-quality education. A forward-thinking curriculum provides students with the freedom to choose their courses and projects. This unique approach enables even undergraduate students to engage in ongoing research and technology advancements, a remarkable opportunity not previously seen in India. Consequently, there's a dynamic undergraduate program that coexists harmoniously with a robust postgraduate program.

Methodology:

It refers to the structured approach and set of procedures that guide the planning, execution, and management of the project. It involves defining goals and objectives, designing the website, coding, testing, and ultimately uploading the given project work on GitHub and LinkedIn. A typical web development methodology might include steps such as project scoping, requirement analysis, design,

development, testing, deployment, and ongoing maintenance. Finally, this project is implemented using HTML, CSS, JavaScript and bootstrap languages.

Key part of the report:

The project aims to enhance social welfare through integrated web platforms. It involves creating a unified online space that addresses two crucial aspects: a donation website for transparent and secure contributions to various causes and a user-friendly platform for finding accommodations like hostels and PGs. These platforms aim to bridge gaps in social support by leveraging web development to offer accessible, transparent, and convenient solutions for both charitable giving and accommodation searches.

Benefits of the institution through your report:

The Oasis Infobyte appears to offer several benefits based on your internship experience in the Web Development domain. Here are some potential advantages:

- **Hands-on Experience:** They might provide practical, hands-on learning opportunities, allowing interns to work on real projects and gain valuable experience in web development.

- **Expert Guidance:** The institution could offer mentorship from experienced professionals in the field, providing guidance and insights to help interns grow their skills.

- **Cutting-Edge Technologies:** They might expose interns to the latest tools, technologies, and frameworks used in web development, ensuring they stay updated with industry trends.

- **Networking Opportunities:** Interning at Oasis Infobyte could provide chances to network with professionals in the field, potentially opening doors for future opportunities.

- **Learning Environment:** A positive and conducive learning environment can greatly impact an intern's growth, fostering creativity and encouraging exploration in the web development domain.

- **Industry Insights:** The institution might offer insights into the workings of the industry, providing interns with a deeper understanding of the web development landscape.

- **Soft Skills Development:** Beyond technical skills, internships often help in honing soft skills like teamwork, communication, time management, and problem-solving.

1. INTRODUCTION

The main purpose for developing this project was to create a dynamic website for the Client, from which user can get the details of the college, such as about the college, contact details, address, images etc. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executive who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

1.1 Objective

The primary objective of this project is to provide a platform for knowledge dissemination and learning enhancement. These websites aim to make educational content easily accessible to a diverse audience, supporting traditional learning methods with supplementary resources that include videos, articles, quizzes, and interactive tools. They foster engagement and motivation by delivering interactive and personalized learning experiences, allowing users to learn at their own pace. Furthermore, Enhancing Social Welfare through Integrated Web Platforms often facilitate assessment and feedback mechanisms to help learners gauge their progress. Some may promote community and collaboration among users through forums and discussion boards, creating a conducive environment for peer-to-peer learning. Gathering data on user behaviour and progress is crucial for continuous improvement, and in some cases, these websites may generate revenue through subscriptions, advertisements, or other means, thereby ensuring their sustainability and growth.

1.2 Area chosen for study

The area chosen for the study is Web Development. Web development encompasses a wide array of specialized areas, each with its unique focus and expertise. Front-end development concentrates on creating visually appealing and user-friendly interfaces using HTML, CSS, JavaScript and Bootstrap, ensuring a seamless user experience. Back-end development involves managing server-side logic, databases, and the functionality of websites or web applications. Full-stack developers are proficient in both front- end and back-end, offering end-to-end development solutions. Web design focuses on aesthetics, layout, and visual elements, working in tandem with front-end developers to shape a website's look.

Web security experts safeguard websites from cyber threats, while e-commerce developers build online stores and manage payment systems. Content Management System (CMS) developers enable easy content management, and accessibility specialists ensure inclusivity for all users.

1.3 Scope of the study

The scope of studying web development is exceptionally promising in today's digital age. With the world increasingly reliant on the internet, web development skills are in high demand. As businesses, organizations, and individuals continually seek to establish and enhance their online presence, the need for skilled web developers continues to grow. Moreover, the expanding e-commerce sector, the proliferation of web and mobile apps, and the integration of emerging technologies into web development further amplify its significance. Studying web development equips individuals with the expertise to create, maintain, and innovate websites and applications, ensuring their relevance in an ever-evolving digital landscape. The versatility of web development as a career choice, with opportunities for freelancing, remote work, and specialization in areas like web security and accessibility, further broadens its scope. Given its global reach and the continuous evolution of technologies, pursuing web development studies is a strategic choice for those looking to embark on a dynamic and rewarding career path.

1.4 Problem Statement

The contemporary societal landscape faces challenges in accessing reliable platforms that seamlessly facilitate two critical aspects of social welfare: charitable donations and accommodation solutions. The absence of centralized, user-friendly web platforms catering to these needs presents a significant hurdle for individuals seeking to contribute to social causes and those in search of reliable accommodation options like hostels and PGs.

In conclusion, the problem statement for an Enhancing Social Welfare through Integrated Web Platforms is a complex and multifaceted challenge. There lacks a comprehensive donation website that offers transparency, security, and accessibility for individuals and organizations seeking to contribute to diverse causes. The ultimate goal is to bridge the gap between social welfare and technology, ensuring accessibility, transparency, and ease of use for both donors and individuals seeking accommodations.

1.5 Literature Review:

The main idea behind this work is in the coding and the layout of each and every page which ultimately decides the outcome of the web site. The Design and Accessibility of a page is related to the Front-end of the Web site, which is an experience any user will have while navigating through the web site but the Coding part of it is something the Programmer has to diligently take care of, as it will dictate the robustness and the flow of the entire website. The system provides guidance to the admin to keep track of each database of website. The admin have the access to the database of system. In an educational institute management is crucial thing. So in order to reduce the efforts of staff we are introducing our system. The system comes on with much functionality like school details, feedback, school photo gallery, Contact us etc. It provides a additional feature that scroll bar in smartphone browser. It also provide the registration feature so that manual work is reduced. This system is paperless system that mean we don't have to do advertisement with poster and banner. All over the world Internet users are using web-based systems that follows the client server paradigm. The web browser acts as the client for a web server that provides the service. These web- based systems rely on the HTTP protocol for communication, but it is a stateless protocol. Over the last few years, the web has shifted from being a collection of pages containing static information to a dynamic and fully interactive platform. Where the Internet was once used only as an information repository, today it powers complex web applications, developed both to replace programs that used to run locally on a user's computer, and to provide whole new functionality that is possible only on the functionality website. Most web applications handle user authentication via the concept of web sessions. These allow users to use a web application without having to enter their login credentials for every action taken. Unfortunately, web sessions have many security weaknesses. OWASP, a leading organization in the field of web application security, rates Broken Authentication as the third most important web application. A problem is that users of a web application have to trust the developer of the application to take the necessary security precautions. The web developer, on the other hand, may consider such precautions to be too difficult or too costly, leaving the users unprotected. Moreover, the web developer might not even know that his web application contains security vulnerabilities. To enable users to protect themselves against session attacks, regardless of the web applications being secure, a client-side tool offering protection against these attacks is needed.

Studies examining accommodation search platforms revealed the significance of user experience in determining the effectiveness of such websites. Research by **Lee and Park (2018)** highlighted that user-friendly interfaces, comprehensive information, and verified reviews significantly influence users' choices when searching for accommodations online. Moreover, the study emphasized the role of accessibility and reliability in these platforms for better decision-making.

The Numerous studies have highlighted the increasing trend of online donations and their impact on charitable giving. Research by **Smith and McLeod (2019)** emphasized the convenience, accessibility, and trustworthiness associated with online donation platforms, leading to a surge in contributions across various causes and demographics. Similarly, **Mike Johnson et al. (2020)** underscored the importance of transparent and user-friendly interfaces in online platforms to boost donation rates and encourage continued engagement.

Research by **Bansal Gupta et al. (2019)** delved into the factors influencing user trust and engagement in online platforms. The study highlighted the critical role of security measures, transparent processes, and clear communication in fostering trust among users. Addressing these factors is crucial in encouraging continued participation in donation and accommodation search platforms.

Several studies have emphasized the importance of evaluating the impact of web-based initiatives on social welfare. **Alvarez and Diaz (2020)** conducted a comprehensive impact assessment of similar integrated platforms, focusing on their effectiveness in addressing community needs. Their findings indicated measurable positive impacts on social welfare metrics, including increased participation in donations and improved access to reliable accommodations.

There's a growing interest in integrated platforms that cater to multiple needs within one interface. **Chen and Wang (2021)** explored the impact of integrated web solutions on social welfare, emphasizing their potential to streamline services and enhance user experiences. Their findings indicated that integrated platforms have the potential to significantly benefit communities by offering convenience and accessibility across different services.

2. INDUSTRY/COMPANY OVERVIEW

Oasis Infobyte is a company specializing in IT services and consultancy, with a strong emphasis on crafting innovative solutions tailored to businesses. With a deep passion for technology and its transformative potential, we're dedicated to fostering the next generation of tech professionals through our internship program. At Oasis Infobyte, we firmly believe that practical experience is the linchpin of success in the tech industry. Our primary mission is to support students in honing essential skills by providing hands-on learning opportunities via live projects and real-world applications.

Oasis Infobyte functions as a dynamic and inclusive community, uniting like-minded individuals with shared goals. We concentrate on creating diverse opportunities encompassing leadership development, learning, student engagement, and the cultivation of common interests. We place our trust in the potency of leadership and its capacity to instigate positive change. This is why we offer platforms and resources for community members to cultivate their leadership abilities. Through mentorship programs, workshops, and collaborative endeavors, we empower individuals to assume leadership roles and drive meaningful impact within their respective domains.

Software development is an iterative process, and the mission includes continually improving software solutions. This entails gathering feedback, identifying areas for enhancement, and implementing updates to make the software more efficient, user-friendly, and reliable. Continuous improvement also involves staying up to date with the latest technologies, tools, and industry trends.

The vision of software development is to create innovative solutions that push the boundaries of technology. This involves leveraging emerging technologies, exploring new ideas, and developing software that brings novel approaches to solving problems and improving the lives of users.

3. SYSTEM SPECIFICATIONS

Software Requirement Specification: The Software Requirements Specification is produced at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by establishing a complete information description, a detailed functional and behavioural description, an indication of performance requirements and design constraints, appropriate validation criteria.

Disk Space: A minimum base installation requires at least 500 MB of disk space but you should assume that your actual disk space will be somewhat higher. For example, if you upload file attachments and images for articles, the actual disk space for your knowledge base could easily be 1GB or more (exclusive of database content, media, backups and other files). The total file size of your Node JS installation will depend on what you add to your knowledge base, but core files alone will take up approximately 800 to 1500 MB uncompressed. The exact size depends on the edition of Node JS you have installed.

Browsers: All modern browsers are supported (IE7+, Firefox, Safari, Google Chrome, Opera) that support CSS and JavaScript.

User System Requirements:

• Operating System: Windows, Mac or Linux

• Web Browser: All industry standard web browsers (Internet Explorer, Mozilla Firefox, Google Chrome, Apple Safari)

• IDE: VS(Virtual Studio) code.

4. LEARNED SKILLS

HTML (Hypertext Markup Language), CSS (Cascading Style Sheets), and JavaScript are the foundational technologies that power the web. They work together to create interactive and visually appealing web pages. HTML forms the backbone of web content, providing the structure and semantics, while CSS enhances the presentation, and JavaScript adds interactivity. These three technologies work harmoniously to create a rich web experience. When a user visits a web page, the browser interprets the HTML to construct the page's structure, then applies the CSS styles to make it visually appealing. JavaScript, when present, enables dynamic behavior, such as validating form data, loading content on demand, or responding to user clicks. This trio underpins almost every website you encounter, from simple blogs to complex web applications.

In recent years, the web development landscape has evolved with the advent of modern frameworks and libraries. These tools streamline development and improve performance while maintaining the separation of concerns between HTML, CSS, and JavaScript.

HTML, CSS, and JavaScript are the cornerstones of web development. HTML defines the structure and content, CSS enhances the visual presentation, and JavaScript adds interactivity and dynamic behavior. This trio powers the modern web, allowing developers to create a wide range of online experiences, from static websites to interactive web applications. As the web continues to evolve, these technologies will remain fundamental, and understanding how they work together is key to becoming a proficient web developer

HTML:

 The first pillar of web development, is a markup language that defines the structure and content of a web page. It consists of elements like headings, paragraphs, links, images, and more, which are enclosed in tags. HTML tags describe the purpose of each element and how they should be displayed. For example, the "<p>" tag indicates a paragraph, while the "<a>" tag denotes a hyperlink. HTML is the essential building block of web pages, ensuring content is organized and accessible.

CSS:

CSS complements HTML by handling the presentation and styling of web content. Cascading Style Sheets provide a means to define how HTML elements should appear on the screen, including aspects

like fonts, colors, spacing, and layout. CSS allows web developers to separate the content from its visual presentation, enhancing maintainability and flexibility. Selectors in CSS enable precise targeting of HTML elements, making it possible to apply specific styles to elements based on their class, ID, or element type. This separation of structure (HTML) and style (CSS) is fundamental to modern web design.

JavaScript:

The third component, is a dynamic programming language that adds interactivity to web pages. While HTML and CSS handle the static content and presentation, JavaScript makes websites cometo life by allowing for user interactions, animations, and real-time updates. Developers can use JavaScript to manipulate the Document Object Model (DOM), which represents the structure of a web page, allowing them to change content, respond to user actions, and fetch data from servers. Itis a versatile language that can be used for creating games, interactive forms, and much more.

Bootstrap:

Bootstrap is a powerful front-end framework for web development, renowned for its efficiency in creating responsive and mobile-first websites and web applications. Developed by Twitter, it's an open-source toolkit that provides a collection of pre-built design elements, components, and CSS/JavaScript libraries, simplifying the process of creating consistent, visually appealing, and functional interfaces across different devices and screen sizes.

5. MODULES

Module -1: Creating a Donation Website

The Sukoon Foundation's website is a digital haven, embodying our commitment to fostering hope and transforming lives. Designed for seamless navigation, it welcomes visitors with compelling visuals and stories showcasing the profound impact of our initiatives. Our mission, values, and dedication to transparency are prominently featured, ensuring clarity on how each donation contributes to our causes.

Fig.4.1

Payment Gateway

A The payment gateway integrated into the Sukoon Foundation's website serves as a secure and efficient channel for accepting donations. This gateway facilitates seamless online transactions, enabling supporters to contribute to the foundation's initiatives with ease. The user experience is streamlined, guiding donors through a straightforward process that includes entering payment details, selecting donation amounts, and confirming transactions. This gateway prioritizes simplicity and reliability, aiming to minimize any friction during the donation process.

The payment gateway integrated into the Sukoon Foundation's website serves as a trustworthy and efficient tool, empowering individuals to contribute seamlessly towards creating positive change and supporting impactful initiatives.
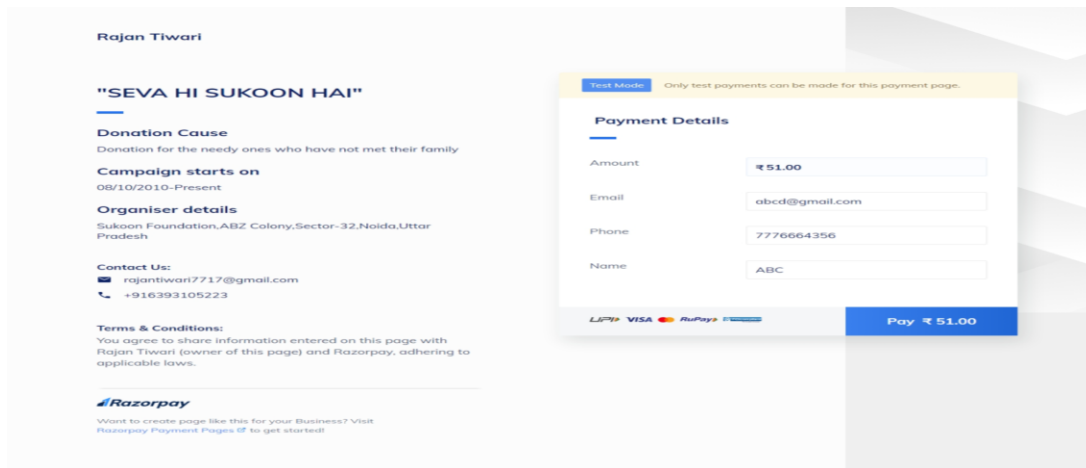
Fig.4.2

Module -2 : Creating HostelLife Website

The website, "HostelLife" is an informative application which is providing the information based in various cities. Mainly it will give a list of available rooms for rent in their required budget. This application gives detailed information about all the PGs around different cities and, they are all sorted according to the area, so that search can be made easy. Thus, allowing the users to search it according to their need, there are no specific applications on this domain. The website, "HOSTELLIFE" is an informative application which is providing the information based in various cities. Mainly it will give a list of available rooms for rent in their required budget. This application gives detailed information about all the PGs around different cities and, they are all sorted according to the area, so that search can be made easy. Thus, allowing the users to search it according to their need, there are no specific applications on this domain.
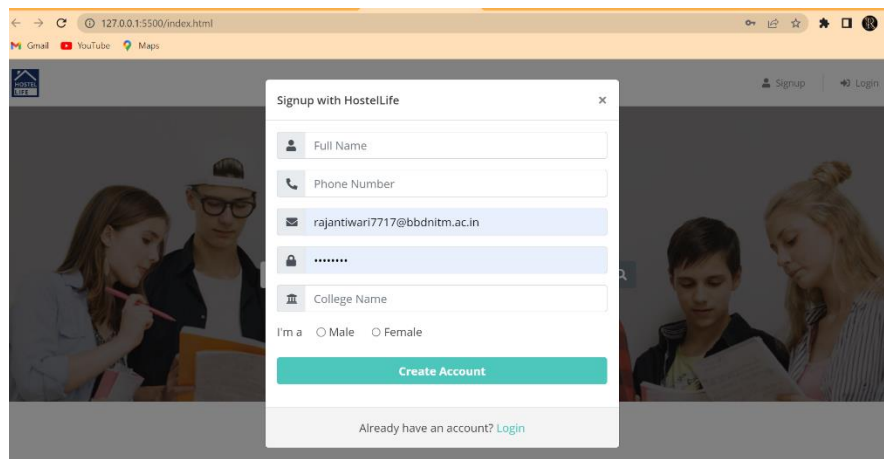

Fig.4.3

Module-3: Creating a Quiz Game on web development

Creating a quiz game using HTML, CSS, and JavaScript is a fantastic way to blend front-end development skills with interactive functionality. Through this project, you'll craft an engaging user interface, structure questions, and implement logic to assess user responses dynamically. This combination allows you to create an interactive learning or assessment tool that leverages the power of web technologies. Whether for educational purposes or just for fun, building a quiz system provides a hands-on way to deepen your understanding of these foundational web development languages.
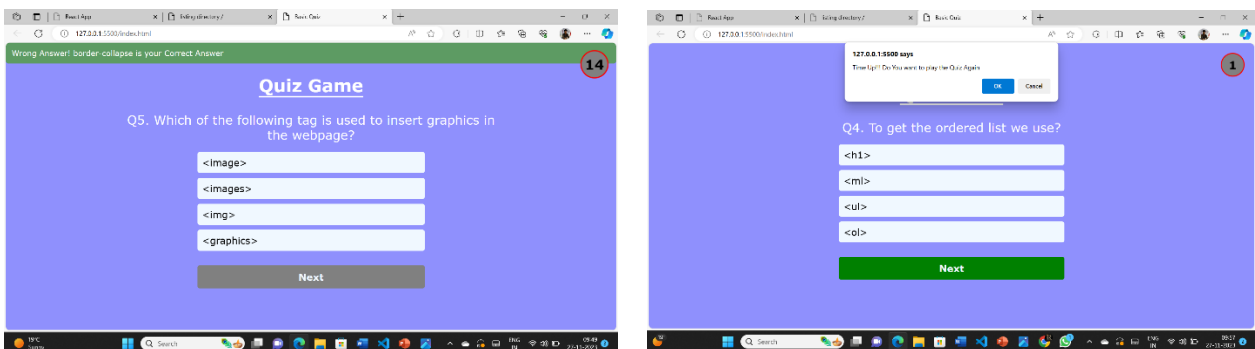

Fig.4.4

Module -4: Creating a Portfolio website

A portfolio website is primarily designed to showcase an individual's or a company's work, achievements, and skills. It serves as a digital resume, allowing artists, designers, photographers, and businesses to present their best projects, products, or services. Visitors can view the portfolio to assess the quality and style of work, making it a valuable tool for attracting potential clients, employers, or collaborators. Portfolio websites come in all shapes and sizes, and can vary depending on your discipline. Ultimately, whether you're a designer, photographer, writer or digital artist, the best portfolio websites are a true reflection of your projects, passions and personality.
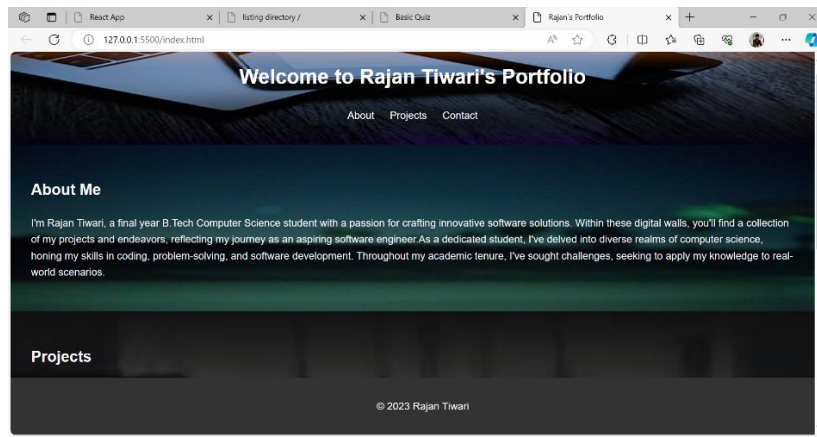
Fig.4.5

Module -5: Creating Simple Scientific Calculator

This is a simple scientific calculator designed for precision and ease of use, this calculator is your reliable tool for solving complex mathematical equations with simplicity. It offers a range of scientific functions, from trigonometry to logarithms, empowering you to tackle intricate calculations effortlessly. Whether you're a student, professional, or enthusiast, this calculator aims to simplify your mathematical tasks, providing accuracy and efficiency at your fingertips. Explore its intuitive interface and comprehensive functions, making even the most challenging computations accessible. Embrace the convenience and accuracy this tool offers as you navigate through various scientific calculations seamlessly."
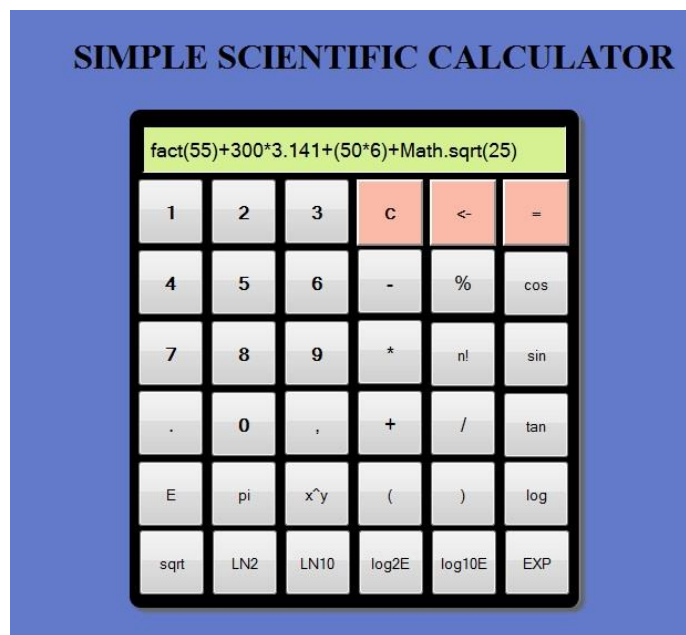

Fig.4.6

6. RESULT

The result of "Enhancing Social Welfare through Integrated Web Platforms" website project can be assessed through several dimensions. First and foremost, The integration of web platforms has emerged as a pivotal tool in augmenting social welfare across diverse communities. This project report delves into the multifaceted impact of integrated web platforms in fostering social welfare and community development. One key facet is their ability to centralize access to essential services, ranging from healthcare and education to employment opportunities. By consolidating these resources, marginalized communities gain equitable access, transcending geographical and socio-economic barriers.

HostelLife is a Customize and user-friendly website for Hostels and PGs. It has been designed to automate, manage, and look after the over- all processing of even very large Hostels and PGs. It can manage Enquiry details, Customer Details, Payment Details etc. HostelLife is a Customized and user-friendly website for Hostels and PGs which provide information about the Hostels and PGs rooms and services. It provides the facility of online Hostels and PGs booking and room enquiry from its website. HostelLife is offering a maximum of stability, cost-effectiveness, and usability. It provides the most flexible and adaptable standards management system solutions for Hostels and PGs.

A Donation website serves as a digital nexus, bridging donors and charitable organizations, transcending geographical boundaries and time constraints. It empowers individuals to contribute to causes aligned with their values, fostering a sense of purpose and fulfillment. The convenience and accessibility offered by these platforms greatly amplify the reach of charitable initiatives, enabling a global community to unite in support of various missions.

In conclusion, the integration of web platforms represents a pivotal advancement in augmenting social welfare. The amalgamation of services, community engagement, and user-centric design play instrumental roles in fostering inclusivity, empowerment, and sustainable development within societies. As technology continues to evolve, these platforms stand as catalysts for positive societal transformation, underscoring their pivotal role in shaping a more equitable and empowered world.

7. CONCLUSION

Our project is only a humble venture to satisfy the needs to manage their project work. Several user-friendly coding have also adopted. This package shall prove to be a powerful package in satisfyingall the requirements of the client that is College. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

At the end it is concluded that we have made effort on following points…

• A description of the background and context of the project and its relation to work already done in the area.

• Made statement of the aims and objectives of the project.

• The description of Purpose, Scope, and applicability.

• We define the problem on which we are working in the project.

• We describe the requirement Specifications of the system and the actions that can be done on these things.

• We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.

• We included features and operations in detail, including screen layouts.

• We designed user interface and security issues related to system.

• Finally the system is implemented and tested according to test cases.

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