

CSR Connect: A Hub for Corporate Social Responsibility

A PROJECT REPORT

Submitted by,

**PAVAN E R -- 20201CSE0571
SANGAMESH – 20201CSE0590
KISHOR KUMAR KR – 20201CSE0585**

Under the guidance of,

Mr. JERRIN JOE FRANCIS

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING.

At



**SCHOOL OF COMPUTER SCIENCE & ENGINEERING
PRESIDENCY UNIVERSITY
BENGALURU
JANUARY 2024**

PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the Project report "**CSR CONNECT: A HUB FOR CORPORATE SOCIAL RESPONSIBILITY**" being submitted by "**PAVAN E R, SANGAMESH, KISHOR KUMAR KR**" bearing roll number(s) "**20201CSE0571, 20201CSE0590, 20201CSE0585**" in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering is a bonafide work carried out under my supervision.

Mr. JERRIN JOE FRANCIS
Assistant Professor
School of CSE
Presidency University

Dr. PALLAVI R
Associate Professor & HOD
School of CSE
Presidency University

Dr. C. KALAIARASAN
Associate Dean
School of CSE&IS
Presidency University

Dr. SHAKKEERA L
Associate Dean
School of CSE&IS
Presidency University

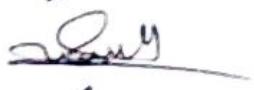
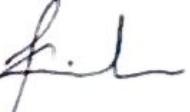
Dr. MD.SAMEERUDDIN KHAN
Dean
School of CSE&IS
Presidency University

PRESIDENCY UNIVERSITY
SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **CSR CONNECT: A HUB FOR CORPORATE SOCIAL RESPONSIBILITY** in partial fulfillment for the award of Degree of **Bachelor of Technology in Computer Science and Engineering**, is a record of our investigations carried under the guidance of **Mr. Jerrin Joe Francis, Assistant Professor, School of Computer Science And Engineering, Presidency University, Bengaluru.**

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

Sl.no	Name	Roll number	Signature
1	Pavan E R	20201CSE0571	
2	Sangamesh	20201CSE0590	
3	Kishor Kumar K R	20201CSE0585	

ABSTRACT

The importance of Corporate Social Responsibility (CSR) has increased in the fast-paced commercial environment of today. Although stand-alone programs are admirable, their effectiveness is frequently hampered by a lack of funding and public awareness, particularly in distant areas or with larger ventures. This study acknowledges this gap and offers a bold solution: The CSR Connect, also known as the Common CSR Portal

By building a single platform, this innovative web application seeks to change CSR dynamics. Crossing barriers, CSR Connect brings together various companies and individuals to increase their combined effect on society. Through intentional resource pooling, inherent limits are addressed, guaranteeing a significant and comprehensive contribution to the well-being of the community.

CSR Connect extends beyond traditional channels. Corporates and individuals may easily find, interact with, and take part in ongoing social activities thanks to this dynamic nexus. Here, connectivity and shared accountability are essential since the platform makes use of cutting-edge technology to improve coordination and allocate resources as efficiently as possible. CSR Connect becomes more than just a platform; it becomes a revolutionary force that heralds good change and helps communities envision a better future.

CSR Connect, propelled by creativity, cooperation, and empathy, aspires to a society in which group endeavors transform the field of social responsibility. The platform's features, effects, and revolutionary path are covered in more detail in later chapters, which also invite stakeholders to join the trip toward a future of shared responsibility and beneficial societal influence.

ACKNOWLEDGEMENT

First of all, we are indebted to the **GOD ALMIGHTY** for allowing me to excel in our efforts to complete this project on time.

We express our sincere thanks to our respected **Dr. Md. Sameeruddin Khan**, Dean, School of Computer Science and Engineering, Presidency University for getting us permission to undergo the project.

We record our heartfelt gratitude to our beloved Associate Deans **Dr. Kalaiarasan C** and **Dr. Shakkeera L**, School of Computer Science and Engineering, Presidency University, and **Dr. Pallavi R** Head of the Department, School of Computer Science and Engineering, Presidency University for rendering timely help for the successful completion of this project.

We are greatly indebted to our guide **Mr. JERRIN JOE FRANCIS, Assistant Professor**, School of Computer Science and Engineering, Presidency University for his inspirational guidance, and valuable suggestions and for providing us a chance to express our technical capabilities in every respect for the completion of the project work.

We would like to convey our gratitude and heartfelt thanks to the University Project-II Coordinators **Dr. Sanjeev P. Kaulgud, Dr. Mrutyunjaya MS**, and also the department Project Coordinators **Mr Zia Ur Rahman, Mr. Peniel John Whistely**.

We thank our family and friends for the strong support and inspiration they have provided us in bringing out this project.

Pavan E R – 20201CSE0571

Sangamesh – 20201CSE0590

Kishor Kumar K R – 20201CSE0585

LIST OF FIGURES

S.No	Figure Number	Caption	Page No
1	Figure 6.1	Architecture Diagram	24
2	Figure 7.1	Gantt Chart	34
3	Figure A	Home Page	49
4	Figure B	About Page	49
5	Figure C	Service Page	50
6	Figure D	Admin Login Page	50
7	Figure E	Type Page	51
8	Figure F	Environmental Page	51
9	Figure G	User Login Page	52
10	Figure H	Staff Login Page	52
11	Figure I	New User Page	53
12	Figure J	Contact Page	53
13	Figure K	Admin Login Page	54
14	Figure L	New Staff Page	54
15	Figure M	Admin Views User Page	55
16	Figure N	Admin Views Staff Page	55

TABLE OF CONTENTS

CHAPTER NO.	TITLE	PAGE NO.
	CERTIFICATION	i
	DECLARATION	ii
	ABSTRACT	iii
	ACKNOWLEDGMENT	iv
1.	CHAPTER – 1	
	1.1 INTRODUCTION	1
2	CHAPTER – 2	
	LITERATURE SURVEY	3
3	CHAPTER – 3	
	RESEARCH GAPS OF EXISTING METHODS	8
4	CHAPTER – 4	
	PROPOSED METHODOLOGY	9
	4.1 Hardware.	
	4.1.1 RAM	11
	4.1.2 ROM	12
	4.2 Software.	
	4.2.1 Python	14
	4.2.2 HTML	15
	4.2.3 CSS	17
	4.2.4 Firebase Cloud	18
	4.2.5 Flask	20
5	CHAPTER – 5	
	OBJECTIVES	22
6	CHAPTER – 6	
	SYSTEM DESIGN AND IMPLEMENTATION	24

7	CHAPTER –7	
	TIMELINE FOR EXECUTION OF PROJECT (Gantt chart)	34
8	CHAPTER – 8	
	OUTCOMES	36
9	CHAPTER – 9	
	RESULTS AND DISCUSSIONS	38
10	CHAPTER – 10	
	CONCLUSION	40
11	REFERENCES	41
12	APPENDIX – A	
	PSEUDOCODE	43
13	APPENDIX – B	
	OUTPUTS	49
14	APPENDIX – C	56

CHAPTER-1

INTRODUCTION

In the rapidly evolving landscape of corporate engagement, the essence of Corporate Social Responsibility (CSR) has become integral to the ethos of responsible business practices. Presently, organizations undertake CSR activities independently, hosting social events that, while commendable, often face inherent challenges. The primary impediments lie in resource constraints and budget limitations, preventing these initiatives from achieving their full potential, especially on a grand scale or in remote regions. Additionally, a considerable gap exists as many corporations remain unaware of diverse CSR events, missing opportunities for collective societal contribution. In response to these intricacies, our ambitious project sets forth the vision of a Common CSR Portal. Rooted in cutting-edge web app development, this platform aims to dismantle barriers and bring together various organizations and individuals, fostering a collaborative space for collective, impactful CSR initiatives. This introduction marks the genesis of a transformative journey, where technology converges with corporate responsibility to shape a more connected and socially conscious future. In our pursuit of redefining the dynamics of Corporate Social Responsibility (CSR), CSR Connect emerges as a beacon for transformative change. This initiative seeks to create a centralized platform that transcends boundaries, uniting a diverse spectrum of organizations and individuals, thereby amplifying their collective impact on society.

By strategically pooling resources, CSR Connect addresses the inherent limitations that hinder the execution of large-scale or remote CSR activities. This collaborative approach ensures a more profound and far-reaching contribution to societal well-being. The CSR Connect portal serves as a dynamic nexus, seamlessly connecting corporates and individuals. It provides a gateway for them to discover, engage, and actively participate in ongoing social events. This interconnectedness fosters a sense of shared responsibility, cultivating a collaborative ethos that goes beyond individual efforts. Utilizing cutting-edge technology, CSR Connect goes beyond conventional platforms. Through streamlined coordination and optimized resource allocation, participants are empowered to contribute effectively to a common social mission. The platform becomes a catalyst for change, enhancing the efficiency of CSR endeavors. CSR Connect is not merely a platform; it is a transformative force. It signifies a catalyst for positive

change, shaping a brighter future for communities and society at large. By bringing together innovation, collaboration, and compassion, CSR Connect envisions a world where collective efforts redefine the landscape of social responsibility. In the chapters that follow, we delve deeper into the intricacies of CSR Connect, exploring its features, impact, and the transformative journey it embarks upon. As we unfold the layers of this visionary project, we invite you to join us on this transformative odyssey, where CSR is not just a responsibility but a shared commitment to shaping a future of positive societal influence.

CHAPTER-2

LITERATURE SURVEY

[1]. A proposed methodological framework for the evaluation of corporate social responsibility

Authors: Konstantin G. Aravossis, and Nikolaos A. Panayiotou in 2006.

Review: This methodological framework can be followed by companies to implement an effective Corporate Social Responsibility (CSR) program in all areas of their operation. The framework consists of three distinct stages: Analysis, Execution, and Performance Evaluation. The suggested framework permits the development of corporate CSR programs adapted to the unique characteristics of each sector and company, emphasizing different stages according to organizational activities, missions, and the resources that can be utilized. The framework includes weighted performance indicators relating to a company's impact on different areas of activity such as the environment, the community, the human capital, the shareholders, and the marketplace

[2]. Corporate Social Responsibility in India – A Way to Socio-Economic Development.

Author: Dr Lakshmana in 2011

Review: It provides a comprehensive analysis of Corporate Social Responsibility (CSR) in India and how it can be used as a tool for socio-economic development. The author has used a wide range of sources to support his arguments. The paper highlights the need for companies to go beyond their traditional role of profit-making and contribute to the welfare of society. The paper also discusses the various initiatives taken by the Indian government to promote CSR and the challenges faced by companies in implementing CSR programs.

The paper provides a detailed analysis of the various aspects of CSR in India. The author has used a wide range of sources to support his arguments. The paper highlights the importance of CSR in promoting socio-economic development in India. The author has also provided a detailed analysis of the various initiatives taken by the Indian government to promote CSR.

[3]. Impact of corporate social responsibility on corporate reputation: Indian Scenario.

Author: Miklesh Prasad Yadav in 2014

Review: This article examines the impact of Corporate Social Responsibility (CSR) on the reputation of Indian companies. The author has used a questionnaire survey to collect data from 100 rational consumers on their perception of CSR toward business reputation. The study confirms that socially responsible firms maintain ethics and earn a reputation that improves financial performance. The paper provides a comprehensive analysis of the relationship between CSR and corporate reputation in India. The author has used a wide range of sources to support his arguments. The paper highlights the importance of CSR in promoting a positive image of the company among consumers. The paper also highlights the importance of CSR in improving the financial performance of the company.

[4]. Corporate Social Responsibility (CSR) in India: A Review

Author: Sudeshna Saha and Neelmani Jaysawal, in 2015

Review: The paper provides a comprehensive and structured approach to evaluate CSR programs. The authors have suggested a framework that can be followed by companies to implement an effective CSR program in all areas of their operations. The framework consists of three distinct stages: Analysis, Execution, and Performance Evaluation. The suggested framework permits the development of corporate CSR programs adapted to the unique characteristics of each sector and company, emphasizing different stages according to organizational activities, missions, and the resources that can be utilized. The framework includes weighted performance indicators relating to a company's impact on different areas of activity such as the environment, the community, the human capital, the shareholders, and the marketplace (customers and suppliers).

[5]. The Role of Corporate Social Responsibility in India.

Author: Nidhi Tandon Simran Kaur in 2017

Review: The paper provides a detailed analysis of the various aspects of CSR in India. The authors have used a wide range of sources to support their arguments. The paper highlights the importance of CSR in promoting socio-economic development in India. The authors have also provided a detailed analysis of the various initiatives taken by the Indian government to promote CSR.

[6]. Corporate Governance and Corporate Social Responsibility: The Indian Context.

Author: Badur Raja Mannar in 2017

Review: In this, the authors have used a questionnaire survey to collect data from 100 rational consumers on their perception of CSR toward business reputation. The study confirms that socially responsible firms maintain ethics and earn a reputation that improves financial performance. The book explores the theoretical and empirical issues relating to the interaction between corporate governance and CSR activities undertaken by Indian companies. It presents a highly detailed view of the evolution of CSR and its nexus with corporate governance. The findings of this study are unique in drawing from a unified framework of Indian corporate governance structure and corporate engagement in CSR. The book's scope is both academic and practical; the research methodology developed and utilized is useful for researchers, while the implications and the selection of variables provide useful information for practitioners and stakeholders. Finally, although it focuses on large Indian companies, the findings can also be applied to research on other emerging economies.

[7]. A study of corporate social responsibility (CSR) initiatives of selected organizations in and around Pune city, state of Maharashtra, India

Author: Mohammad Amir in 2019

Review: The paper is limited in its scope as it only focuses on the selected organizations in and around Pune, India. It provides a comprehensive analysis of the Corporate Social Responsibility (CSR) practices of selected organizations in and around Pune, India. The study

aims to understand the perceptions of officials regarding the CSR concept, the areas where they have initiated their CSR practices, their CSR approaches, and the major challenges faced by organizations in the implementation of CSR activities.

[8]. A Comparative Study of Corporate Social Responsibility Practices in India

Author: Dr Kiran Kakade in 2019

Review: The article "A Comparative Study of Corporate Social Responsibility Practices in India" by Dr. Kiran Kakade, published in the RESEARCH REVIEW International Journal of Multidisciplinary, aims to explore the position of Indian companies regarding corporate social responsibility (CSR) and to study CSR as a part of their business strategy. The study provides insights into the CSR practices of companies in India, focusing on their approach to balancing financial, social, and ecological goals.

[9]. A literature review: Corporate social responsibility practices of Indian companies.

Author: Vethirajan. C, Ariyadevi . N, J.Antony Nancy, S.Jeya Chitra in 2020

Review: It provides a comprehensive literature review of the CSR practices of Indian companies. The study highlights the shift in CSR practices from mere philanthropy to a more impactful approach that addresses social and environmental issues while contributing to the company's core business strategy. The article emphasizes the importance of CSR in building a good company reputation, attracting and retaining top talent, and influencing customer engagement. The study also highlights the role of the board of directors in framing the company's CSR strategy. Overall, the article provides valuable insights into the CSR practices of Indian companies and their impact on the business environment.

[10]. Role of Sustainable Development Goals and Corporate Social Responsibility in India's Growth: Opportunities and Challenges.

Author: Sunita Pachar, Rubee Singh in 2021

Review: It emphasizes the alignment between CSR practices and the 17 SDGs, particularly in areas such as poverty eradication, education, healthcare, environmental protection, and sustainable energy. The article suggests that businesses can leverage their expertise and resources to make a positive impact on society while also enhancing their own business goals. The study highlights the importance of collaboration between the government, private sector, and civil society to achieve the SDGs and create a better future for everyone. Overall, the article provides valuable insights into the role of CSR and SDGs in India's growth and development.

CHAPTER-3

RESEARCH GAPS OF EXISTING METHODS

Research Gaps :

1. Limited Accessibility and Lack of Specific Details: A thorough analysis and in-depth evaluation of the content, methodology, and conclusions are hampered by the fact that many articles are not easily accessible and do not provide enough specific details in the search results that are provided.
2. Lack of Empirical Support for Some Studies: Some studies raise doubts about their practical application because they do not offer empirical support for their analysis or the efficacy of CSR programs.
3. Restricted Scope and Narrow Focus: Research findings from some studies, especially those with a confined scope (such as the Pune study), may not be generalizable to a larger national or worldwide setting.
4. Restricted Applicability Worldwide: Several publications only address the Indian setting, with little advice on how to carry out CSR initiatives elsewhere.
5. Contradictory or Inconclusive Results: The applicability and generalizability of the findings are limited in situations when the results are contradictory or poorly defined, such as the effect of corporate social responsibility (CSR) on business reputation.

CHAPTER-4

PROPOSED METHODOLOGY

The concept of Corporate Social Responsibility (CSR) has gained significant traction in recent years, but the landscape is fraught with challenges. Organizations often face difficulties in finding suitable CSR opportunities that align with their goals and values. The current CSR landscape is fragmented, with limited collaboration between different entities, leading to inefficient resource utilization and expertise sharing. This disjointed approach hampers the potential impact of CSR initiatives, limiting their reach and effectiveness.

CSR Connect:

In response to these challenges, the proposed solution is CSR Connect, a centralized online platform designed to bridge the gap between organizations and individuals keen on participating in impactful CSR initiatives. This platform aims to streamline the process of identifying, participating in, and managing CSR projects by bringing all stakeholders together in a cohesive and collaborative environment.

Centralized Platform:

The first step in CSR Connect involves building a single online portal dedicated to CSR engagement. This portal will serve as a comprehensive listing of CSR projects, events, and volunteer opportunities. Organizations will have the ability to create profiles, showcase their initiatives, and attract potential volunteers and partners. This centralization simplifies the process for businesses to communicate their CSR needs and for individuals to find opportunities that resonate with their interests and skills.

Enhanced Visibility:

To ensure that CSR opportunities reach a broader audience, CSR Connect will incorporate features such as advanced search options, filters, and personalized recommendations. Targeted outreach campaigns will be employed to attract potential volunteers and partners, ensuring that each CSR opportunity gains maximum visibility and participation.

Resource Optimization:

A critical aspect of CSR Connect is the facilitation of resource sharing and collaboration between organizations. By pooling expertise, volunteers, and funding, the platform aims to broaden the impact of CSR initiatives. This approach not only reduces duplication of effort but also maximizes the utilization of available resources.

Streamlined Collaboration:

CSR Connect will provide robust communication tools to enable seamless interaction between organizations and volunteers. This includes features for project management, progress tracking, and fostering knowledge sharing and the exchange of best practices. These tools are designed to make collaboration more efficient and effective, ensuring that CSR initiatives are well-coordinated and achieve their intended outcomes.

Impactful Social Change:

At its core, CSR Connect is about connecting diverse stakeholders to address crucial social and environmental challenges. By promoting collective action and coordinated efforts, the platform aims to drive positive change and contribute to a more sustainable and equitable future.

Benefits of CSR Connect:

For businesses, CSR Connect offers the opportunity to improve their brand image through visible CSR engagement and increased employee satisfaction. Access to a wider pool of volunteer talent and expertise, along with enhanced collaboration and resource sharing, makes CSR projects more effective. For individuals, the platform provides easy access to a variety of CSR opportunities, allowing them to volunteer in areas that match their skills and interests. This creates an opportunity for individuals to connect with like-minded entities and contribute meaningfully to social impact.

Role of Technology in CSR Connect:

Technology is the backbone of CSR Connect, enabling the digital connection of people and resources. It streamlines communication and collaboration processes and provides valuable data and analytics for informed decision-making. Additionally, technology is instrumental in

measuring the impact of CSR initiatives, ensuring that stakeholders have a clear understanding of the outcomes of their efforts.

At last - The Potential Impact of CSR Connect:

CSR Connect has the potential to revolutionize the CSR landscape by fostering collective action and driving positive change. By addressing the challenges of fragmentation and inefficient resource use, CSR Connect paves the way for more impactful and sustainable CSR initiatives. Its emphasis on stronger collaboration and knowledge sharing sets the stage for a more connected and engaged community, working collaboratively towards a better future.

1. Hardware Components

2. Software Components

2.1 Hardware Components:

2.1.1 RAM:

RAM is crucial for web development in multiple ways, beyond just ensuring the Common CSR Portal functions smoothly. Here's how:

1. Running multiple programs and tools: Web development involves working with various software simultaneously, like text editors, code compilers, design tools, browsers, and databases. Ample RAM allows these programs to run concurrently without lag or slowdown, boosting productivity.
2. Hosting large files and projects: Complex web projects often involve handling large files, images, and multimedia elements. Sufficient RAM ensures smooth manipulation and editing of these resources, preventing crashes or errors from memory overflows.
3. Faster build times and deployments: Building and deploying web applications involves compiling code, running scripts, and transferring data. More RAM facilitates these processes, significantly reducing build times and streamlining deployment workflows.

4. Improved browser performance: When testing and debugging web projects, developers rely heavily on browsers with multiple tabs open. Ample RAM prevents browser slowdowns, enabling responsive testing and efficient troubleshooting.

5. Enhanced multitasking and collaboration: Web development often involves collaboration with designers, content creators, and other stakeholders. Sufficient RAM allows seamless switching between various tasks and tools, ensuring smooth communication and efficient collaboration.

Here's how RAM works in web development:

Data loading: When you open a website, click a button, or run a web development tool, the relevant data gets copied from the storage (hard drive or SSD) into RAM. This data could be anything from images and scripts to code snippets and temporary files.

Fast access: Unlike storage, which retrieves data sequentially, RAM allows instant access to any piece of information it holds. This makes it incredibly fast, ensuring smooth website loading, responsive tool performance, and quick switching between tasks.

Multitasking: With multiple programs and tabs open, your RAM juggles various data sets simultaneously. Each program gets its own dedicated space on the virtual desk, allowing it to run independently without interference.

Temporary storage: Once you close a program or stop working on a website, the data held in RAM gets cleared and becomes available for other tasks. This temporary nature ensures efficient memory utilization and prevents your system from getting bogged down.

2.1.2 ROM:

ROM, or Read-Only Memory, is a type of computer storage that, as the name suggests, can only be read from, not written to. This means the data stored in ROM is permanent and remains even when the device is turned off. Unlike RAM (Random Access Memory), which is volatile and loses its data when the power is off, ROM retains its contents indefinitely.

Importance of ROM

1. Essential Startup Instructions: ROM stores the firmware, which are the basic instructions needed for a computer or device to start up and operate. This includes code for initializing hardware components, running basic diagnostics, and loading the operating system.
2. Permanent Data: ROM also stores essential data that shouldn't be changed, such as language settings, configuration options, and security keys. This ensures these aspects remain consistent and secure.
3. Durability and Reliability: Due to its non-volatile nature, ROM is highly durable and resistant to corruption or data loss. This makes it ideal for storing critical system information.
4. Programmable ROM: While traditional ROM is pre-programmed during manufacturing, some types like EPROM and EEPROM allow limited rewriting for updates or adjustments.
5. Speed: ROM is generally slower than RAM when it comes to accessing data. However, its speed is sufficient for storing firmware and essential data that isn't constantly accessed.
6. Cost: ROM is typically cheaper than RAM because it's simpler to manufacture and requires less power to operate.

Here's how ROM works in web development:

ROM's function: ROM stands for Read Only Memory. It's a type of non-volatile memory, meaning it retains its data even when the device is turned off. This makes it ideal for storing critical system files that shouldn't be tampered with or accidentally deleted.

ROM and web development: ROM does not play a direct role in web development. Web development deals with designing and building websites and web applications. The code for these websites and applications resides on web servers, not on the user's device. However, the 40GB ROM on the portal device indirectly impacts web development by ensuring efficient performance and storage space for other components that might interact with the web, such as web browsers, operating system libraries, and caching mechanisms.

Storage alternatives for web applications: While ROM stores essential system files, web applications themselves are stored on web servers and accessed through the internet. Users

download certain elements like offline functionalities or resources directly to their device's internal storage or SD card, but these are separate from the ROM.

2.2 Software Components:

2.2.1 Python:

Python: A powerful tool for web development

Python is a widely used, general-purpose programming language known for its readability, versatility, and large community. Its role in web development is extensive and impactful, making it a popular choice for building web applications and websites.

What is Python?

1. General purpose: Python can be used for various tasks, not just web development. It's suitable for data analysis, automation, and even scientific computing.
2. Beginner-friendly: Python boasts a clear and concise syntax, making it easier to learn compared to other languages. This makes it accessible to new programmers and fosters rapid development.
3. Open-source: Python is free to use and modify, with a vibrant community contributing libraries and frameworks. This open-source model keeps the language evolving and readily available.

How does Python work?

Interpreted language: Unlike compiled languages, Python code doesn't require translation into machine code before execution. Instead, an interpreter directly reads and executes the code line by line, making debugging and development faster.

Object-oriented: Python supports object-oriented programming (OOP), a paradigm that organizes code into objects, providing structure and modularity.

Extensive libraries and frameworks: A vast ecosystem of libraries and frameworks available in Python cater to various web development needs. Popular libraries like Django, Flask, and SQLAlchemy assist with tasks like database management, routing, and security.

How does Python play a role in web development?

Backend development: Python excels in backend development, the server-side logic that powers web applications. It handles tasks like:

- User authentication and authorization
- Database interaction and data manipulation
- APIs (Application Programming Interfaces) for communication with other applications
- Business logic and complex computations

Full-stack development: Python's versatility allows developers to work on both the front-end (user interface) and back-end, facilitating full-stack development.

Data science and machine learning: Python is a powerhouse in data science and machine learning, making it ideal for web applications that involve data analysis, prediction, and AI functionalities.

In the context of My Portal, Python could be used to:

- Manage user accounts and access privileges
- Store and process project data
- Perform calculations and analytics
- Communicate with databases and external services

While the portal's specific implementation details are unknown, Python's presence **highlights** its potential in building reliable, efficient, and scalable web applications.

2.2.2 HTML:

HTML: The building blocks of the web

HTML, or Hypertext Markup Language, is the very foundation of web pages. It's not a programming language, but rather a markup language that defines the structure and content of web pages. Imagine it as the skeleton and muscles of a web page, providing the basic framework on which other elements like CSS and JavaScript build the visual appeal and dynamic features.

How does HTML work?

1. Elements and tags: HTML consists of elements represented by tags. These tags are identifiers enclosed in angle brackets (e.g., `<p>` for paragraph or `` for image). Each element has a specific meaning and defines the type of content within it.
2. Structure and hierarchy: Elements form a hierarchical structure, with some elements nesting within others to create sections, headings, paragraphs, lists, and other website components. This hierarchy tells the browser how to display the content in a structured and organized way.
3. Attributes: Some elements can have additional attributes that provide further details. For example, an `` tag might have a `src` attribute specifying the image source file.

How does HTML play a role in web development?

Fundamental component: HTML is the essential starting point for any web page. Without it, you wouldn't have anything for CSS and JavaScript to work with. It defines the basic content and structure, like building the walls and floors of a house before adding furniture and decoration.

Accessible and easy to learn: HTML has a relatively simple syntax, making it easier to learn than many programming languages. This accessibility allows more people to participate in web development, fostering creativity and innovation.

Mobile-first design: Modern HTML versions offer flexible and responsive features, allowing developers to create web pages that adapt to different screen sizes and devices. This ensures everyone can access your website regardless of their device.

In the context of My Portal, HTML would be used to:

- Define the overall layout of the pages, including headers, navigation bars, and content sections.
- Structure the text content with paragraph tags, headings, and lists.
- Embed images and multimedia elements like videos or audio files.
- Create links to other pages or websites.

While HTML alone may not create a visually stunning or interactive website, it forms the solid foundation on which other technologies like CSS and JavaScript build user-friendly and engaging experiences. Understanding HTML is crucial for anyone involved in web development, as it's the core language that defines the very fabric of the web.

2.2.3 CSS:

CSS: Adding the polish to your web pages

If HTML is the skeleton and muscles of a web page, CSS is the skin and clothing that bring it to life. CSS stands for Cascading Style Sheets, and it's a language specifically designed to control the visual appearance of web pages. Think of it as the brushstrokes and palette that transform a bare outline into a vibrant and visually appealing website.

How does CSS work?

1. **Selectors:** CSS uses selectors to target specific HTML elements. These selectors can be based on element types (e.g., p for all paragraphs), class names (e.g., highlight for specific text sections), or IDs (e.g., #banner for the website banner).
2. **Declarations:** Once an element is targeted, CSS uses declarations to define its visual properties. These declarations come in pairs, specifying a property (e.g., font size) and its value (e.g., 16px).
3. **Cascading nature:** The term "cascading" in CSS refers to how styles are applied and inherited. Styles can be defined in different places, and the most specific rule takes precedence. This hierarchy allows for both global styling and targeted adjustments.

How does CSS play a role in web development?

Visual appeal: CSS breathes life into websites by setting fonts, colors, backgrounds, borders, and layouts. It controls everything from the size and style of text to the spacing and positioning of elements.

Responsiveness: Modern CSS features enable developers to create responsive websites that adapt to different screen sizes and devices. This ensures a seamless user experience regardless of how someone accesses the website.

Brand consistency: CSS helps maintain brand identity across a website by defining consistent themes and color palettes. This creates a visually unified and recognizable experience for users.

In the context of My Portal, CSS might be used to:

- Apply a specific font to headings and main content.
- Define color schemes for buttons, navigation bars, and backgrounds.
- Set margins and padding around text and images to create breathing space.
- Design responsive layouts that adjust to different screen sizes.

Understanding CSS is essential for anyone looking to create visually appealing and user-friendly websites. It empowers developers to transform plain HTML structures into engaging and interactive experiences.

2.2.4 Firebase Cloud:

Firebase Cloud: Our Portal's Modern Data Management Toolbox

Imagine a complete set of tools, all neatly organized in a toolbox, designed to simplify and streamline building web applications. That's Firebase Cloud in a nutshell. It's not just one service, but a collection of Google Cloud Platform features specifically tailored for modern web development. Think of things like secure user logins, real-time databases, flexible storage options, and even serverless functions, all under one convenient umbrella.

How Does It Work?

1. Project Setup: You create a Firebase project, connecting it to Google Cloud and unlocking access to specific features.
2. SDK Integration: Developers add Firebase's Software Development Kits (SDKs) to their web app code, enabling communication with chosen features.
3. Event-Driven Interaction: Users interact with your app, triggering events like data changes, button clicks, or logins.
4. Firebase Takes the Wheel: Firebase handles these events behind the scenes, whether it's storing data, sending notifications, or running custom functions.
5. Data and Results Flow Back: Updates and relevant information seamlessly return to your app, providing a dynamic and engaging user experience.

Web Development Benefits:

Firebase Cloud offers a powerful set of advantages for web developers:

Simplicity: Pre-built tools and APIs save time and effort, reducing development complexity.

Scalability: Firebase automatically adjusts to handle increasing user traffic and data volume, keeping your app running smoothly.

Security: Robust security features protect user data and applications, giving you peace of mind.

Real-Time Power: Data updates and interactions occur in real-time, making your app feel alive and responsive.

Cost-Effective Solutions: Flexible pricing plans make it suitable for startups and small businesses, ensuring you only pay for what you use.

Data Management Made Easy:

Firebase Cloud also excels in data management, offering several ways to extract and store data from your web portal:

Data Extraction:

Firebase SDKs: Capture user actions, form submissions, or data changes directly from the web app code.

Cloud Functions: Triggered by events, these server-less functions can extract data from the web app's backend or external sources.

Real-time Database: Data can be directly written to the Real-time Database from the web app or Cloud Functions.

Data Storage:

Cloud Storage: Securely store files and images uploaded from the web portal.

Cloud Fire store: A flexible NoSQL database for structured data like user profiles or project information.

Real-time Database: Ideal for real-time data like chat messages or online user presence.

Benefits of Firebase Cloud Data Management:

- **Scalability:** Data automatically adjusts to accommodate increasing traffic and storage needs, ensuring smooth performance.
- **Security:** Robust features safeguard data from unauthorized access, giving you peace of mind.

-
- Accessibility: Data is accessible from anywhere with an internet connection, offering flexibility and convenience.
 - Real-Time Updates: Data changes are reflected instantly, enhancing user experience and providing immediate insights.
 - Seamless Integration: Data seamlessly integrates with other Firebase services like authentication or analytics, simplifying development and creating a powerful ecosystem.

In Conclusion:

Firebase Cloud offers a modern and flexible solution for managing data in your web portal. Its scalability, security, and real-time capabilities can significantly enhance your app's performance and user experience, making it a valuable asset for any web developer.

2.2.5 Flask:

Flask is a high-level Python web framework that enables the rapid development of secure and maintainable websites. It provides a powerful set of tools for building web applications, including a robust ORM (Object-Relational Mapping) system, an automatic admin interface, and built-in security features.

- Easy to learn: Perfect for beginners due to its simple syntax and minimal boilerplate code.
- Fast and efficient: Ideal for smaller applications and prototypes due to its minimal overhead.
- Highly customizable: Enables developers to build exactly what they need without being constrained by a pre-defined structure.

How does Flask work?

At its core, Flask interacts with web servers through a standard called WSGI (Web Server Gateway Interface). This allows various servers like Apache or Nginx to communicate with your Flask application and deliver it to users.

Here's a simplified breakdown of the workflow:

1. User sends a request: This could be clicking a link, submitting a form, or any other interaction with your web app.
2. Flask receives the request: The web server passes the request to your Flask application.
3. Flask routes the request: Based on the URL or other factors, Flask determines which function in your code should handle the request.
4. Function processes the request: This function can access databases, perform calculations, or generate dynamic content.
5. Flask generates a response: The function prepares a response, which could be an HTML page, JSON data, or anything else relevant to the request.
6. Flask sends the response: The response is passed back to the web server and delivered to the user's browser.

How is Flask helpful in web app development?

Flask offers several advantages for web development:

- Rapid development: Build simple web apps quickly with minimal code thanks to its clear and concise syntax.
- Versatility: Create various types of applications, from basic websites to complex APIs and microservices.
- Extensible: Extend its functionality using a vast ecosystem of community-built extensions for database access, authentication, email sending, and more.
- Scalability: Start small and easily scale your application as it grows due to its modular design.
- Cost-effective: Open-source and free to use, making it a budget-friendly solution for startups and individual developers.

In summary, Flask is a powerful microframework that simplifies web development in Python. Its flexibility, ease of use, and extensibility make it a valuable tool for building various web applications, from simple prototypes to complex professional projects.

CHAPTER-5

OBJECTIVES

Objective 1: To provide a central platform for organizations to collaborate on CSR projects. This objective aims to address the challenge of organizations working in isolation on CSR projects. By providing a central platform, the portal will encourage and facilitate collaboration between organizations, enabling them to share resources, expertise, and knowledge. This will lead to more efficient and effective CSR initiatives with a greater impact on society. The ultimate purpose of CSR is to maximize shared value among organizations, employees, customers, shareholders, and community members. Managing for success in CSR programs from a centralized platform helps organizations pursue shared value among multiple stakeholders and learn from examples of successful CSR initiatives

Objective 2: To make it easier for organizations to find CSR projects that are aligned with their values and goals.

This objective seeks to address the difficulty organizations face in finding CSR projects that match their interests and capabilities. The portal will provide a searchable database of CSR projects, allowing organizations to easily find projects that align with their values, goals, and areas of expertise. CSR initiatives strive to have a positive impact on the world through direct benefits to society, nature, and the community in which a business operates. By making it easier for organizations to find aligned CSR projects, the portal can help improve various aspects of society as well as promote a positive brand image for companies

Objective 3: To pool the resources and expertise of organizations to make CSR initiatives more impactful.

This objective aims to maximize the impact of CSR initiatives by combining the resources and expertise of multiple organizations. The portal will facilitate resource sharing and collaboration, enabling organizations to pool their strengths and address larger, more complex social and environmental challenges. By pooling resources and expertise, companies can have a positive impact on society, nature, and the community in which they operate, while also experiencing internal benefits through the initiatives, such as increased employee satisfaction and strengthened staff retention

Objective 4: To increase the reach of CSR initiatives by making it easier for individuals and organizations to participate.

This objective seeks to broaden participation in CSR initiatives by making them more accessible and engaging. The portal will provide a user-friendly platform for individuals and organizations to discover and participate in CSR projects, regardless of their location or resources. This will expand the reach of CSR initiatives and create a more inclusive and impactful movement. Many companies view CSR as an integral part of their brand image, believing that customers will be more likely to do business with brands that they perceive to be socially responsible. By increasing the reach of CSR initiatives, companies can improve their brand image and have a positive impact on society, nature, and the community in which they operate

CHAPTER-6

SYSTEM DESIGN & IMPLEMENTATION

Architecture:

Firebase Cloud Fire store is the chosen database for storing and managing user data, events, and project information. It offers scalable and secure cloud-based storage solutions, ideal for a platform with a potentially large and global user base. Additionally, this is used for caching and session management, optimizing the performance of the platform, while this can be integrated for more complex relational data storage needs.

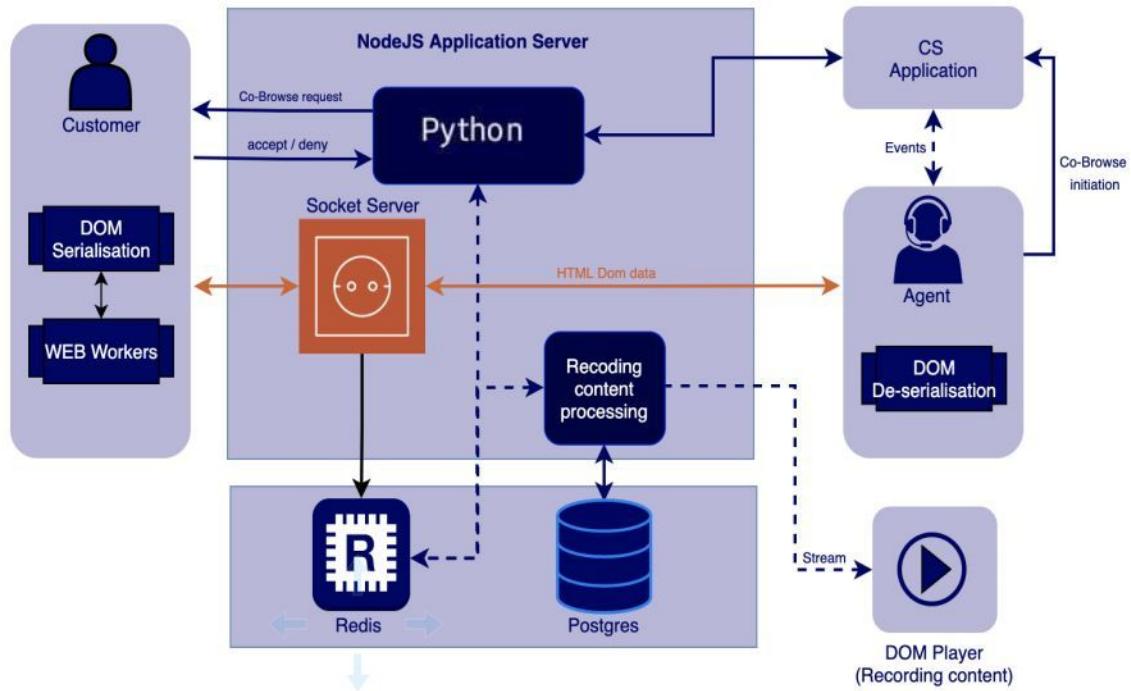


Figure 6.1 Architecture Diagram

Customer Interaction: Users engage with the web application via their browsers.

Co-browsing Session Initiation: When a user requests a co-browsing session, their browser sends a request to the Pega Co-browse server.

Pega Co-browse Server: This server, built on Node.js, orchestrates the co-browsing sessions. It handles incoming requests, user authentication, and establishes connections between users and support agents.

Express Framework: This Node.js framework is employed in the Pega Co-browse server for managing HTTP communications.

Real-time Communication Server: This server facilitates live interaction between users and support agents, enabling the sharing of browser content and cursor movements in real time.

DOM Serialization: User interactions modify the web page's DOM, which is then serialized for transmission over the network.

Background Processing with Web Workers: Web workers are utilized to perform DOM serialization in the background, enhancing application performance by not overloading the main thread.

Data Encoding: The serialized DOM data is encoded into a format readable by the support agent's browser.

DOM Replay Tool: This tool recreates the user's actions in the support agent's browser, mirroring the user's view in real-time.

Data Analysis with R and Stream: The R language, aided by the Stream library, processes user interactions for tracking website navigation and identifying issues.

Data Storage with Redis and Postgres: Redis, a NoSQL database, temporarily stores data like the current state of a co-browsing session. Postgres, a SQL database, maintains permanent records such as user account details.

Overall, the technology stack for CSR Connect is strategically selected to cater to the diverse requirements of a collaborative CSR platform. The combination of Python offers a powerful backend solution, while HTML, CSS, and JavaScript ensure a rich and engaging user

interface. The use of Firebase, Web Workers, and Socket Server further demonstrates the commitment to creating a scalable, efficient, and interactive platform for CSR activities. This thoughtful integration of technologies positions CSR Connect to effectively meet the demands of its users and achieve its objectives in the realm of corporate social responsibility.

UML Diagrams:

Actor:

A coherent set of roles that users of use cases play when interacting with the use cases.



Figure 7.2 - Actor

Use case:

A description of the sequence of actions, including variants, that a system performs that yields an observable result of the value of an actor.



Figure 7.3 – Use Case

UML stands for Unified Modeling Language. UML is a language for specifying, visualizing, and documenting the system. This is the step while developing any product after analysis. The goal of this is to produce a model of the entities involved in the project which later need to be built. The representation of the entities that are to be used in the product being developed needs to be designed.

There are various kinds of methods in software design:

They are as follows:

- Use case Diagram
- Sequence Diagram

-
- Collaboration Diagram
 - Activity Diagram
 - State chart Diagram

Use case Diagrams:

Use case diagrams model behavior within a system and help the developers understand what the user requires. The stick man represents what's called an actor. Using case diagram can be useful for getting an overall view of the system and clarifying that can do and more importantly what it can't do.

A use case diagram consists of use cases and actors and shows the interaction between the use case and actors.

- The purpose is to show the interactions between the use case and actor.
- To represent the system requirements from the user's perspective.
- An actor could be the end-user of the system or an external system.

A Use case is a description of the set of sequence of actions. Graphically it is rendered as an ellipse with a solid line including only its name. A use case diagram is a behavioral diagram that shows a set of use cases and actors and their relationship. It is an association between the use cases and actors. An actor represents a real-world object. Primary Actor – Sender, Secondary Actor Receiver.

GOVT:

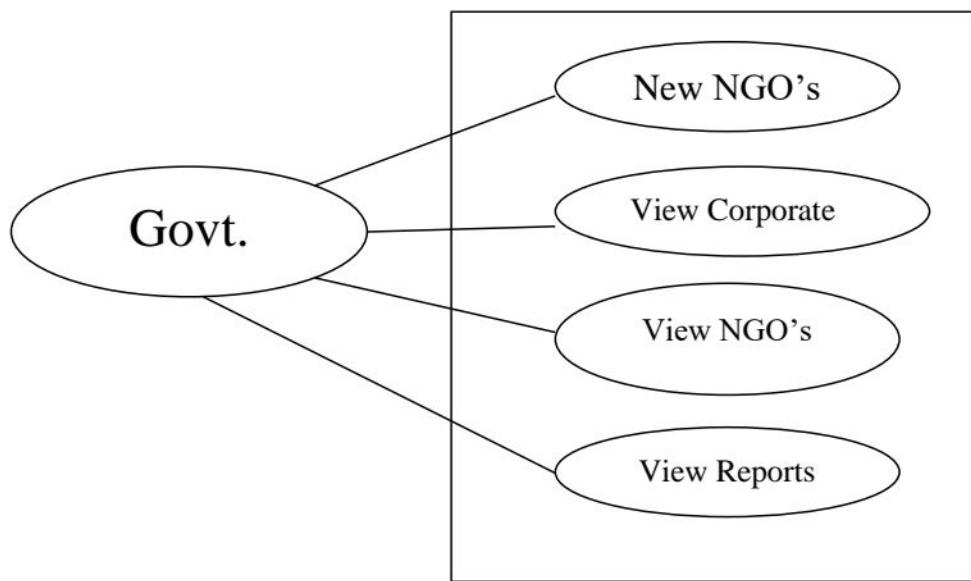


Figure 7.4 – Govt. Use Case Diagram

Actors:

Govt. :This refers to recently hired staff members who have access to the website's administrative features.

Use Cases:

View Users: This feature gives the website administrator access to a list of every user who has registered.

View Staffs: Provides the administrator with a list of all employees who have access to the administrative sections of the website.

View Reports: Provides access to a range of reports that show how a website is used, including information on user activity, traffic patterns, and content effectiveness.

"View Users" and "View Staffs" are activated by new hires: It is implied that new employees can make use of the "View Users" and "View Staffs" features after being given access to the administration interface.

The system produces reports: Reports are automatically generated by the system and accessed by the administrator using the "View Reports" button.

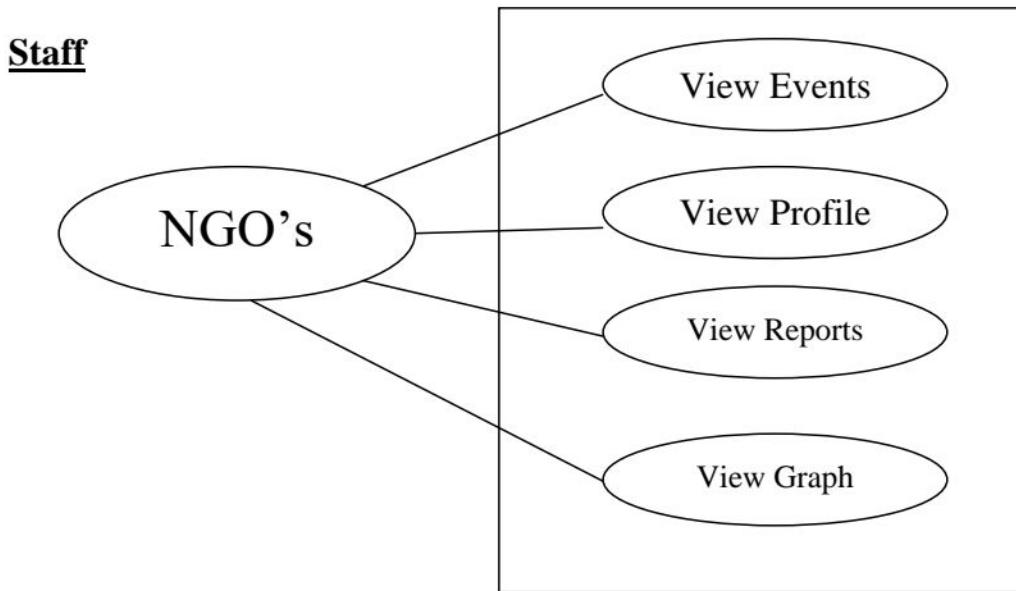


Figure 7.5 NGO's Use Case Diagram

Actor's

NGO's : Represents individuals with specific administrative privileges within the system.

Use Cases:

View Events:

Description: Staff members can access and view information about events on the system.

Purpose: Allows staff to stay informed about scheduled events, facilitating coordination and planning.

View Profile:

Description: Staff members have the capability to view and manage their own profiles within the system.

Purpose: Enables staff to update personal information and settings as needed.

View Reports:

Description: Staff members can access and review detailed reports on various aspects of the system, such as user activity, event attendance, or other relevant data.

Purpose: Provides staff with valuable insights to make informed decisions and assess the overall performance of the system.

View Graph:

Description: Staff members can view graphical representations of data, likely in the form of charts or graphs.

Purpose: Enhances the visualization of information, making it easier for staff to interpret and understand complex data sets.

Corporate

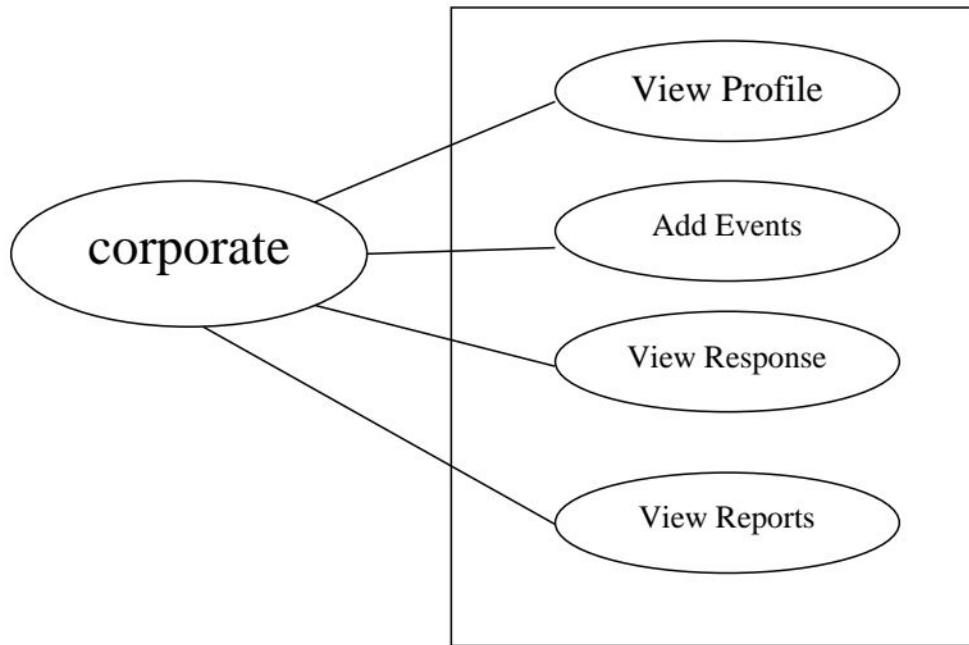


Figure 7.6 User use case Diagram

Use Cases of user:

View Profile:

Description: Users can view their own profiles, providing access to personal information and settings.

Purpose: Enables users to manage and review their profile details within the system.

Add Staff:

Description: Users have the capability to add new staff members to the system.

Purpose: Allows users to contribute to the growth of the staff by adding new members.

View Response:

Description: Users can access and review responses, likely related to feedback, surveys, or

other interactive elements.

Purpose: Provides users with insights into responses and interactions, facilitating an understanding of user engagement.

View Reports:

Description: Users can access and view various reports, potentially including statistical information on website usage, traffic, and content performance.

Purpose: Empowers users with data-driven insights, aiding informed decision-making and understanding the system's overall performance.

Data Flow Diagram

DFD LEVEL 0



DFD LEVEL 1



DFD LEVEL 2



DATA FLOW DIAGRAMS:

The DFD takes an input-process-output view of a system i.e. data objects flow into the software, are transformed by processing elements, and resultant data objects flow out of the software.

Data objects represented by labeled arrows and transformations are represented by circles also called bubbles. DFD is presented hierarchically i.e. the first data flow model represents the system as a whole. Subsequent DFD refines the context diagram (level 0 DFD), providing increasing details with each subsequent level.

The DFD enables the software engineer to develop models of the information domain & functional domain at the same time. As the DFD is refined into greater levels of detail, the analyst performs an implicit functional decomposition of the system. At the same time, the DFD refinement results in a corresponding refinement of the data as it moves through the processes that embody the applications.

A context-level DFD for the system the primary external entities produce information for use by the system and consume information generated by the system. The labeled arrow represents data objects or object hierarchy.

RULES FOR DFD:

- Fix the scope of the system using context diagrams.
- Organize the DFD so that the main sequence of the actions
- Reads left to right and top to bottom.
- Identify all inputs and outputs.
- Identify and label each process internal to the system with Rounded circles.
- A process is required for all the data transformation and Transfers. Therefore, never connect a data store to a data Source or the destinations or another data store with just a Data flow arrow.
- Do not indicate hardware and ignore control information.
- Make sure the names of the processes accurately convey everything the process is done.

-
- There must not be unnamed process.
 - Indicate external sources and destinations of the data, with Squares.
 - Number each occurrence of repeated external entities.
 - Identify all data flows for each process step, except simple Record retrievals.
 - Label data flow on each arrow.
 - Use details flow on each arrow.
 - Use the details flow arrow to indicate data movements.

Technology Stack Overview:

Your project's technology stack is a well-thought-out combination of modern web development tools and technologies, designed to create a robust and engaging platform for CSR collaboration. Each component of the stack plays a specific role in ensuring the platform's functionality, usability, and scalability.

Frontend Development:

The front end of the CSR Connect platform is built using HTML, CSS, and JavaScript. HTML forms the backbone of the web pages, structuring the content and layout. CSS is utilized for styling and visual presentation, ensuring that the user interface is both appealing and intuitive. JavaScript adds dynamic interactions and enhances the user experience by allowing for real-time updates and interactive features.

Backend Development:

On the server side, Python is employed for handling core operations. This includes user authentication, authorization, and the management of interactions with the Firebase Cloud Fire store database. Python's powerful libraries and frameworks make it ideal for processing complex server-side logic. This complements Python by powering real-time features such as collaborative editing, live chat, and notifications, enhancing the platform's interactivity and responsiveness.

CHAPTER-7

TIMELINE FOR EXECUTION OF PROJECT (GANTT CHART)

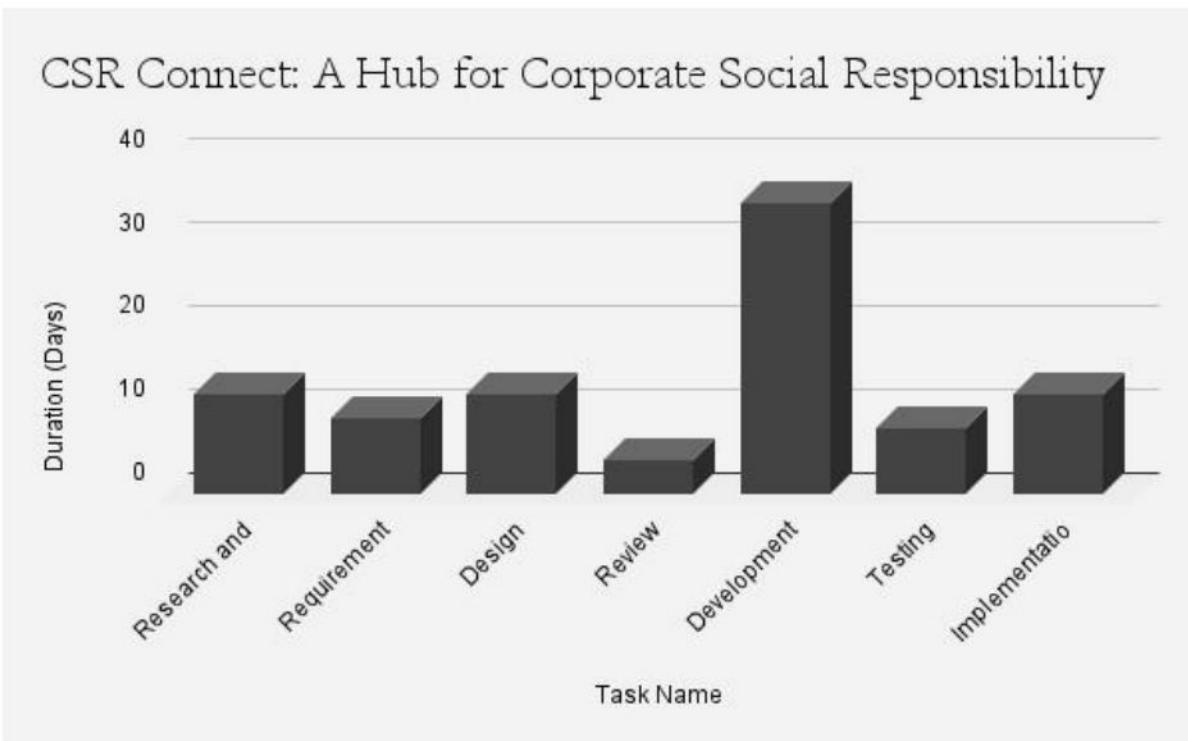


Figure 7.1 Gantt chart

Project Duration:

The project is planned to last approximately 4 months, spanning from late September 2023 to early January 2024.

Project Phases:

Research and Analysis (12 days): This initial phase involves gathering data, understanding the problem, and exploring potential solutions.

Requirement Collection (9 days): This phase focuses on defining specific project requirements and gathering input from stakeholders.

Design (12 days): This phase entails creating the overall project design, including architecture, user interfaces, and technical specifications.

Review (4 days): This phase involves feedback and approval from key stakeholders to ensure alignment with goals and requirements.

Development (35 days): This phase marks the actual building and coding of the project, bringing the design to life.

Testing (8 days): This phase aims to identify and fix any errors or issues to ensure quality and functionality.

Implementation (12 days): This final phase involves deploying the project to its intended environment and making it available to users.

CHAPTER-8

OUTCOMES

The outcomes of this comprehensive CSR Connect project are poised to revolutionize the landscape of corporate social responsibility, bringing about positive changes for users, organizations, and the community at large. Through the meticulous implementation of various modules and submodules, the project aims to achieve the following transformative outcomes:

Efficient User Engagement: The User Management module ensures a streamlined onboarding process, allowing users to register seamlessly, manage their profiles, and tailor their preferences. This results in an engaged user base that can readily participate in CSR activities.

Structured Organization Participation: The Organization Management module facilitates a structured approach to organization engagement, from registration and profile management to search and discovery. Organizations benefit from a systematic platform that aligns them with suitable CSR projects based on their mission and expertise.

Impactful CSR Project Management: The CSR Project Management module empowers organizations to create, submit, and showcase their CSR initiatives. By integrating a review and approval process, the portal ensures that only projects aligning with its mission and criteria receive visibility, fostering impactful contributions to societal challenges.

Dynamic Volunteer Matching: The Volunteer Management module enables volunteers to register, create profiles, and engage in meaningful CSR projects matched to their skills and interests. The matching and placement submodule ensures an efficient pairing process, resulting in volunteers contributing effectively to projects that resonate with their abilities.

Transparent Resource Management: The Resource Management module introduces a transparent system for organizations to donate and request resources. By tracking and allocating resources efficiently, the portal addresses resource gaps, ensuring that CSR projects receive the necessary support to thrive.

Enhanced Communication and Collaboration: The Communication and Collaboration module, with features like the Project Discussion Forum, fosters a collaborative environment

where stakeholders can share ideas, discuss project details, and stay updated. This promotes a sense of community and shared responsibility among users and organizations.

Recognition and Reward System: The Volunteer Hours Tracking and Recognition submodule acknowledges and rewards volunteers for their contributions, fostering a positive feedback loop that encourages ongoing engagement. This recognition mechanism enhances the overall volunteer experience and motivates sustained participation.

Strategic Resource Needs Assessment: The Resource Needs Assessment and Prioritization submodule evaluates the resource requirements of CSR projects, offering insights to prioritize based on importance and impact. This strategic approach ensures that resources are allocated judiciously, maximizing the effectiveness of each initiative.

Holistic Platform Integration: The seamless integration of various technologies, including HTML, CSS, JavaScript, Python, NodeJS, Firebase, Redis, and Postgres, creates a robust and scalable platform. This integration enhances user experience, facilitates efficient communication, and provides valuable data for informed decision-making

CHAPTER-9

RESULTS AND DISCUSSIONS

In essence, CSR Connect is designed to reshape the landscape of corporate social responsibility (CSR) by introducing a transformative platform that enhances the way organizations and individuals participate in CSR activities. The primary objectives of CSR Connect are to promote collaboration, transparency, and efficiency within the CSR ecosystem.

The platform addresses existing challenges in the CSR domain by providing a centralized space for organizations and individuals to interact, collaborate, and contribute meaningfully. By streamlining processes such as user registration, organization management, and CSR project coordination, CSR Connect fosters a more efficient and user-friendly experience.

One of the key outcomes of the project is the creation of a more connected community. Through features like the Project Discussion Forum and volunteer matching capabilities, CSR Connect encourages stakeholders to engage in open communication, share ideas, and collaborate on solutions. This interconnectedness not only strengthens the relationships between organizations and volunteers but also cultivates a sense of shared responsibility.

Transparency is another core value embedded in CSR Connect's outcomes. The platform ensures clear visibility into CSR projects, organizations, and available resources. With modules like CSR Project Review and Approval, Resource Donation and Tracking, and Resource Needs Assessment, CSR Connect strives to make information readily accessible, enabling users to make informed decisions and understand the impact of their contributions.

Furthermore, CSR Connect empowers the community by providing tools for efficient resource management. Organizations can donate resources, and the platform ensures these resources are allocated to suitable CSR projects, addressing specific needs. The prioritization of resource allocation based on importance and impact ensures a strategic and effective distribution of support.

In summary, CSR Connects overarching goal is to create a more sustainable and socially responsible future by revolutionizing how CSR initiatives are executed. By promoting collaboration, transparency, and efficiency, CSR Connect aspires to foster a community that is not only connected but also empowered to collectively address societal and environmental challenges. Through these outcomes, the project seeks to contribute significantly to the advancement of CSR activities, making a positive impact on a global scale.

CHAPTER-10

CONCLUSION

In conclusion, CSR Connect represents a significant leap forward in the realm of corporate social responsibility. This innovative platform, designed to connect organizations with individuals, addresses the current gaps in CSR engagement by offering a centralized, efficient, and transparent system for managing CSR activities. The comprehensive modules covering user and organization management, CSR project coordination, volunteer engagement, resource distribution, and communication and collaboration are tailored to ensure that every stakeholder can contribute effectively to societal and environmental challenges.

The outcomes of CSR Connect are far-reaching and impactful. By fostering a more connected community, the platform not only enhances collaboration and knowledge sharing but also amplifies the impact of CSR initiatives. The emphasis on transparency in operations and resource allocation ensures that efforts are directed where they are most needed, thereby maximizing the effectiveness of CSR activities. Moreover, the platform's capability to match volunteers with suitable projects based on their skills and interests not only optimizes volunteer engagement but also enriches the overall volunteer experience.

Ultimately, CSR Connect catalyzes change, encouraging a collective approach to social responsibility. It stands as a testament to the power of technology in bridging gaps, connecting diverse stakeholders, and facilitating meaningful contributions towards a more sustainable and equitable world. In harnessing the collective efforts of organizations and individuals, CSR Connect paves the way for a future where CSR is not just a corporate obligation, but a collaborative, impactful, and deeply integrated part of our societal fabric.

REFERENCES

- [1] Konstantin G. Aravossis and Nikolaos A. Panayiotou, "A proposed methodological framework for the evaluation of corporate social responsibility," 2006. Vol 98, pp 87-95, WIT Press 2006 DOI:[10.2495/EEIA060091](https://doi.org/10.2495/EEIA060091)
- [2] Dr. Lakshmana, "Corporate Social Responsibility in India – A way to Socio-Economic Development," 2011. DOI:[10.15373/2249555X/NOV2012/14](https://doi.org/10.15373/2249555X/NOV2012/14) Vol. 10, Issue, 12(D), pp. 36292-36298, December, 2019
- [3] Miklesh Prasad Yadav, "Impact of corporate social responsibility on corporate reputation: Indian Scenario," 2014. Vol.02 Issue-05, (May, 2014) ISSN: 2321-1784 (Impact Factor- 3.259)
- [4] Sudeshna Saha and Neelmani Jaysawal, "Corporate Social Responsibility (CSR) in India: A Review," 2015. DOI:[10.20896/saci.v3i2.146](https://doi.org/10.20896/saci.v3i2.146) License: [CC BY 4.0](#) November 2015: [Space and Culture India](#) 3(2):81-93
- [5] Nidhi Tandon and Simran Kaur, "The Role of Corporate Social Responsibility in India," 2017. DOI:[10.20896/saci.v3i2.156](https://doi.org/10.20896/saci.v3i2.156) vol. 55, no. 2, pp. 215-22
- [6] Badur Raja Mannar, "Corporate Governance and Corporate Social Responsibility: The Indian Context," 2017. Volume 9 Issue 1 [Year-2018] ISSN 2319-9202 DOI:[10.2495/EEIA0600671](https://doi.org/10.2495/EEIA0600671)
- [7] Mohammad Amir, "A study of corporate social responsibility (CSR) initiatives of selected organizations in and around Pune city, state of Maharashtra, India," 2019. Vol. 4 • Nº 16 • Junio 2019 ISSN 2477-9083 pp. 375 - 383 ISSN 2477-9083 Vol. 4 • Nº 16 • Junio 2019 ISSN 2477-9083

[8] Dr. Kiran Kakade, "A Comparative Study of Corporate Social Responsibility Practices in India," 2019. DOI:[10.13140/RG.2.2.28202.47047](https://doi.org/10.13140/RG.2.2.28202.47047) Vol.3, Issue 5(Sep.- Oct), pp. 17-27. , 17-27.

[9] Vethirajan . C, Ariyadevi . N, J.Antony Nancy, S.Jeya Chitra, "A literature review: Corporate social responsibility practices of Indian companies," 2020. May 2020 [Aegaeum](#) 8(5):236-251

[10] Sunita Pachar and Rubee Singh, "Role of Sustainable Development Goals and Corporate Social Responsibility in India's Growth: Opportunities and Challenges," 2021. June 2021 [The Empirical Economics Letters](#) 20(Special Issue 2)

APPENDIX-A

PSEUDOCODE

Index.html

```
<html lang="en">
<head>
    <meta charset="UTF-8">
</head>
<body>
{%
    block content %}
    <!-- slider section -->
<div class="hero area">
    <section class="slider section ">
        <div class="slider bg box">
            
        </div>
        <div id="customCarousel1" class="carousel slide" data-
ride="carousel">
            <div class="carousel-inner">
                <div class="carousel-item active">
                    <div class="container ">
                        <div class="row">
                            <div class="col-md-7 ">
                                <div class="detail-box">
                                    <h1>
                                        We Provide best <br>
                                        Corporate Social Responsibility Service
                                    </h1>

                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
</section>
    <!-- end slider section -->
</div>
{%
    endblock %}
</body>
</html>
```

Userlogin.html

```

<html lang="en">
<head>
    <meta charset="UTF-8">
</head>
<body>
{# block content %}
<!-- contact section -->
<section class="contact_section layout_padding-top">
    <div class="container-fluid">
        <div class="row">
            <div class="col-lg-4 col-md-5 offset-md-1">
                <div class="heading_container">
                    <h2>
                        User Login
                    </h2>
                </div>
            </div>
        </div>
        <div class="row">
            <div class="col-lg-4 col-md-5 offset-md-1">
                <div class="form_container">
                    {{msg}}
                    <form action="/userlogin" method="post">
                        <div>
                            <input type="text" placeholder="Login Name" name="uname"
required/>
                        </div>
                        <div>
                            <input type="password" placeholder="Password" name="pwd"
required/>
                        </div>
                        <div class="btn_box">
                            <input type="submit" value="User Login">
                        </div>
                    </form>
                </div>
            </div>
        </div>
        <!--<div class="col-lg-7 col-md-6 px-0">
            <div class="map_container">
                <div class="map">
                    <div id="googleMap"></div>
                </div>
            </div>
        </div>
        </section>
{# endblock %}
</body>
</html>

```

Service.html

```

<html lang="en">
<head>
    <meta charset="UTF-8">

</head>
<body>
{ % block content %}
    <!-- service section -->

    <section class="service section layout padding">
        <div class="service container">
            <div class="container ">
                <div class="heading container">
                    <h2>
                        Our <span>Services</span>
                    </h2>
                    <p>
                        CSR may be based within the human resources, business development or public relations departments of an organisation, or may be a separate unit reporting to the CEO or the board of directors.
                    </p>
                </div>
                <div class="row">
                    <div class="col-md-6 ">
                        <div class="box ">
                            <div class="img-box">
                                
                            </div>
                            <div class="detail-box">
                                <h5>
                                    Engagement plan
                                </h5>
                                <p>
                                    An engagement plan can assist in reaching the desired audience. A corporate social responsibility individual or team plans the goals and objectives of the organization. As with any corporate activity, a defined budget demonstrates commitment and scales the program's relative importance.
                                </p>
                            </div>
                        </div>
                    </div>
                    <div class="col-md-6 ">
                        <div class="box ">
                            <div class="img-box">
                                
                            </div>
                            <div class="detail-box">
                                <h5>
                                    Verification
                                </h5>
                                <p>
                                    Corporate social responsibility and its resulting reports and efforts should be verified by the consumer of the goods and services.
                                </p>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </section>
</body>

```

```

socially sustainable.

    </p>
    </div>
</div>
<div class="col-md-6 ">
    <div class="box ">
        <div class="img-box">
            
        </div>
        <div class="detail-box">
            <h5>
                Ethics training
            </h5>
            <p>
                The rise of ethics training inside corporations, some of
it required
                by government regulation, has helped CSR to spread. Such
training aims
                to help employees make ethical decisions when the
answers are unclear.
                The most direct benefit is reducing the likelihood of
"dirty hands",
                fines, and damaged reputations for breaching laws or
moral norms.
                Organizations see increased employee loyalty and pride
in the organization.
            </p>
            </div>
        </div>
    <div class="col-md-6 ">
        <div class="box ">
            <div class="img-box">
                
            </div>
            <div class="detail-box">
                <h5>
                    Community involvement
                </h5>
                <p>
                    This can include raising money for local charities,
providing volunteers, sponsoring local events, employing local workers,
supporting local economic growth, engaging in fair trade practices, etc.
                </p>
                </div>
            </div>
        </div>
    </div>
</section>
{%
    endblock %
}</body>
</html>

```

newuser.html

```

<html lang="en">
<head>
    <meta charset="UTF-8">
</head>
<body>
{# block content #}
<!-- contact section -->
<section class="contact_section layout_padding-top">
    <div class="container-fluid">
        <div class="row">
            <div class="col-lg-4 col-md-5 offset-md-1">
                <div class="heading_container">
                    <h2>
                        New User Page
                    </h2>
                </div>
            </div>
        </div>
        <div class="row">
            <div class="col-lg-4 col-md-5 offset-md-1">
                <div class="form_container">
                    {{msg}}
                    <form action="/newuser" method="post">
                        <div>
                            <input type="text" placeholder="First Name" name="fname"/>
                        </div>
                        <div>
                            <input type="text" placeholder="Last Name" name="lname"/>
                        </div>
                        <div>
                            <input type="email" placeholder="Email Id" name="email"/>
                        </div>
                        <div>
                            <input type="text" placeholder="Phone Number" name="phnum"
pattern="[0-9]{10}"
maxlength="10"/>
                        </div>
                        <div>
                            <input type="text" placeholder="Login Name" name="uname"/>
                        </div>
                        <div>
                            <input type="password" placeholder="Password" name="pwd"/>
                        </div>
                        <div>
                            <textarea name="address" placeholder="Address" rows="5"
cols="45">
                            </textarea>
                        </div>
                        <div class="btn_box">
                            <input type="submit" value="New User">
                        </div>
                    </form>
                </div>
            </div>
        </div>
    </div>
</body>

```

Newstaff.html

```

{# include 'commonheader.html' #}
<html lang="en">
<head>
    <meta charset="UTF-8">
</head>
<body>
{# block content #}
<!-- contact section -->
<section class="contact section layout padding-top">
    <div class="container-fluid">
        <div class="row">
            <div class="col-lg-4 col-md-5 offset-md-1">
                <div class="heading container">
                    <h2>
                        Staff Login
                    </h2>
                </div>
            </div>
            <div class="row">
                <div class="col-lg-4 col-md-5 offset-md-1">
                    <div class="form container">
                        {{msg}}
                        <form action="/stafflogin" method="post">
                            <div>
                                <input type="text" placeholder="Login Name" name="uname"
required/>
                            </div>
                            <div>
                                <input type="password" placeholder="Password" name="pwd"
required/>
                            </div>
                            <div class="btn box">
                                <input type="submit" value="Staff Login">
                            </div>
                        </form>
                    </div>
                </div>
            <!--<div class="col-lg-7 col-md-6 px-0">
                <div class="map container">
                    <div class="map">
                        <div id="googleMap"></div>
                    </div>
                </div>
            <!-->
        </div>
        </div>
    </div>
</section>
<!-- end contact section -->
{# endblock #}
</body>
</html>

```

APPENDIX-B

SCREENSHOTS

Home Page :



Figure A

About Page :

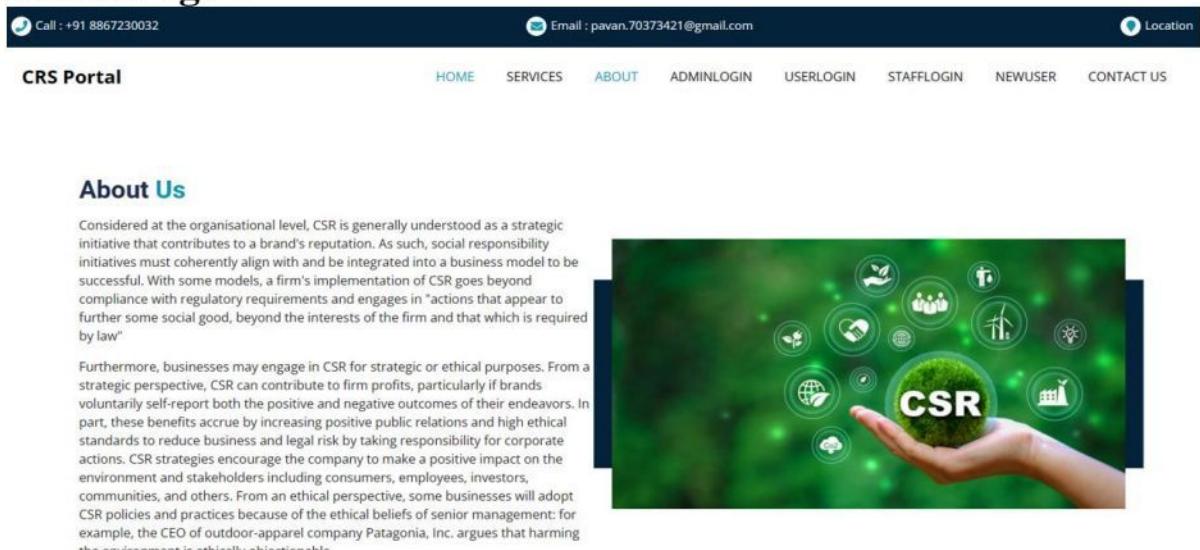


Figure B

Service Page :

The screenshot shows a service page with a dark header bar containing contact information (Call: +91 8867230032, Email: pavan.70373421@gmail.com, Location) and a navigation menu (CRS Portal, HOME, SERVICES, ABOUT, ADMINLOGIN, USERLOGIN, STAFFLOGIN, NEWUSER, CONTACT US). Below the header, a section titled "Our Services" is displayed, featuring four boxes: "ENGAGEMENT PLAN" (describing how it assists in reaching the desired audience), "VERIFICATION" (describing corporate social responsibility and its verification), "ETHICS TRAINING" (describing its rise and benefits), and "COMMUNITY INVOLVEMENT" (describing various ways organizations support local communities).

Figure C

Admin Login Page :

The screenshot shows an admin login page with a dark header bar containing contact information (Call: +91 8867230032, Email: pavan.70373421@gmail.com, Location) and a navigation menu (CRS Portal, HOME, SERVICES, ABOUT, ADMINLOGIN, USERLOGIN, STAFFLOGIN, NEWUSER, CONTACT US). The main content area is titled "ADMIN LOGIN" and contains two input fields: one for "admin" and another for ".....". Below the fields is a "Admin Login" button.

Figure D

Type page:

[CRS Portal](#) [HOME](#) [SERVICES](#) [TYPES](#) [ABOUT](#) [ADMINLOGIN](#) [USERLOGIN](#) [STAFFLOGIN](#) [NEWUSER](#) [CONTACT US](#)

Our Types

Corporate social responsibility (CSR) or corporate social impact is a form of international private business self-regulation which aims to contribute to societal goals of a philanthropic, activist, or charitable nature by engaging in, with, or supporting professional service volunteering through pro bono programs, community development, administering monetary grants to non-profit organizations for the public benefit, or to conduct ethically oriented business and investment practices.

 ENVIRONMENTAL RESPONSIBILITY Environmental responsibility is our duty to protect and improve our environment. An environmentally responsible individual, industry, community, or government assesses their environmental sustainability and applies this knowledge to their decision-making.	 ETHICAL RESPONSIBILITY Ethical responsibility is the ability to recognize, interpret and act upon multiple principles and values according to the standards within a given field and/or context.
 PHILANTHROPIC RESPONSIBILITY Philanthropic responsibility refers to a company's obligation to give back to communities through charitable donations, volunteer work, and community involvement. Philanthropic initiatives can support a variety of causes, including education, health, and social welfare.	 ECONOMIC RESPONSIBILITY Economic responsibility refers to the practice of making financial decisions based on a commitment to doing good. Some common examples of economic responsibility include investing in alternative energy sources, putting more money into education programs and funding local charities as a way of bolstering their mission.

Figure E

Environmental page:

[CRS Portal](#) [HOME](#) [SERVICES](#) [TYPES](#) [ABOUT](#) [ADMINLOGIN](#) [USERLOGIN](#) [STAFFLOGIN](#) [NEWUSER](#) [CONTACT US](#)

Environmental Responsibility

Environmental responsibility is the ethical obligation companies have to protect natural resources, avoid pollution and reduce other forms of environmental harm.

Corporate environmental responsibility requires businesses to develop a comprehensive strategy that includes various sustainability initiatives. These initiatives include reducing energy consumption, participating in green programs, promoting recycling efforts, and utilizing eco-friendly production processes.

10 Ways to Implement Environmental Responsibility in Any Workplace

1. Implement a recycling program
2. Encourage The use of Alternative Means of Transport
3. Use Energy-Efficient Equipment
4. Go Paperless
5. Use Green Cleaning Products
6. Encourage Sustainable Practices
7. Invest in renewable energy
8. Support Environmentally-Friendly Vendors
9. Promote Environmentally Friendly Products
10. Measure And Track Progress



Figure F

User Login Page :

Call : +91 8867230032 Email : pavan.70373421@gmail.com Location

CRS Portal

HOME SERVICES ABOUT ADMINLOGIN USERLOGIN STAFFLOGIN NEWUSER CONTACT US

USER LOGIN

admin

.....

User Login

Figure G

Staff Login Page :

Call : +91 8867230032 Email : pavan.70373421@gmail.com Location

CRS Portal

HOME SERVICES ABOUT ADMINLOGIN USERLOGIN STAFFLOGIN NEWUSER CONTACT US

STAFF LOGIN

admin

.....

Staff Login

Figure H

New User Page :

Call : +91 8867230032

Email : pavan.70373421@gmail.com

Location

CRS Portal

HOME SERVICES ABOUT ADMINLOGIN USERLOGIN STAFFLOGIN NEWUSER CONTACT US

NEW USER PAGE

First Name

Last Name

Email Id

Phone Number

admin

.....

Message Area

Figure I

Contact Page :

Call : +91 8867230032

Email : pavan.70373421@gmail.com

Location

CRS Portal

HOME SERVICES ABOUT ADMINLOGIN USERLOGIN STAFFLOGIN NEWUSER CONTACT US

CONTACT PAGE

First Name

Last Name

Email Id

Phone Number

Subject

Message Area

Contact us

Figure J

Admin Login Page :



Admin Main Page

Considered at the organisational level, CSR is generally understood as a strategic initiative that contributes to a brand's reputation. As such, social responsibility initiatives must coherently align with and be integrated into a business model to be successful. With some models, a firm's implementation of CSR goes beyond compliance with regulatory requirements and engages in "actions that appear to further some social good, beyond the interests of the firm and that which is required by law".

Furthermore, businesses may engage in CSR for strategic or ethical purposes. From a strategic perspective, CSR can contribute to firm profits, particularly if brands voluntarily self-report both the positive and negative outcomes of their endeavors. In part, these benefits accrue by increasing positive public relations and high ethical standards to reduce business and legal risk by taking responsibility for corporate actions. CSR strategies encourage the company to make a positive impact on the environment and stakeholders including consumers, employees, investors, communities, and others. From an ethical perspective, some businesses will adopt CSR policies and practices because of the ethical beliefs of senior management: for example, the CEO of outdoor-apparel company Patagonia, Inc. argues that harming the environment is ethically objectionable.



Figure K

New Staff Page :

First Name	
Last Name	
Email Id	
Phone Number	
admin	
.....	

Figure L

Admin Views Users Page:

The screenshot shows a web application interface for managing users. At the top, there are three contact links: 'Call : +91 8867230032', 'Email : pavan.70373421@gmail.com', and 'Location'. Below these are navigation links: 'CRS Portal', 'HOME', 'ADD STAFF', 'VIEW USERS' (which is highlighted in blue), 'VIEW STAFFS', 'VIEW PLANS', 'VIEW REPORTS', and 'LOGOUT'. The main content area is titled 'Admin View Users Page' and displays a table with the following data:

User Id	First Name	Last Name	EmailId	Phone Number	Address
2404	Pavitra	Roi	pavitra22@gmail.com	9687432786	11#3rd main bengaluru
2962	shashank	p ravoor	shashank.20201CSE0525@presidencyuniversity.in	9902602747	marathalli Bengaluru
3027	krishnaraj	vittal nayak	Krishnayak08@gmail.com	8762428131	HSR layout, Bengaluru
4081	Kishor	Kumar KR	Kishor33@gmail.com	7483635631	dibbur yelahanka Bengaluru
4559	PAVAN	ER	PAVAN.20201CSE0571@PRESIDENCYUNIVERSITY.IN	8867230032	#11bengaluru
4653	karthik	k	Krthik47@gmail.com	9855534758	ms palya
6741	sangamesh	patil	Sangamesh22@gmail.com	9591357709	#11bengaluru rajanakunte

Figure M

Admin Views Staff Page :

The screenshot shows a web application interface for managing staff. At the top, there are three contact links: 'Call : +91 8867230032', 'Email : pavan.70373421@gmail.com', and 'Location'. Below these are navigation links: 'CRS Portal', 'HOME', 'ADD STAFF' (which is highlighted in blue), 'VIEW USERS', 'VIEW STAFFS' (highlighted in blue), 'VIEW PLANS', 'VIEW REPORTS', and 'LOGOUT'. The main content area is titled 'Admin View Staff Page' and displays a table with the following data:

User Id	First Name	Last Name	EmailId	Phone Number	Address
9927	PAVAN	ER	PAVAN.20201CSE0571@PRESIDENCYUNIVERSITY.IN	08867230032	#11bengaluru

Figure N

APPENDIX-C

ENCLOSURES

1. Publication Certificates :





ISSN 2582-7421

International Journal of Research Publication and Reviews

(Open Access, Peer Reviewed, International Journal)

(A+ Grade, Impact Factor 5.536)

Sr. No: IJPRR 111691-3

Certificate of Acceptance & Publication

This certificate is awarded to "Kishor Kumar K R 3", and certifies the acceptance for publication of research paper entitled "CSR Connect: A Hub for Corporate Social Responsibility" in "International Journal of Research Publication and Reviews", Volume 5, Issue 1.

Signed

Ankush Agarwal

Date

10-01-2024

Editor-in-Chief
International Journal of Research Publication and Reviews

PLAGIARISM CHECK REPORT

UP-R4

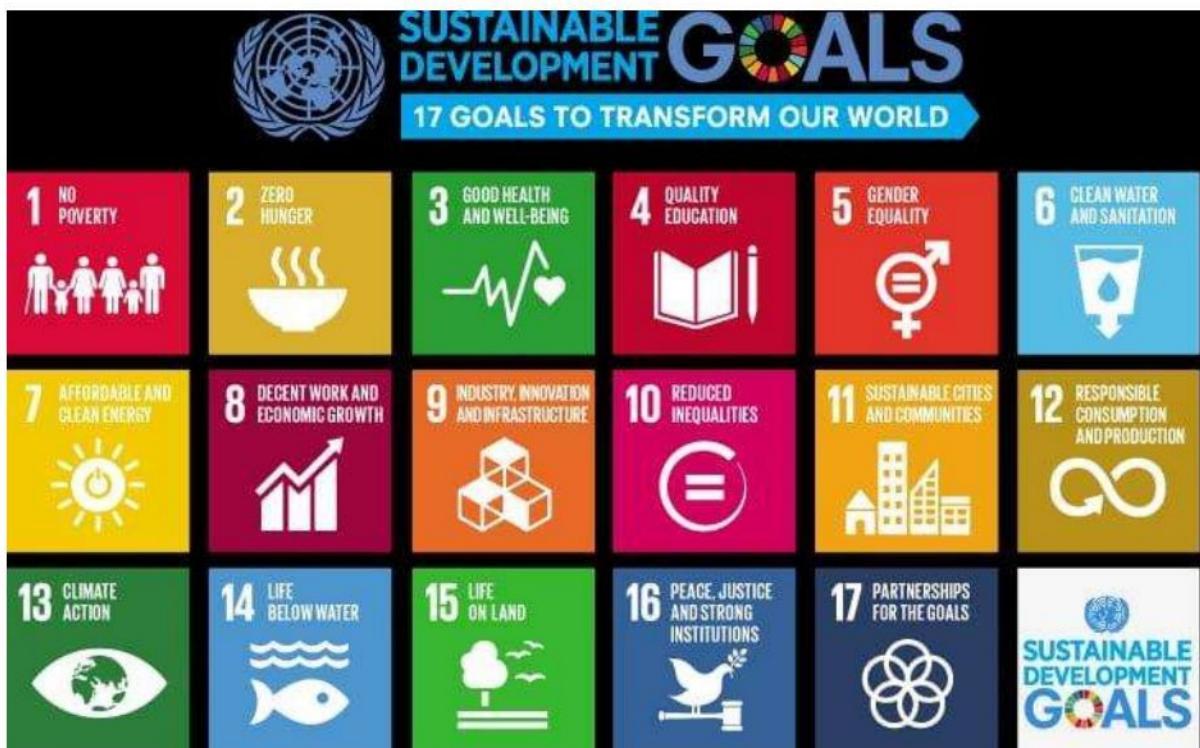
ORIGINALITY REPORT

14 %	11 %	4 %	9 %
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

1	Submitted to Presidency University Student Paper	5%
2	www.srcas.ac.in Internet Source	1%
3	www.researchgate.net Internet Source	1%
4	fastercapital.com Internet Source	1%
5	Submitted to University of Greenwich Student Paper	1%
6	Submitted to Western International College (WINC London) Student Paper	1%
7	www.coursehero.com Internet Source	1%
8	Submitted to Universiti Utara Malaysia Student Paper	<1%
9	"CSR and beyond", Cappelen Damm AS Publication	<1%

SUSTAINABLE DEVELOPMENT GOALS



Decent Work and Economic Growth (SDG 8):

Highlight employee well-being: Showcase initiatives promoting fair wages, safe working conditions, training and development opportunities, and equal access to career advancement. Demonstrate commitment to diversity and inclusion: Share efforts to create a diverse workforce reflective of your community and provide equal opportunities for everyone.

Promote sustainable business practices: Share how your operations create decent jobs throughout your supply chain, from sourcing materials to distribution.

Focus on skills development: Showcase your investment in training and education programs that equip individuals with the skills needed for the future economy.

Emphasize community engagement: Demonstrate partnerships with local communities to create employment opportunities and boost economic development.

Partnership for the Goals (SDG 17):

Highlight collaborative efforts: Outline partnerships with NGOs, government agencies, and other businesses to achieve the SDGs, specifically related to decent work and economic growth.

Showcase knowledge sharing: Illustrate how your company shares expertise and best practices with others to advance the SDGs on a larger scale.

Promote stakeholder engagement: Demonstrate active involvement with stakeholders – employees, customers, suppliers, etc. – in defining and pursuing your CSR goals related to the SDGs.

Advocate for policy change: Show your company's efforts to influence policies that support decent work and economic growth at local, national, and international levels.

Track and report progress: Share your progress towards achieving SDG targets related to decent work and economic growth, using transparent and measurable metric