

**A  
Project Report  
On  
"CI(Community Investment) Platform"**

(CE451 - Software Project Major)



**Prepared by**  
Shyam Mukeshkumar Kanjiya (19CE052)

**Under the Supervision of**  
Prof. Aayushi Chaudhari

**Submitted to**  
Charotar University of Science & Technology (CHARUSAT)  
for the Partial Fulfillment of the Requirements for the  
Degree of Bachelor of Technology (B.Tech.)  
in U & P U. Patel Department of Computer Engineering (CE)  
for B.Tech Semester 8

**Submitted at**



**Accredited with Grade A+ by NAAC**



**U & P U. PATEL DEPARTMENT OF COMPUTER ENGINEERING  
Chandubhai S. Patel Institute of Technology (CSPIT)  
Faculty of Technology & Engineering (FTE), CHARUSAT  
At: Changa, Dist: Anand, Pin: 388421.  
April, 2023**

## **DECLARATION BY THE CANDIDATE**

I hereby declare that the project report entitled “**CI(Community Investment) Platform**” submitted by me to Chandubhai S. Patel Institute of Technology, Changa in partial fulfilment of the requirements for the award of the degree of **B.Tech Computer Engineering**, from U & P U. Patel Department of Computer Engineering, CSPIT, FTE, is a record of bonafide CE447 Software Project Major (project work) carried out by me under the guidance of **Prof. Aayushi Chaudhari**. I further declare that the work carried out and documented in this project report has not been submitted anywhere else either in part or in full and it is the original work, for the award of any other degree or diploma in this institute or any other institute or university.



**(Shyam Kanjiya – 19CE052)**

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

Prof. Aayushi Chaudhari  
(Assistant Professor)  
U & P U. Patel Department of Computer Engineering,  
Chandubhai S Patel Institute of Technology (CSPIT)  
Faculty of Technology (FTE)  
Charotar University of Science and Technology (CHARUSAT) - Changa.

HR/TS/0423  
Date: 18<sup>th</sup> April 2023

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that Shyam Mukeshkumar Kanjiya was selected from Chandubhai S. Patel Institute of Technology (CHARUSAT UNIVERSITY) in Campus for internship in accordance with the college's policy.

Details of the project is as under  
Project technology: .Net Core MVC  
Project name – CI(Community Investment) Platform  
Start Date: 23-Jan-23  
End Date: 25-Apr-23

For TatvaSoft



Authorized Signatory

---

Ground Floor, Tatva House, Behind Rajpath Club Road, Opp-Golf Academy, Bodakdev,  
Ahmedabad-380054, Gujarat, India. Website: [www.tatvasoft.com](http://www.tatvasoft.com), E-mail:  
[Info@tatvasoft.com](mailto:Info@tatvasoft.com); Phone: +91 9601421472.



# CHARUSAT

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

Accredited with Grade A+ by NAAC

## CERTIFICATE

This is to certify that the report entitled “**CI(Community Investment) Platform**” is a bonafied work carried out by **Shyam Kanjiya (19CE052)** under the guidance and supervision of **Prof. Aayushi Chaudhari & Ms. Sweety Patel** for the subject **Software Project Major (CE451)** of 8<sup>th</sup> Semester of Bachelor of Technology in **Computer Engineering** at Chandubhai S. Patel Institute of Technology (CSPIT), Faculty of Technology & Engineering (FTE) – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate himself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred by the examiner(s).

Under the supervision of,

Prof. Aayushi Chaudhari  
(Assistant Professor)  
U & P U. Patel Dept. of Computer  
Engineering  
CSPIT, FTE, CHARUSAT, Changa, Gujarat

Ms. Sweety Patel  
Learning and Development Executive  
Human Resource  
Tatvasoft

Dr. Ritesh Patel  
Head - U & P U. Patel Department of Computer Engineering,  
CSPIT, FTE, CHARUSAT, Changa, Gujarat.

---

---

**Chandubhai S. Patel Institute of Technology (CSPIT)**  
**Faculty of Technology & Engineering (FTE), CHARUSAT**

At: Changa, Ta. Petlad, Dist. Anand, Pin: 388421. Gujarat.

## **ABSTRACT**

The Community Investment (CI) Platform is an innovative employee volunteer program that aims to support a company's Corporate Social Responsibility (CSR) or community engagement initiatives. The CI Platform provides a customizable and flexible platform for employees to engage in a range of social impact activities, including volunteerism, charitable donations, social advocacy, and community service. The platform's primary objectives are to build a positive brand reputation for the company and increase employee engagement and satisfaction by providing opportunities for employees to give back to the community. The CI Platform provides a customizable and flexible platform for employees to engage in a range of social impact activities, including volunteerism, charitable donations, social advocacy, and community service. The platform's primary objectives are to build a positive brand reputation for the company and increase employee engagement and satisfaction by providing opportunities for employees to give back to the community.

## ACKNOWLEDGMENT

It is indeed a great pleasure to express our thanks and gratitude to all those who helped us during the project. This project has given us a great opportunity to learn, implement and interact with various aspects of the Software Development Life Cycle. We would like to acknowledge all the people who have helped us at one stage or another by providing the much-needed support, encouragement and casework to complete our project throughout the whole internship period.

I express a deep sense of gratitude towards our external project guide **Sweety S. Patel** and internal project guide **Prof. Aayushi Chaudhari** towards their innovative ideas and earnest effort to make our project a success. It is their sincerity that prompted us throughout the project to do hard work using the industry adopted technologies. Our commitment to the application is the sole result of patience, hard work and dedication being inspired by them. They all together provided us a favorable environment. Without them, we would not have achieved our goal. A blend of gratitude, pleasure and great satisfaction is what we feel to convey our indebtedness to all those who all have directly or indirectly contributed towards completion of the project.

With Sincere Regards,

Shyam Kanjiya

## Table of Contents

Abstract .....	iv
Acknowledgement .....	v
<b>Chapter 1 Introduction.....</b>	<b>1</b>
1.1 Project Summary .....	1
1.2 Purpose .....	1
1.3 Objective .....	1
1.4 Scope .....	2
1.5 Technology Review.....	2
<b>Chapter 2 Project Management .....</b>	<b>3</b>
2.1 Project Planning .....	3
2.1.1 Project Development Approach and Justification .....	3
2.1.2 Project Effort and Time .....	4
2.1.3 Roles and Responsibilities.....	5
2.1.4 Group Discussion .....	5
2.2 Project Scheduling.....	5
<b>Chapter 3 System Requirement Study.....</b>	<b>6</b>
3.1 User Characteristics.....	6
3.2 Hardware and Software Requirement .....	6
3.3 Constrains .....	6
3.4 Assumptions and Dependencies .....	7
<b>Chapter 4 System Analysis.....</b>	<b>8</b>
4.1 Study of Current System .....	8
4.2 Problem and Weakness of Current System .....	8
4.3 Requirements of New System .....	9
4.3.1 Functional Requirement .....	9
4.3.2 Non-Functional Requirement .....	11
4.4 Feasibility Study.....	12
4.4.1 Does the system contribute to the overall objectives of the organization?.....	12
4.4.2 Can the system be implemented using the current technology and within the given cost and schedule constraints?.....	12

4.4.3 Can the system be integrated with other system which is already in place?.....	12
4.5 Activity/Process in New System .....	13
4.6 Features of New System.....	15
4.7 Use case Diagram .....	16
4.8 Class Diagram .....	17
4.9 Sequence Diagram.....	18
4.10 DFD Diagram .....	20
<b>Chapter 5 System Design.....</b>	<b>22</b>
5.1 System Application Design .....	22
5.1.1 Database Design .....	22
5.2 Input/Output and Interface Design .....	31
5.2.1 Samples of Forms, Reports and Interface .....	31
<b>Chapter 6 Implementation Planning.....</b>	<b>43</b>
6.1 Implementation Environment.....	43
6.2 Program/Modules Specification .....	43
6.3 Security Features .....	44
6.4 Coding Standards .....	44
<b>Chapter 7 Testing.....</b>	<b>45</b>
7.1 Testing Plan.....	45
7.2 Testing Strategy.....	45
7.3 Testing Suites Design.....	46
7.3.1 Test Cases.....	46
<b>Chapter 8 Conclusion and Discussion.....</b>	<b>51</b>
8.1 Conclusion.....	51
8.2 Discussion .....	51
8.2.1 Self-Analysis of Project Viabilities .....	51
8.2.2 Problems Encountered and Possible Solutions .....	51
8.2.3 Summary of Project Work.....	52
<b>Chapter 9 Limitation and Future Enhancement .....</b>	<b>53</b>
9.1 Limitation .....	53
9.2 Future Enhancement.....	53
<b>Chapter 10 References.....</b>	<b>54</b>
10.1 References .....	54



## List of Figures

Fig 2.1 Waterfall Model.....	3
Fig 4.1 Activity Diagram for Missions .....	13
Fig 4.2 Activity Diagram for Stories .....	14
Fig 4.3 Use case Diagram .....	16
Fig 4.4 Class Diagram (Continue) .....	17
Fig 4.5 Class Diagram.....	18
Fig 4.6 Sequence Diagram 1 .....	19
Fig 4.7 Sequence Diagram 2 .....	20
Fig 4.8 Level 0 DFD Diagram .....	21
Fig 4.9 Level 1 DFD Diagram .....	22
Fig 4.10 Level 2 DFD Diagram .....	23
Fig 5.1 Login Page.....	32
Fig 5.2 Forgot Password Page .....	32
Fig 5.3 Change Password Page.....	33
Fig 5.4 Registration Page.....	33
Fig 5.5 Platform Landing Page .....	34
Fig 5.6 Mission Page.....	35
Fig 5.7 Add Story Page.....	36
Fig 5.8 Story Page.....	37
Fig 5.9 Volunteering Timesheet Page.....	38
Fig 5.10 Profile Page.....	39
Fig 5.11 Policy Page .....	40
Fig 5.12 Admin side User Page .....	41
Fig 5.13 Admin side CMS Page .....	41
Fig 5.14 Admin side Mission Page .....	42
Fig 5.15 Admin side Mission Application Page .....	42
Fig 5.16 Admin side Story Page .....	43

## List of Tables

Table 2.1 Project Schedule .....	5
Table 5.1 Admin Table .....	22
Table 5.2 Banner Table.....	22
Table 5.3 City Table .....	22
Table 5.4 Country Table .....	23
Table 5.5 Comment Table.....	23
Table 5.6 CMS Page Table .....	23
Table 5.7 Favorite Mission Table .....	24
Table 5.8 Goal Mission Table.....	24
Table 5.9 Mission Application Table.....	24
Table 5.10 Mission Table .....	25
Table 5.11 Mission Document Table.....	25
Table 5.12 Mission Invite Table .....	26
Table 5.13 Mission Media Table .....	26
Table 5.14 Mission Rating Table.....	26
Table 5.15 Mission Skill Table .....	27
Table 5.16 Mission Theme Table .....	27
Table 5.17 Password Reset Table .....	27
Table 5.18 Skill Table.....	27
Table 5.19 Story Table.....	28
Table 5.20 Story Invite Table .....	28
Table 5.21 Story Media Table .....	28
Table 5.22 Timesheet Table.....	29
Table 5.23 User Table.....	29
Table 5.24 User Skill Table .....	30
Table 7.1 Testcase Table 1.....	46
Table 7.2 Testcase Table 2.....	47
Table 7.3 Testcase Table 3.....	48
Table 7.4 Testcase Table 4.....	49
Table 7.5 Testcase Table 5.....	50

## CHAPTER 1: INTRODUCTION

### 1.1 PROJECT SUMMARY

**Title :** Community Investment Platform

**Overview :**

The CI (Community Investment) Platform is an employee volunteer program that supports a company's larger Corporate Social Responsibility (CSR) or community engagement program. The purpose of the platform is to provide an avenue for employees to engage with the community and contribute to social impact initiatives.

### 1.2 PURPOSE

The purpose of the CI Platform is twofold.

First, it aims to build a positive brand reputation for the company by demonstrating its commitment to social responsibility and community development.

Second, it aims to increase employee engagement and satisfaction by providing opportunities for employees to give back to the community.

### 1.3 OBJECTIVE

- Enhance the company's reputation and image through its commitment to social responsibility
- Improve employee engagement, job satisfaction, and retention
- Build stronger relationships with the community and other stakeholders
- Contribute to social impact initiatives that align with the company's values and mission
- Foster a culture of social responsibility and philanthropy within the company.

## 1.4 SCOPE

The CI Platform covers a range of social impact initiatives, including community service, volunteerism, charitable donations, and social advocacy. The platform is designed to be flexible and customizable to meet the unique needs and priorities of each company and its employees.

## 1.5 TECHNOLOGY REVIEW

**Platform:** SQL Server 2022

It maintains the database tables and related stored procedures.

**Language:** SQL

**Platform:** .NET Core MVC

.Net Core Provides LINQ to easily access the data/ sql queries/Stored Procedures from SQL database.

**Language:** C# / HTML / CSS / JavaScript

**Other tools:** VS Code, Visual Studio, SQL server Management Studio

## CHAPTER 2: PROJECT MANAGEMENT

### 2.1 PROJECT PLANNING

#### 2.1.1 Project Development Approach and Justification

I will use the Iterative Waterfall Model for Project Development, because it requires a lot of evaluation and testing phases, for making the system work in an efficient way. After every refining process, modifications are reflected to nullify the limitations and inaccuracy of the application, and the modules are tested individually and integrated. These are repeated a couple of times before a final application is produced.

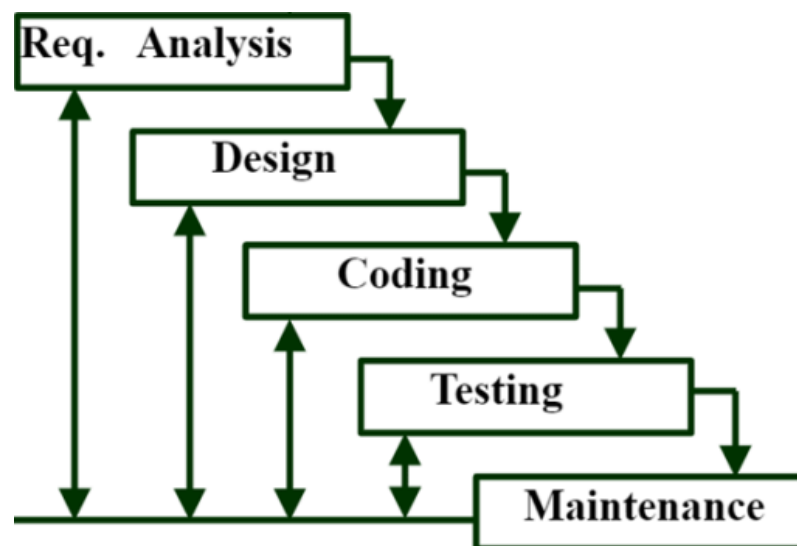


Fig 2.1 Waterfall Model

#### Phases of Iterative Waterfall Model

1. Requirement Analysis
2. Software Design
3. Coding
4. Testing
5. Software Maintenance

**Advantages of Iterative Waterfall Model**

- The Iterative waterfall model is very easy to understand and use.
- Every phase contains a feedback path to its previous phase.
- This is a simple way to make changes or any modifications at any phase.
- By using this model, developers can complete projects earlier.
- Customer involvement is not required during software development.

**Disadvantages of Iterative Waterfall Model**

- There is no feedback path for the feasibility study phase.
- This model is not suitable if requirements are not clear.
- It can be costlier.
- There is no process for risk handling.
- Customers can view the final project, no prototype for taking customer review. This model does not work well for short projects.
- If modifications are required repeatedly then it can be more complex projects.

**2.1.2 Project Development Approach and Justification**

When I started the project I lacked the knowledge regarding the technology I have used. It is the base of the whole project. So first I learnt as much as possible regarding the same and soon as I gained the confidence I started with some basic features to implement. I faced many difficulties from starting but as I moved further and having some little knowledge gained I was able to solve the problems. I needed some help from coordinator sometimes but soon I developed the logic and were able to tackle it. I then moved to implement advanced features but I was not able to figure out that what particular approach I should take to implement some features. In the process I researched many new features provided by the framework and I started implementing them. Also in some cases I found more than one method and I was able to judge which method is more feasible and efficient to use. But the time required for all this was longer than I thought.

### 2.1.3 Roles and Responsibilities

#### Shyam

- Analysis
- Coding (UI/UX)
- Database
- Testing
- Documentation

### 2.1.4 Group Discussion

CI(Community Investment) platform was a solo project so there is no discussion in group. But I generally discuss which approach is the best for feature with my coordinator and seniors.

## 2.2 PROJECT SCHEDULING

In managing any project, the whole plan of the project is made before its actual implementation. The plan of the project helps the team to work as per the schedule and helps to successfully complete the project. To plan a project the main requirements that are calculated are cost, duration, effort, scheduling, manpower, resource allocation, risk management etc. The plan of our project is as follows:

Table 2.1 Project Schedule

Task Start	Time End	Time	Duration
Requirement And Analysis	06-02-2023	08-02-2023	3 days
Design	09-02-2023	28-02-2023	19 days
Development	01-03-2023	05-04-2023	35 days
Testing	06-04-2023	11-04-2023	6 days

## **CHAPTER 3: SYSTEM REQUIREMENT STUDY**

### **3.1 USER CHARACTERISTICS**

The primary users of the platform are likely to be employees of the company who are interested in participating in community service, volunteerism, and other social impact initiatives. User characteristics may include their level of education, job function, work experience, interests, and availability for volunteer work.

### **3.2 HARDWARE AND SOFTWARE REQUIREMENT**

#### **Software requirements**

- SQL Server
- .NET CORE
- IIS Express
- Visual Studio
- SQL Server Management Studio

#### **Hardware requirements**

- Windows
- Core i3 CPU
- 4gb RAM
- 20 GB storage space

### **3.3 CONSTRAINT**

#### **Hardware Limitations**

There is only one limitation of this application, that is it will work only on a web-based system.



**Interface to other applications**

There are no other systems that use this application as an interface.

**Reliability Requirements**

The application must adhere to the reliability requirements as needed and should run smoothly. It must show real time data.

**Criticality of the Application**

The application does not respond if there is any server unavailability.

**3.4 ASSUMPTIONS AND DEPENDENCIES**

- Users have sufficient privileges to access the internet.
- All Servers are running smoothly.
- User has basic knowledge about Community Activities.
- Memory 1-2GB Ram (dependent on model size)
- Resolution at least 720p @ 60Hz display (Full HD or higher recommended)
- Display between 4.7 and 6 inches

## CHAPTER 4: SYSTEM ANALYSIS

### 4.1 STUDY OF THE CURRENT SYSTEM

**Workplace giving:**

Current system enables employees to make donations to non-profit organizations through a payroll deduction program, which can be customized to align with the company's values and CSR goals.

**Volunteerism:**

The platform provides opportunities for employees to engage in volunteer activities, such as donating their time to a local charity or participating in a company-sponsored volunteering event.

**Corporate matching:**

Current system enables companies to match employee donations to non-profits, thereby increasing the impact of their employees' contributions.

**Reporting and analytics:**

The platform provides real-time reporting and analytics that allow companies to track employee participation and the impact of their CSR programs.

### 4.2 PROBLEMS & WEAKNESSES OF CURRENT SYSTEM

The following Problems exist in current system,

- Lack of employee participation: Despite the best intentions, some employees may not be interested in participating in the program or may not have the time or resources to contribute.
- Inconsistent program implementation: If the program is not implemented consistently across different departments or regions, it can lead to confusion, uneven participation, and difficulties in tracking the impact of the program.
- Lack of sustained engagement: A one-time volunteer event or charitable donation may generate positive publicity, but sustained engagement is needed

to make a significant impact in the community and to create long-term benefits for the company and its employees

## 4.3 REQUIREMENTS OF NEW SYSTEM

### 4.3.1 Functional Requirement

#### User:

- View Mission Details
- Search/Filter/Sort Missions
- Apply For Mission
- Add Story/Post Comment on Mission
- Add to favorite/ Give Ratings to Mission
- Recommended to Co Worker

#### 1. Mission:

(Missions refers to the activities that includes Goals which are completed by the employees and help the community with various ways, also build the positive brand reputation or increase the employee engagement in the community.)

- Get All Mission  
Input Time Period  
Output : Total Missions count , display all closed/requested/applies missions with main details.
- Search Mission  
Input : Search  
Output : Display missions which contain searchquery.

- Filter Mission  
Input : Select filter  
Output : Display result according to filter.
- Sort Mission  
Input : Select sort option  
Output : Display missions with sorting.
- Mission Application  
Input : Mission & User Id  
Output : Store the application data in db.
- Add Mission  
Input : UserId , Mission Data  
Output : Store the mission in DB.
- Add Comment  
Input : UserId, MissionId and Comment  
Output : Add comment to that mission.
- Add/remove to favorite  
Input : Click on like button /MissionId  
Output : Display mission
- Give Ratings  
Input : MissionId/UserId/Ratings  
Output : Display user rating to the mission
- Recommend to Co-Worker  
Input : List of user with email id  
Output : Send mail with link to selected list

**2. Story:**

- View Stories

Input : Time period

Output : Display list of stories.

- Add Story

Input : UserId, MissionId. Story data

Output : Store the story in db.

**4.3.2 Non-Functional Requirement****Security:**

Security is the primary requirement of any system. This platform must maintain/process data in a secure way so unauthorized entities do not have illegal access to it.

**Performance:**

To ensure optimal performance, performance requirements specify how well a system should perform certain functions under specific conditions, such as response speed, throughput, execution time, and storage capacity. Performance requirements are a critical component in the design and testing of a product, as they are key indicators of its overall quality. This platform should be designed in such a way that its performance is smooth for users.

**Scalability:**

The ability to handle increasing and decreasing workloads is a key property of a system known as scalability. Scalability is a non-functional requirement that both complements and competes with other non-functional requirements like availability, reliability, and performance. It is crucial to design a system that can handle increased workloads while maintaining high performance, reliability, and availability to ensure its overall effectiveness. This platform must be

designed in such way that it is able to scale well with increasing/decreasing accesses, users etc.

**Availability:**

System must be available to authorized users when it is required. This platform must be designed in such a way that it is always available to authorized users and should handle abnormal scenarios well by displaying proper messages to users. In any abnormal situations, the user's data should not be lost.

**4.4 FEASIBILITY STUDY****4.4.1 Does the system contribute to the overall objectives of the organization?**

- Yes, the system contributes to the overall objectives of the organization such as: getting access to volunteer info, getting request for mission and story, etc.
- It also enhances the volunteers to make a better use of the website application with the help of filtering or searching appropriate missions, etc.

**4.4.2 Can the system be implemented using the current technology and within the given cost and schedule constraints?**

- Yes, the system can be implemented using the current technology and within the given cost and schedule constraints.

**4.4.3 Can the system be integrated with other system which are already in place?**

- Yes, the system can be implemented using the current technology and within the given cost and schedule constraints.

#### 4.5 ACTIVITY / PROCESS IN THE NEW SYSTEM

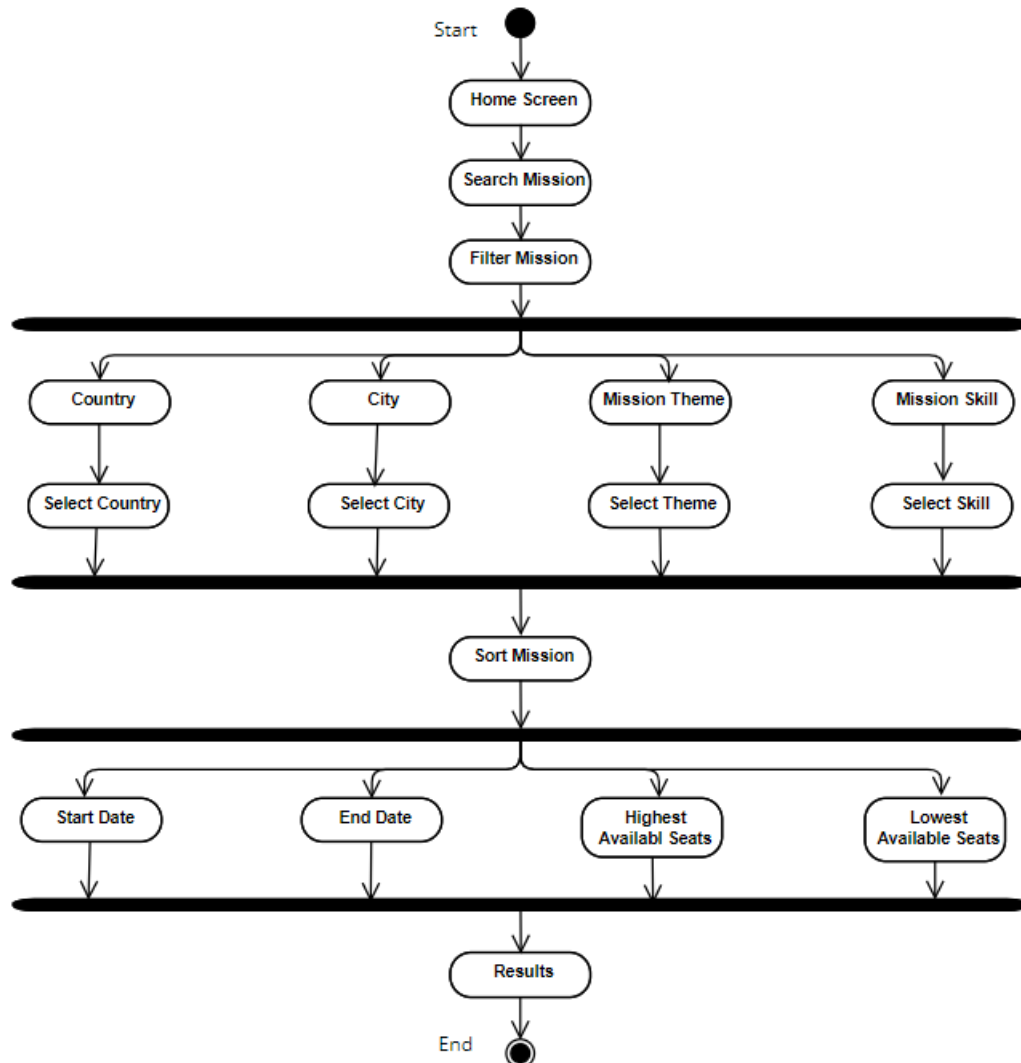


Fig 4.1 Activity Diagram for Missions

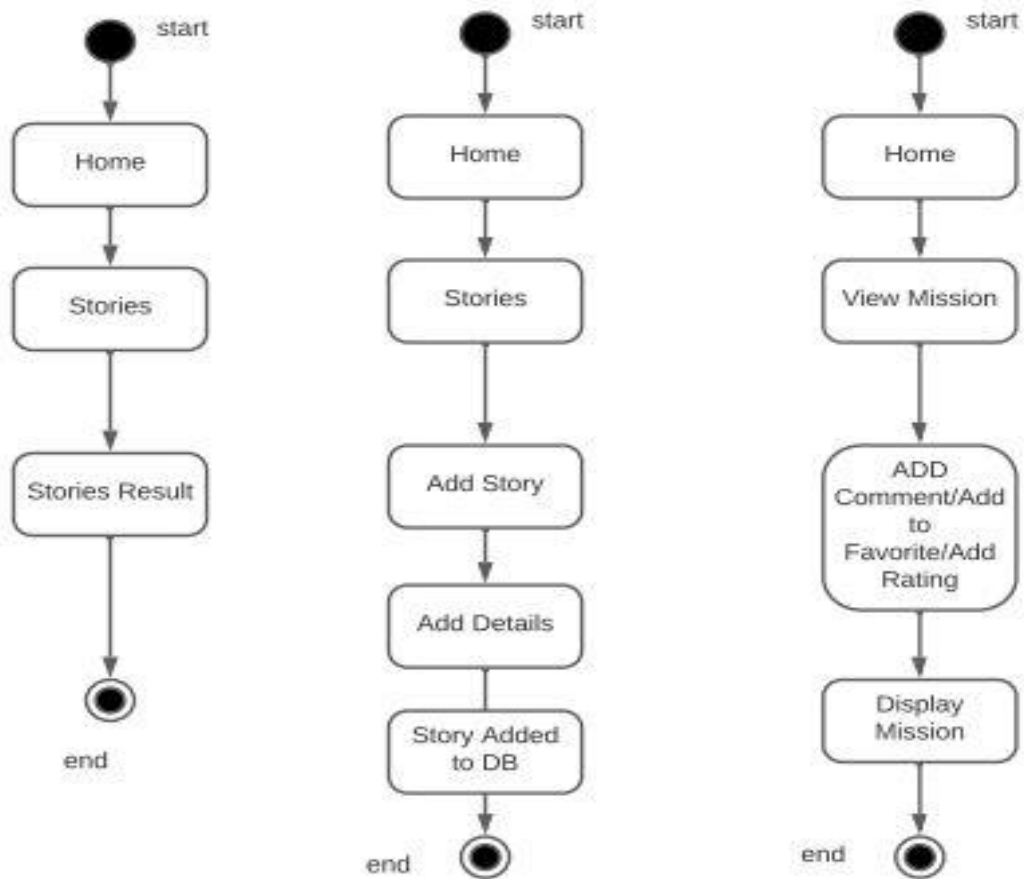


Fig 4.2 Activity Diagram for Stories



## 4.6 FEATURES OF NEW SYSTEM

### **Social Mission Participation:**

With this feature employees can engage in Social Initiatives solo or with their colleagues and Contribute in it to make a better impact.

### **Social Media Integration:**

There are Options of Story Sharing in this system that allows user to share thier story of mission participation and Activities done by them in the Mission as well as they can share the images and videos of their activities.

## 4.7 USECASE DIAGRAM

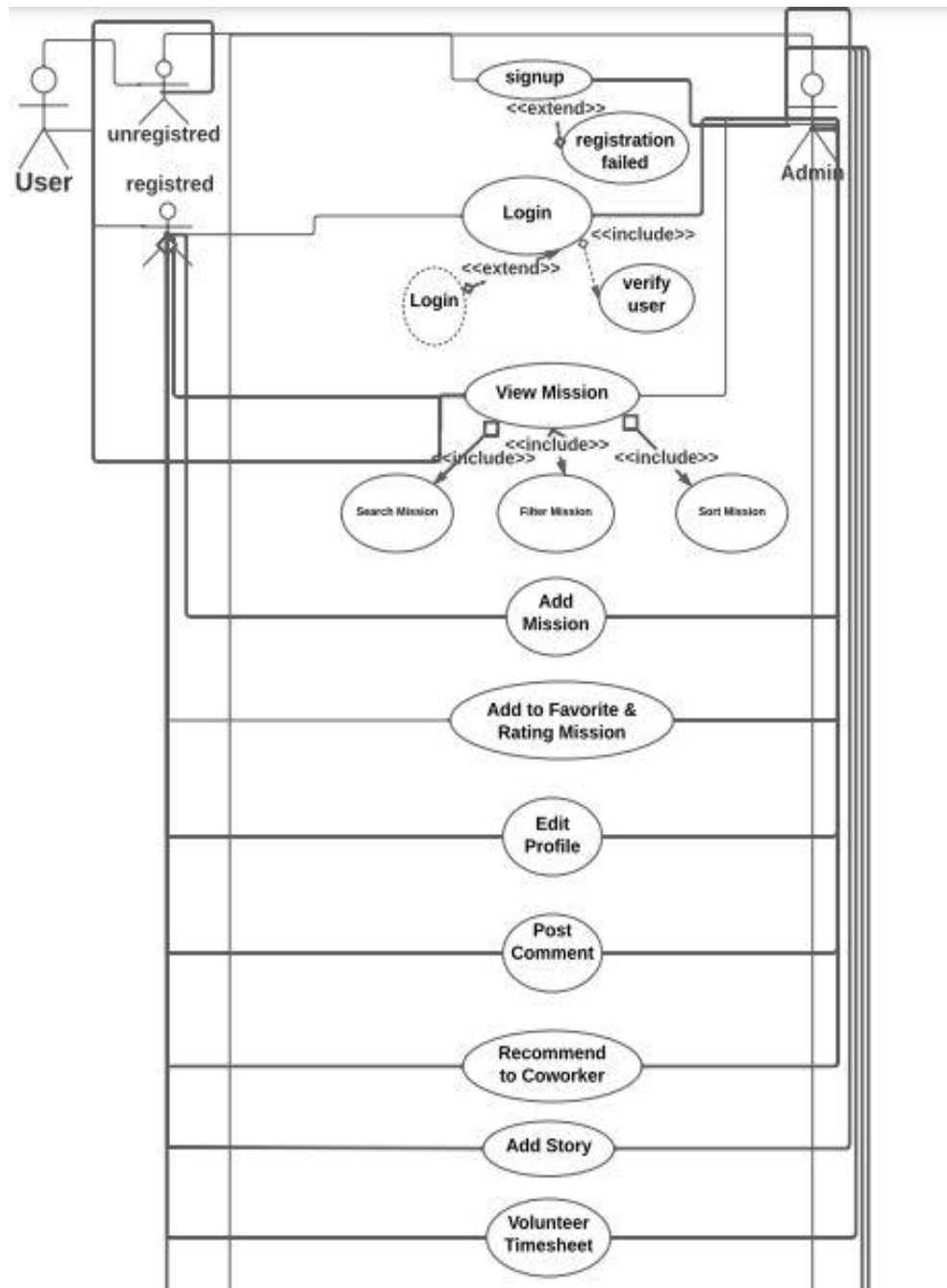


Fig 4.3 Use case Diagram

## 4.8 CLASS DIAGRAM

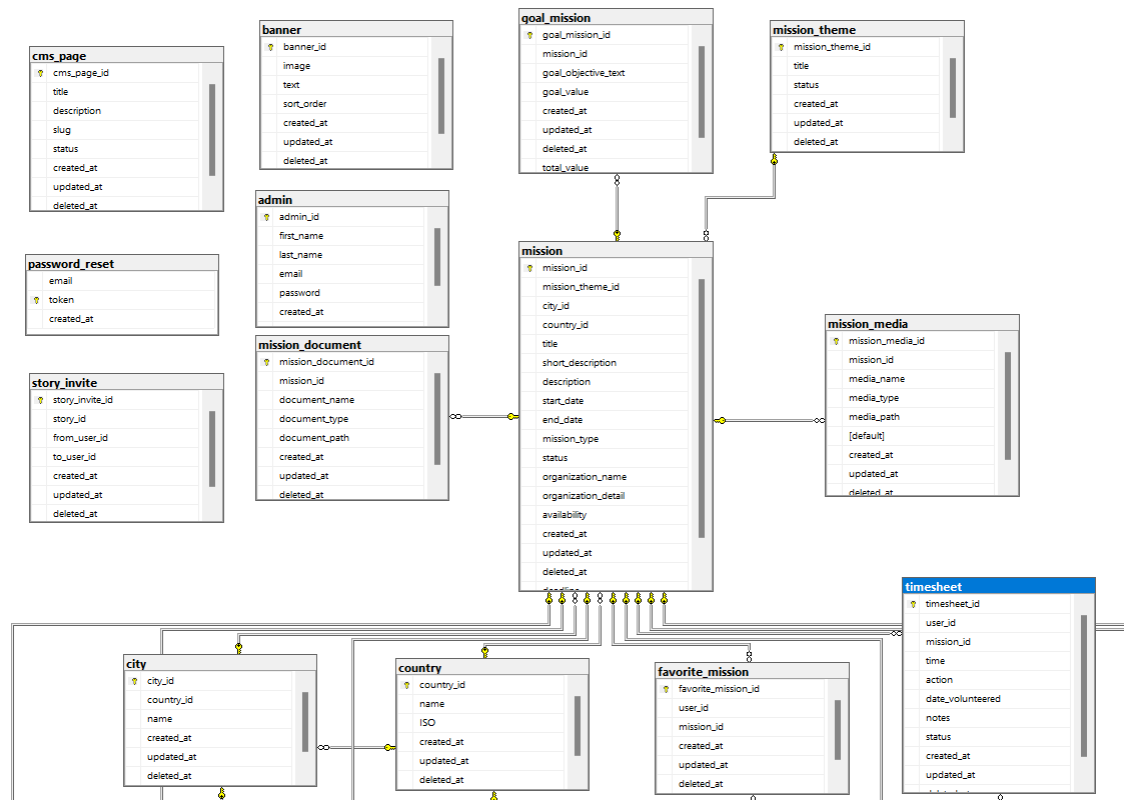


Fig 4.4 Class Diagram (Continue)

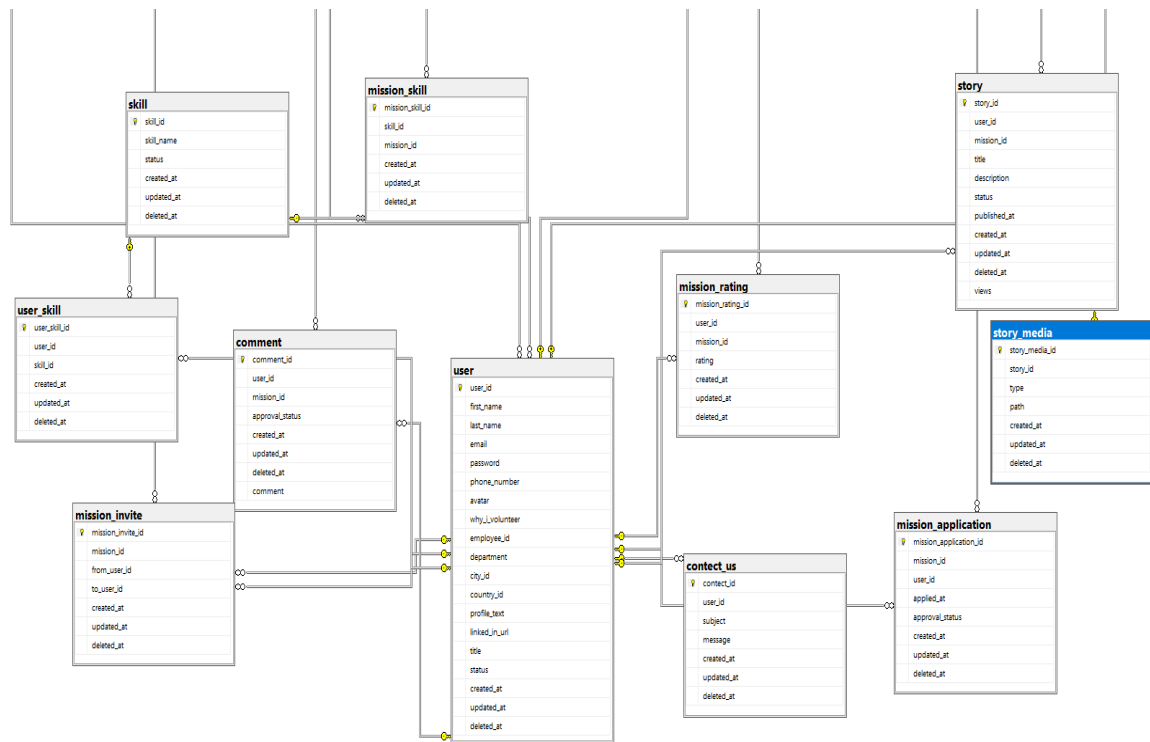


Fig 4.5 Class Diagram

## 4.9 SEQUENCE DIAGRAM

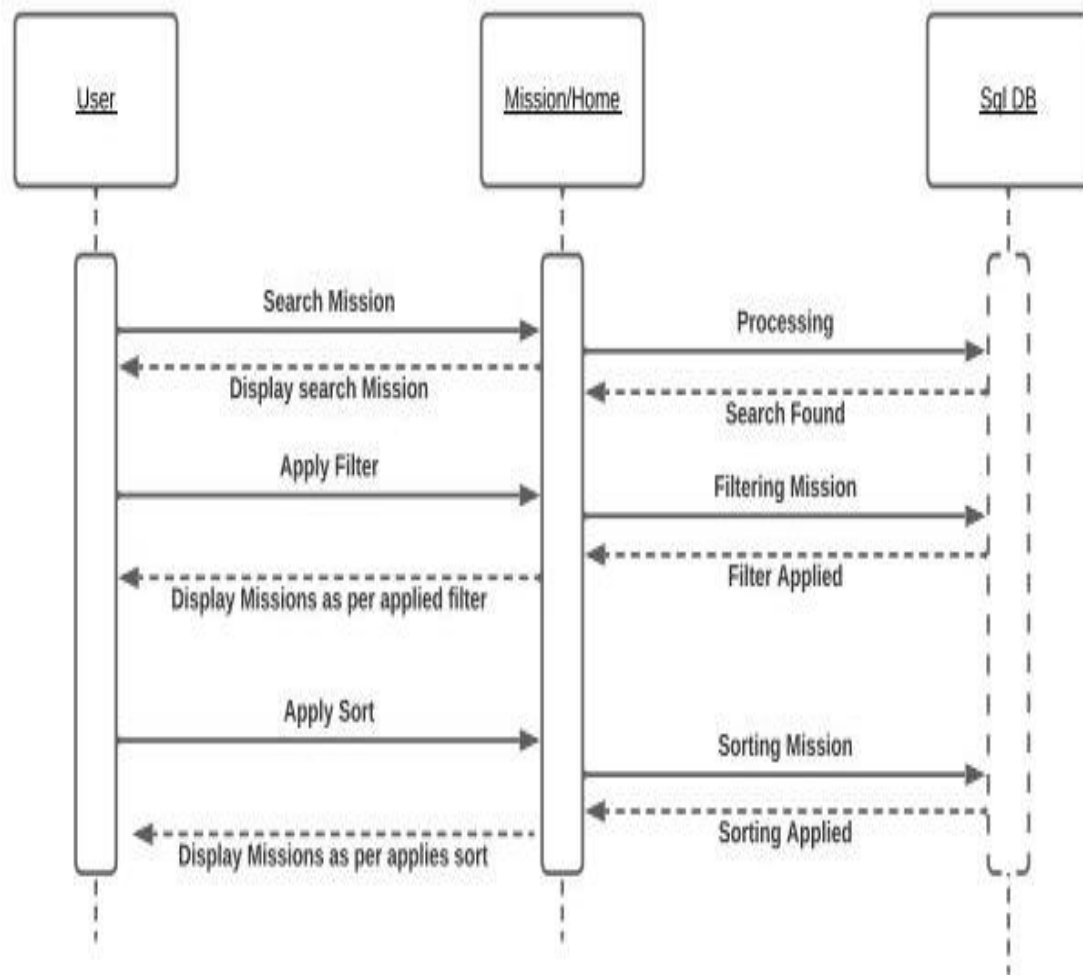


Fig 4.6 Sequence Diagram 1

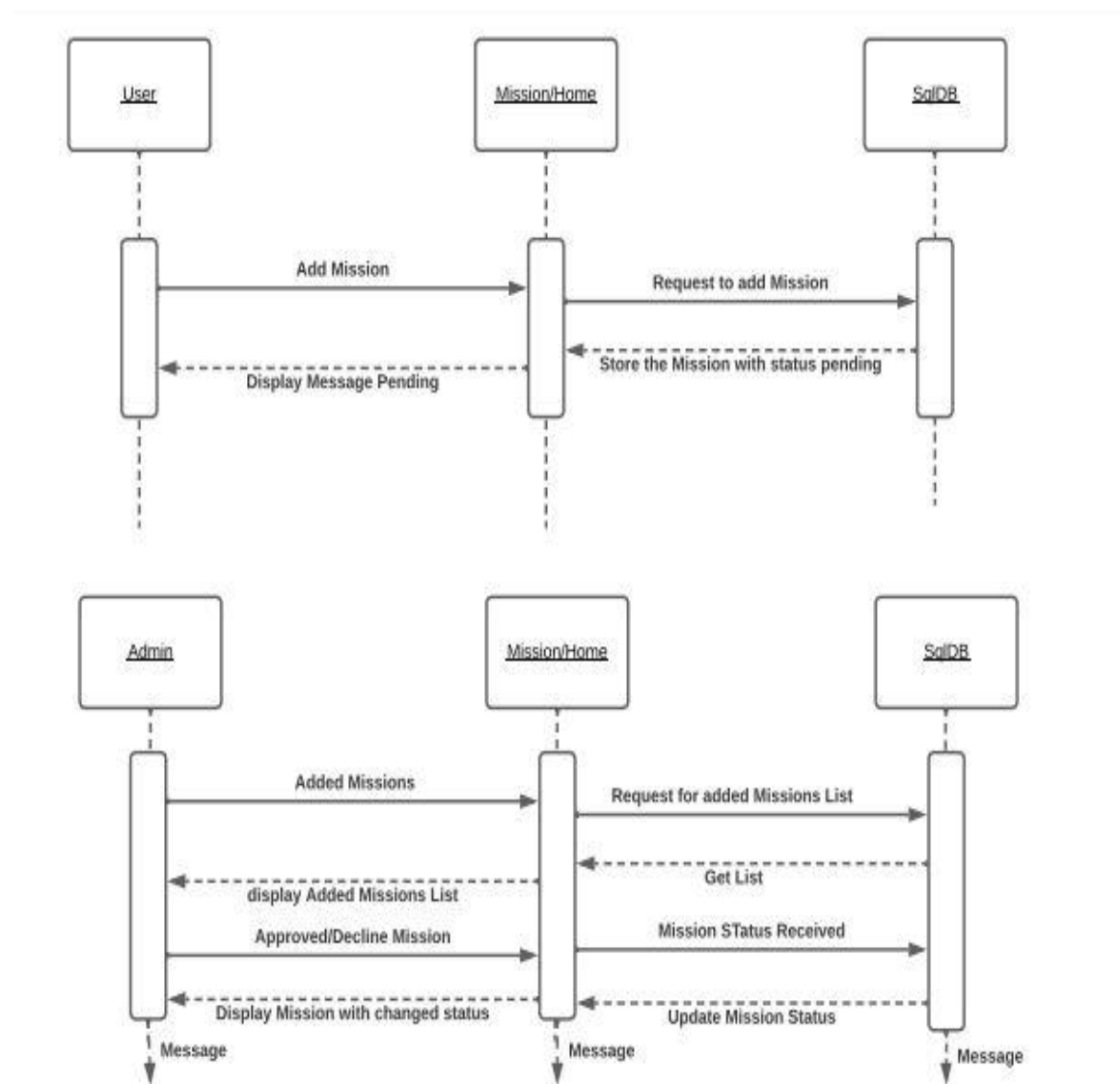


Fig 4.7 Sequence Diagram 2

## 4.10 DFD DIAGRAM

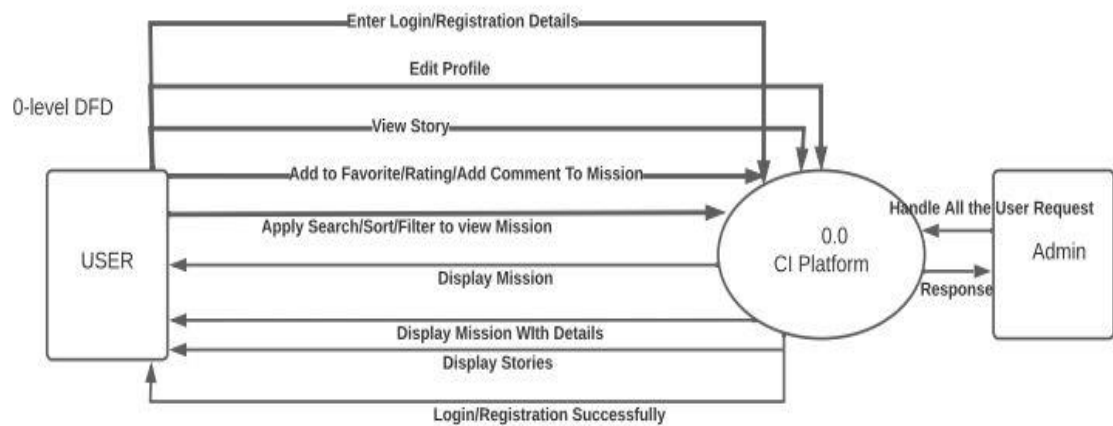


Fig 4.8 Level 0 DFD Diagram

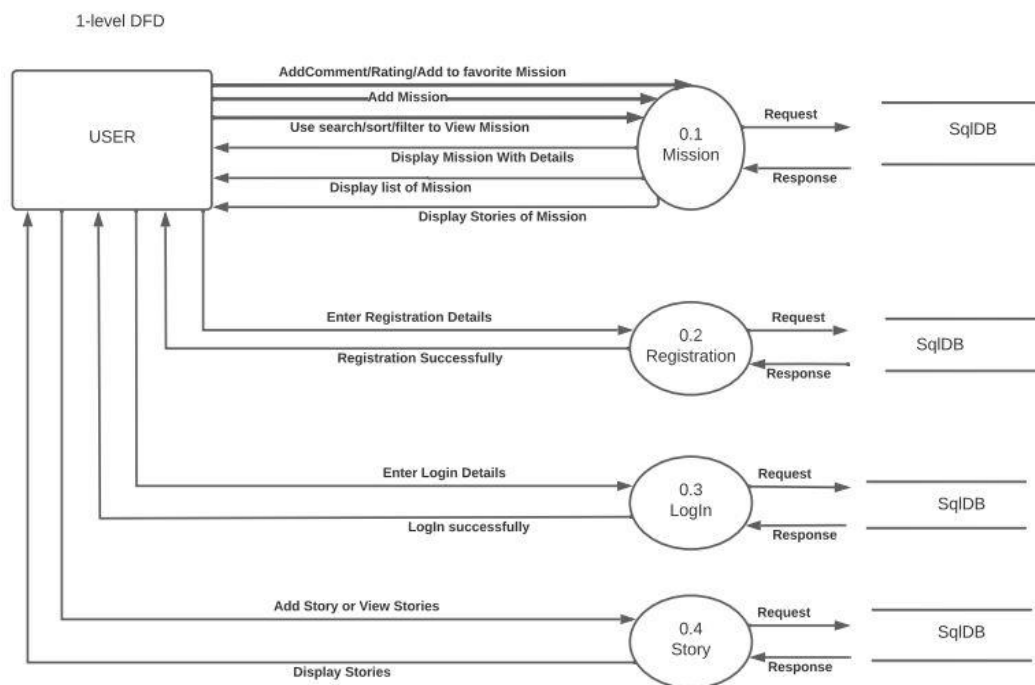


Fig 4.9 Level 1 DFD Diagram

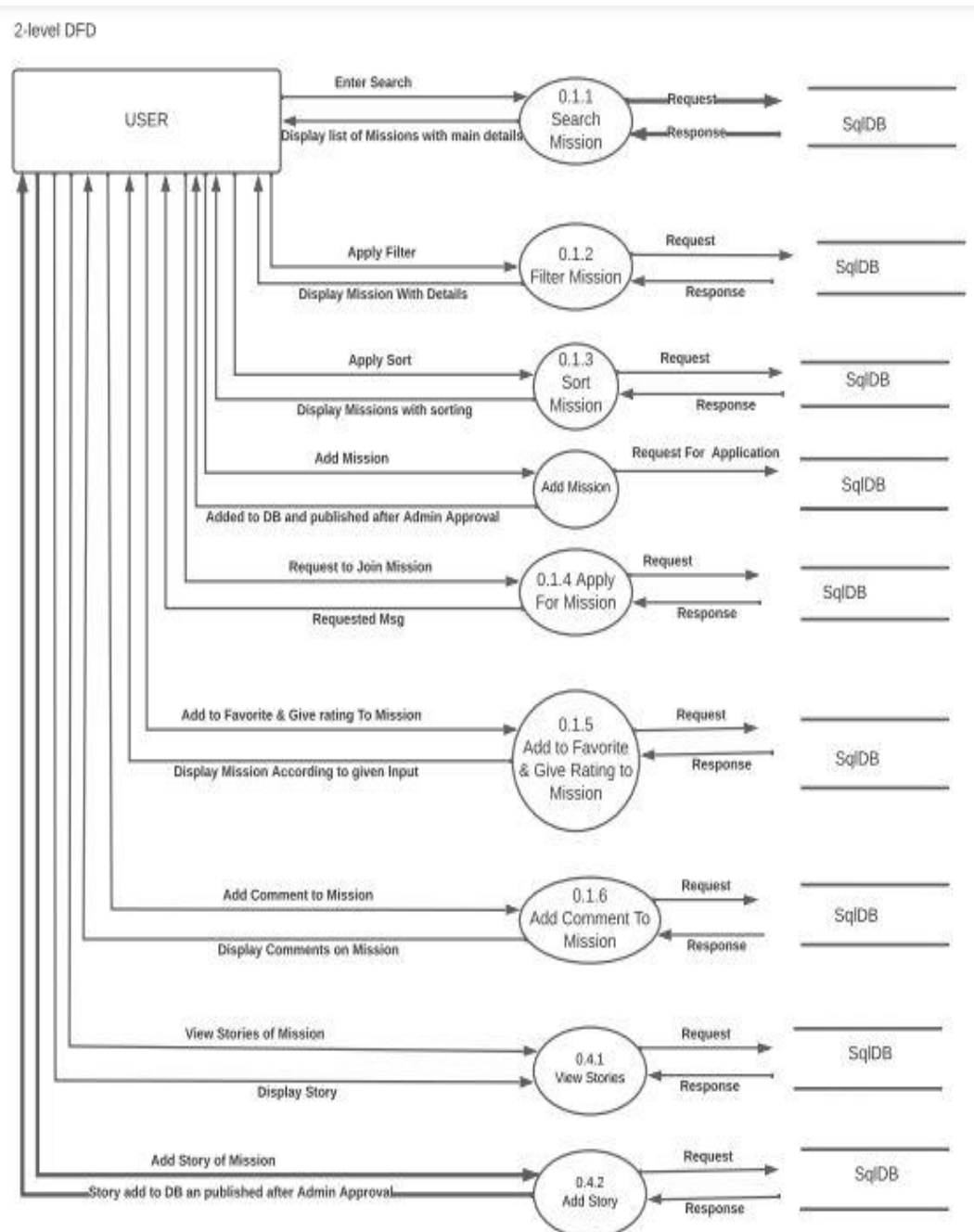


Fig 4.10 Level 2 DFD Diagram



## CHAPTER 5: SYSTEM DESIGN

### 5.1 SYSTEM APPLICATION DESIGN

#### 5.1.1 Database Design

Table 5.1 Admin Table

Field	Type	Size	Null	Default	Key
<b>admin_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
first_name	varchar	16	Yes	Null	
last_name	varchar	16	Yes	Null	
email	varchar	128	No	None	
password	varchar	255	No	None	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.2 Banner Table

Field	Type	Size	Null	Default	Key
<b>banner_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
image	varchar	512	No	None	
Text	text				
sort_order	int	11		0	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.3 City Table

Field	Type	Size	Null	Default	Key
<b>city_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b>country_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (country.country_id)</b>
name	varchar	255	No	None	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.4 Country Table

Field	Type	Size	Null	Default	Key
<b>country_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
name	varchar	255	No	None	
ISO	varchar	16	Yes	None	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.5 Comment Table

Field	Type	Size	Null	Default	Key
<b>comment_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b>user_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (user .user_id)</b>
<b>mission_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (mission. mission_id)</b>
approval_status	enum	PENDING, PUBLISHED	No	PENDING	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.6 CMS Page Table

Field	Type	Size	Null	Default	Key
<b>cms_page_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
Title	varchar	255			
description	text				
Slug	varchar	255	No	None	-
status	enum	0,1		1	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.7 Favorite Mission Table

Field	Type	Size	Null	Default	Key
<b><i>favourite_mission_id</i></b>	<b><i>bigint</i></b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b><i>user_id</i></b>	<b><i>bigint</i></b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (user.user_id)</b>
<b><i>mission_id</i></b>	<b><i>bigint</i></b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (mission.mission_id)</b>
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.8 Goal Mission Table

Field	Type	Size	Null	Default	Key
<b><i>goal_mission_id</i></b>	<b><i>bigint</i></b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b><i>mission_id</i></b>	<b><i>bigint</i></b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (mission.mission_id)</b>
goal_objective_text	varchar	255	Yes	Null	
goal_value	int	11	No	None	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.9 Mission Application Table

Field	Type	Size	Null	Default	Key
<b><i>mission_application_id</i></b>	<b><i>bigint</i></b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b><i>mission_id</i></b>	<b><i>bigint</i></b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (mission.mission_id)</b>
<b><i>user_id</i></b>	<b><i>bigint</i></b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (user.user_id)</b>
applied_at	datetime		No		
approval_status	Enum	PENDING,	No	PENDING	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.10 Mission Table

Field	Type	Size	Null	Attribute	Key
<b>mission_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>UNSIGNED</b>	<b>Primary Key</b>
<b>theme_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>UNSIGNED</b>	<b>FK (mission_theme.mission_theme_id)</b>
<b>city_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>UNSIGNED</b>	<b>FK (city.city_id)</b>
<b>country_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>UNSIGNED</b>	<b>FK (country.country_id)</b>
Title	varchar	128	No		
short_description	text				
description	text				
start_date	datetime		yes		
end_date	datetime		yes		
mission_type	enum	TIME, GOAL	No		
status	enum	0,1			
organization_name	varchar	255	yes		
organization_detail	text		yes		
availability	enum	daily, weekly, week-end, monthly	yes		
created_at	timestamp	-	No	-	-
updated_at	timestamp	-	Yes	-	-
deleted_at	timestamp	-	Yes	-	-

Table 5.11 Mission Document Table

Field	Type	Size	Null	Default	Key
<b>mission_document_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b>mission_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (mission.mission_id)</b>
document_name	varchar	255			
document_type	varchar	255			
document_path	varchar	255	Yes	None	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.12 Mission Invite Table

Field	Type	Size	Null	Default	Key
<b>mission_invite_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b>mission_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (mission.mission_id)</b>
<b>from_user_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (user.user_id)</b>
<b>to_user_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (user.user_id)</b>
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.13 Mission Media Table

Field	Type	Size	Null	Default	Key
<b>mission_media_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b>mission_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (mission.mission_id)</b>
media_name	varchar	64			
media_type	varchar	4			
media_path	varchar	255	Yes	None	
default	enum	[0,1]		0	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.14 Mission Rating Table

Field	Type	Size	Null	Default	Key
<b>mission_rating_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b>user_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (user.user_id)</b>
<b>mission_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (mission.mission_id)</b>
rating	enum	1,2,3,4,5	No	None	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.15 Mission Skill Table

Field	Type	Size	Null	Default	Key
<b>mission_skill_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b>skill_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (skill.skill_id)</b>
<b>mission_id</b>	<b>bigint</b>	<b>20</b>	<b>Yes</b>	<b>Null</b>	<b>FK (mission.mission_id)</b>
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.16 Mission Theme Table

Field	Type	Size	Null	Default	Key
<b>mission_theme_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
Title	varchar	255			
status	tinyint	1	No	1	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.17 Password Reset Table

Field	Type	Size	Null	Default	Key
email	varchar	191	No	None	-
token	varchar	191	No	None	-
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-

Table 5.18 Skill Table

Field	Type	Size	Null	Default	Key
<b>skill_id</b>	<b>int</b>	<b>11</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
skill_name	varchar	64			
status	tinyint	1	No	1	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.19 Story Table

Field	Type	Size	Null	Default	Key
<b>story_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b>user_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (user.user_id)</b>
<b>mission_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (mission.mission_id)</b>
Title	varchar	255	yes	Null	
description	text		Yes	Null	
status	enum	DRAFT	No	DRAFT	
published_at	timestamp	-	Yes	Null	-
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.20 Story Invite Table

Field	Type	Size	Null	Default	Key
<b>story_invite_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b>story_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	-
<b>from_user_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	-
<b>to_user_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	-
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.21 Story Media Table

Field	Type	Size	Null	Default	Key
<b>story_media_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b>story_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (story.story_id)</b>
Type	varchar	8	No	None	
Path	text		No	None	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.22 Timesheet Table

Field	Type	Size	Null	Default	Key
<b>timesheet_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
<b>user_id</b>	<b>bigint</b>	<b>20</b>	<b>Yes</b>	<b>Null</b>	<b>FK (user.user_id)</b>
<b>mission_id</b>	<b>bigint</b>	<b>20</b>	<b>Yes</b>	<b>Null</b>	<b>FK (mission.mission_id)</b>
Time	time		Yes	None	
action	int	11	Yes	None	
date_volunteered	datetime		No	None	
notes	text		Yes	None	
status	enum	APPROVED,	No	PENDING	-
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

Table 5.23 User Table

Field	Type	Size	Null	Default	Key
<b>user_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>Primary Key</b>
first_name	varchar	16	Yes	Null	
last_name	varchar	16	Yes	Null	
email	varchar	128	No	None	
password	varchar	255	No	None	
phone_number	int	11	No	None	
avatar	varchar	2048	Yes	Null	
why_i_volunteer	text		Yes	Null	
employee_id	varchar	16	Yes	Null	
department	varchar	16	Yes	Null	
<b>city_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (city.city_id)</b>
<b>country_id</b>	<b>bigint</b>	<b>20</b>	<b>No</b>	<b>None</b>	<b>FK (country.country_id)</b>
profile_text	text		Yes	Null	
linked_in_url	varchar	255	Yes	Null	
Title	varchar	255	Yes	Null	
status	enum	0,1	No	1	
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

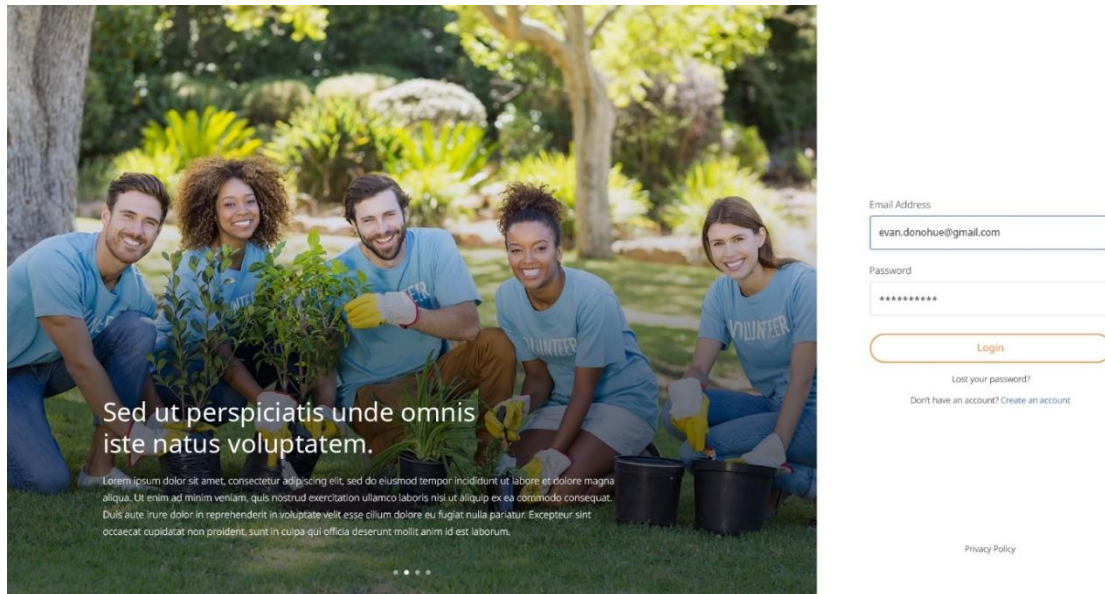


Table 5.24 User Skill Table

Field	Type	Size	Null	Default	Key
<i>user_skill_id</i>	<i>bigint</i>	<b>20</b>	<i>No</i>	<i>None</i>	<i>Primary Key</i>
<i>user_id</i>	<i>bigint</i>	<b>20</b>	<i>No</i>	<i>None</i>	<i>FK (user.user_id)</i>
<i>skill_id</i>	<i>bigint</i>	<b>20</b>	<i>No</i>	<i>None</i>	<i>FK (skill.skill_id)</i>
created_at	timestamp	-	No	CURRENT_TIMESTAMP	-
updated_at	timestamp	-	Yes	Null	-
deleted_at	timestamp	-	Yes	Null	-

## 5.2 INPUT / OUTPUT AND INTERFACE DESIGN

### 5.2.1 Samples of Forms, Reports and Interface



The login page features a hero image of five diverse volunteers in blue shirts planting a tree in a park. Overlaid on the left is a text block with a heading and a paragraph of placeholder text. On the right, the login form includes an 'Email Address' field with the example 'evan.donohue@gmail.com', a 'Password' field with masked characters, a 'Login' button, and links for 'Lost your password?' and 'Don't have an account? Create an account'. A 'Privacy Policy' link is at the bottom right.

**Sed ut perspiciatis unde omnis iste natus voluptatem.**

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute inure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Email Address  
 evan.donohue@gmail.com

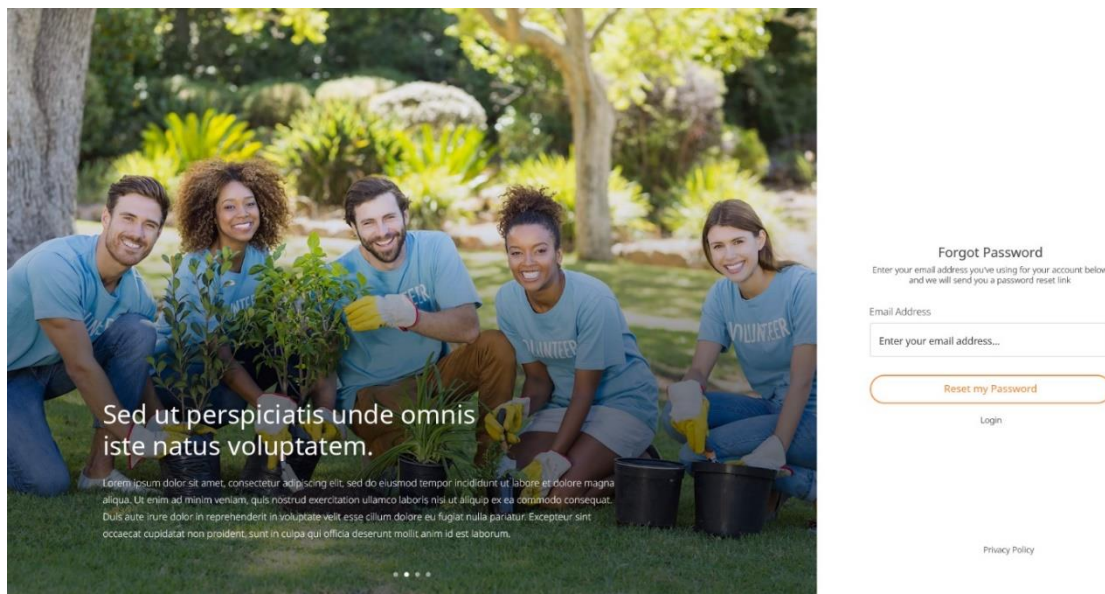
Password  
 \*\*\*\*\*

Login

[Lost your password?](#)  
[Don't have an account? Create an account.](#)

[Privacy Policy](#)

Fig 5.1 Login Page



The forgot password page uses the same hero image and text block as the login page. The form on the right is titled 'Forgot Password' and includes a sub-header 'Enter your email address you're using for your account below and we will send you a password reset link.' It features an 'Email Address' field with the placeholder 'Enter your email address...', a 'Reset my Password' button, and a 'Login' link. A 'Privacy Policy' link is at the bottom right.

**Sed ut perspiciatis unde omnis iste natus voluptatem.**

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute inure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Forgot Password

Enter your email address you're using for your account below and we will send you a password reset link.

Email Address  
 Enter your email address...

Reset my Password

[Login](#)

[Privacy Policy](#)

Fig 5.2 Forgot Password Page



**New Password**  
Please enter a new password in the fields below.

New Password:

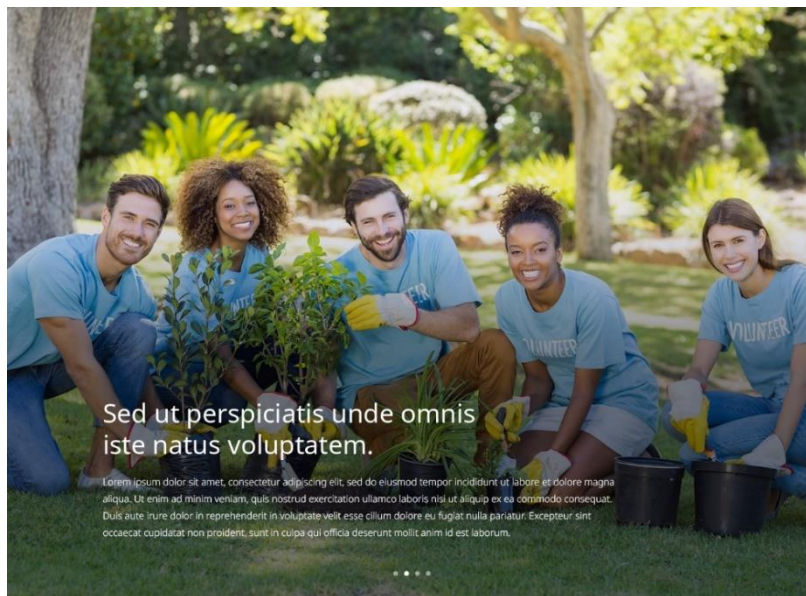
Confirm New Password:

[Change Password](#)

[Login](#)

[Privacy Policy](#)

Fig 5.3 Change Password Page



First Name

Last Name

Phone Number

Email Address

Password

Confirm Password

[Register](#)

[Lost your password?](#)

[Already registered? Login now](#)

[Privacy Policy](#)

Fig 5.4 Registration Page



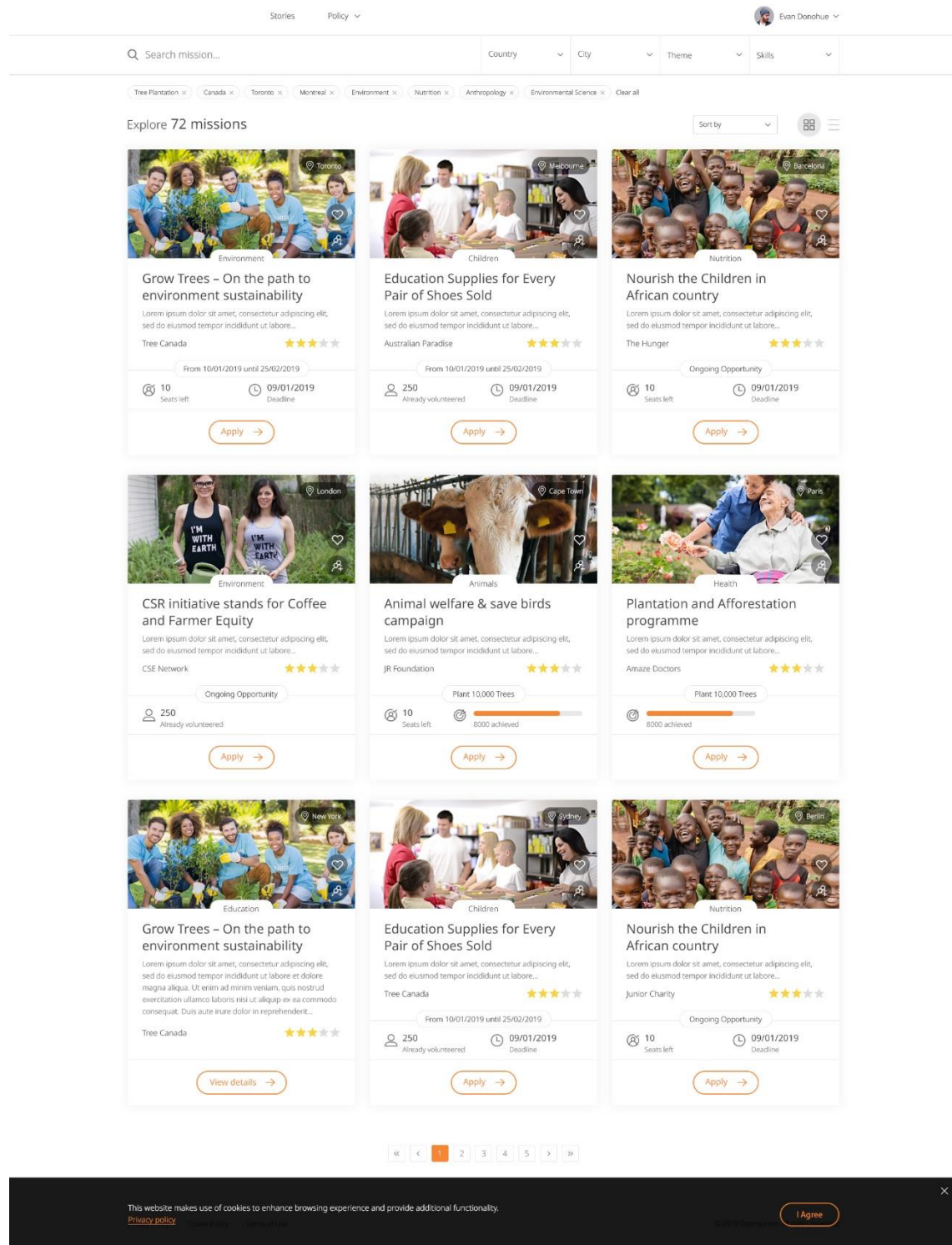


Fig 5.5 Platform Landing Page

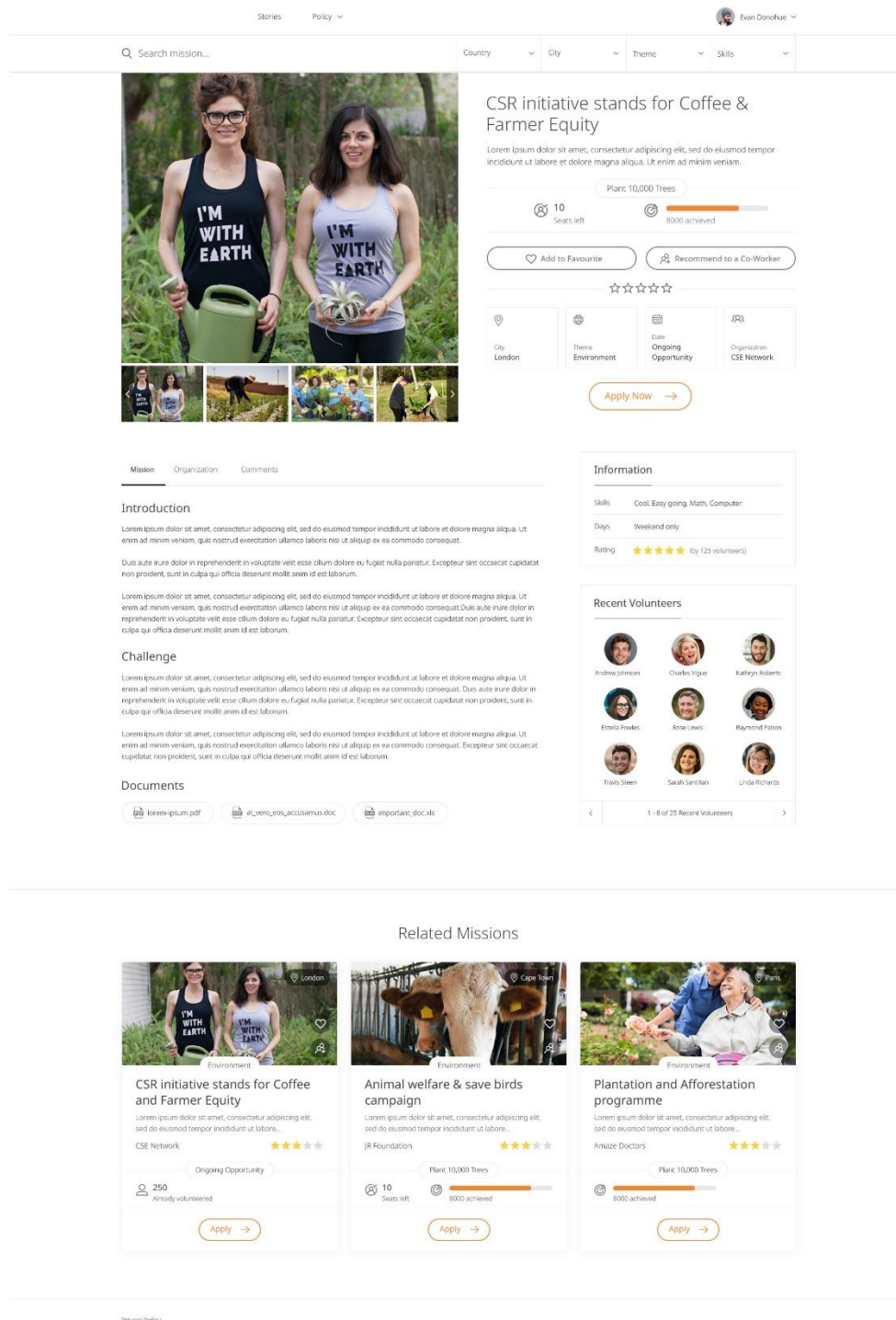



Fig 5.6 Mission Page

Stories Policy ▾  Evan Donohue ▾

---

### Share your story

Select Mission  My Story Title  Date


My Story


**B I S | x x' I x**

Sample chedditr 1

Enter Video URL

Upload your Photos

 Drag and Drop Pictures and Video here




---


[Privacy Policy](#)

Fig 5.7 Add Story Page

Stories
Policy
Evan Donohue

Search mission...
Country
City
Theme
Skills






Charles Vigue
12,000 Views

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Ut enim ad minim veniam. Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam. Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore.

Recommend to a Co-Worker
Open Mission



### Grow Tress - On the path to environment sustainability

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

We use these technologies for a number of purposes, such as:

- But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain.
- At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditis praesentium voluptatum deleniti atque excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi.
- On the other hand, we denounce with righteous indignation and dislike men who are so beguiled and demoralized
- But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain.
- Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Privacy Policy

Fig 5.8 Story Page

[Stories](#) [News](#) [Policy](#) [Evan Donohue](#) [Add Profile](#) [Volunteering Timesheet](#) [Log Out](#)

## Volunteering Timesheet

### Volunteering Hours

Mission	Date	Hours	Minutes	
Environment Conservation	22/02/2022	1h	30min	<a href="#">Add</a> <a href="#">Edit</a> <a href="#">Delete</a>

### Volunteering Goals

Mission	Date	Action	
Plantation Programme	22/02/2022	0	<a href="#">Add</a> <a href="#">Edit</a> <a href="#">Delete</a>
Education Programme	22/02/2022	1	<a href="#">Add</a> <a href="#">Edit</a> <a href="#">Delete</a>


[Privacy Policy](#) [Cookie Policy](#) [Terms of Use](#) [© 2019 Optimy.com. All rights reserved.](#)

Fig 5.9 Volunteering Timesheet Page



Stories Policy ▾

Evan Donohue ▾



Evan Donohue

### Basic Information

Name*	Surname*
<input type="text" value="Enter your name"/>	<input type="text" value="Enter your surname"/>
Employee ID	Manager
<input type="text" value="Enter your employee id"/>	<input type="text" value="Enter your manager details"/>
Title	Department
<input type="text" value="Enter your employee id"/>	<input type="text" value="Enter your manager details"/>

My Profile\*

Why I Volunteer?

### Address Information

City	Country*
<input type="text" value="Enter your city"/>	<input type="text" value="Select your country"/>

### Professional Information

Availability	LinkedIn
<input type="text" value="Select your availability"/>	<input type="text" value="Enter linkedin URL"/>

### My Skills

Anthropology

Archaeology

Astronomy

Computer Science

Environmental Science

History

Add Skills


Save

Privacy Policy

Fig 5.10 Profile Page

Stories

Policy

 Evan Donohue

---

## Privacy and Cookies Policy

Introduction

How does use cookies?

How to manage your cookie preferences?

### Introduction

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

### How does use cookies?

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt.

### Why Optimy Uses These Technologies?

We use these technologies for a number of purposes, such as:

- But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain.
- At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditis praesentium voluptatum deleniti atque corrupti sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi.
- On the other hand, we denounce with righteous indignation and dislike men who are so beguiled and demoralized
- But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain.
- Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt.

### How to manage your cookie preferences?

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur.

### Subtitle goes here

1. But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain.
  - 1.1. On the other hand, we denounce with righteous indignation and dislike men who are so beguiled.
  - 1.2. On the other hand, we denounce with righteous indignation and dislike men who are so beguiled.
2. At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditis praesentium voluptatum deleniti atque corrupti sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi.
3. On the other hand, we denounce with righteous indignation and dislike men who are so beguiled and demoralized
4. But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain.
5. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore

### The first level heading - H1

### The second level heading - H2

### The third level heading - H3

### The forth level heading - H4

### The fifth level heading - H5

### The sixth level heading - H6

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Fig 5.11 Policy Page

Thursday, November 3, 2022, 10:06 AM

User

Q Search

+ Add

First Name	Last Name	Email	Employee Id	Department	Status	Action
Adam	Baldwin	Adam12546@yahs.com	1364978456	HR	Active	
Peter	Wallace	Peter42546@yahs.com	1364975623	Sales	Active	
Jacob	Dunn	Jacob25546@yahs.com	1364975656	HR	Active	
Terry	Adams	Terry25546@yahs.com	1364974556	Sales	Active	
Aida	Bugg	Aida425546@yahs.com	1364974556	HR	Active	
Olive	Yew	Olive25546@yahs.com	1364974123	HR	Active	
Peter	Wallace	Peter45546@yahs.com	1364974471	Sales	Active	
Teri	Dactyl	Teri145546@yahs.com	1364974461	HR	Active	
Allie	Grater	Allie145546@yahs.com	1364974465	HR	Active	
Rose	Bush	Rose45546@yahs.com	1364974445	Sales	Active	

« < 1 2 3 4 5 > »

Fig 5.12 Admin side User Page

Thursday, November 3, 2022, 10:06 AM

CMS Page

Q Search

+ Add

Title	Status	Action
Desktop publishing software like Aldus PageMaker including versions the leap into electronic typesetting.	Active	
Various versions have evolved over the years Many desktop publishing packages and web page editors	Active	
A Latin professor at Hampden-Sydney College in Virginia.	Active	
Suffered alteration in some form, by injected humour, or randomised words	Active	
Et harum quidem rerum facilis est et expedita distinctio., very popular during the Renaissance.	Active	
Maiores alias consequat aut perferendis doloribus asperiores repellat	Active	
Our power of choice is untrammelled and when nothing prevents obst.	Active	
Beguiled and demoralized by the charms of pleasure of the moment,	Active	
Untrammelled and when nothing prevents our being able to do what we like best. 10.32 and 1.10.33 from "de Finibus Bono".	Active	
Oluptates repudiandae sint et molestiae non recusandae.	Active	

« < 1 2 3 4 5 > »

Fig 5.13 Admin side CMS Page

Thursday, November 3, 2022, 10:06 AM

Evan Donohue

NAVIGATION

- User
- CMS Page
- Mission**
- Mission Theme
- Mission Skills
- Mission Application
- Story
- Banner Management

### Mission

Q Search

+ Add

Mission Title	Mission Type	Start Date	End Date	Action
Desktop publishing software	Time	05/02/2019	10/02/2019	
Various versions have evolved over	Goal	10/02/2019	15/02/2020	
A Latin professor at Hampden-Sydney	Goal	04/06/2020	20/06/2020	
Suffered alteration in some form	Goal	15/07/2020	24/07/2020	
Et harum quidem rerum facilis est	Time	02/06/2021	06/06/2021	
Maiores alias consequatur aut	Goal	12/06/2021	14/06/2021	
Our power of choice is untrammelled	Time	03/06/2021	04/06/2021	
Begulled and demoralized by the charms	Goal	30/07/2021	05/08/2021	
Untrammelled and when nothing prevents	Time	05/08/2021	12/08/2021	
Oluptates repudiandae sint et molestiae	Goal	02/12/2021	12/12/2021	

« < 1 2 3 4 5 > »

Fig 5.14 Admin side Mission Page

Thursday, November 3, 2022, 10:06 AM

Evan Donohue

NAVIGATION

- User
- CMS Page
- Mission
- Mission Theme
- Mission Skills
- Mission Application**
- Story
- Banner Management

### Mission Application

Q Search

Mission Title	Mission Id	User Id	User Name	Applied Date	Action
Desktop publishing software	5164978456	1364978456	Adam Baldwin	15/02/2019	
Various versions have evolved over	5164975623	1364975623	Peter Wallace	20/02/2020	
A Latin professor at Hampden-Sydney	5164975656	1364975656	Jacob Dunn	24/06/2020	
Suffered alteration in some form	5164974556	1364974556	Peg Legge	08/08/2020	
Et harum quidem rerum facilis est	5164974569	1364974569	Aida Bugg	09/06/2021	
Maiores alias consequatur aut	5164974556	1364974123	Olive Yew	19/06/2021	
Our power of choice is untrammelled	5164974123	1364974471	Peter Wallace	05/06/2021	
Begulled and demoralized by the charms	5164974471	1364974461	Teri Dactyl	05/08/2021	
Untrammelled and when nothing prevents	5164974461	1364974465	Allie Grater	12/08/2021	
Oluptates repudiandae sint et molestiae	5164974445	1364974445	Rose Bush	12/12/2021	

« < 1 2 3 4 5 > »

Fig 5.15 Admin side Mission Application Page

NAVIGATION

- User
- CMS Page
- Mission
- Mission Theme
- Mission Skills
- Mission Application
- Story**
- Banner Management

Thursday, November 3, 2022, 10:06 AM

Story

Q Search

Story Title	Full Name	Mission Title	Action
Desktop publishing software also the leap into	Adam Baldwin	Desktop publishing software	<a href="#">View</a>
Various versions have evolved over sometimes	Peter Wallace	Various versions have evolved over	<a href="#">View</a>
A Latin professor at Hampden-Sydney like Aldus PageMaker i	Jacob Dunn	A Latin professor at Hampden-Sydney	<a href="#">View</a>
Suffered alteration in some form still in their infancy.	Peg Legge	Suffered alteration in some form	<a href="#">View</a>
Et harum quidem rerum facilis est. make a type specimen book	Aida Bugg	Et harum quidem rerum facilis est	<a href="#">View</a>
Maiores alias consequat aut doloribus asperiores repellat	Olive Yew	Maiores alias consequat aut	<a href="#">View</a>
Our power of choice is untrammelled f business it will frequently	Peter Wallace	Our power of choice is untrammelled	<a href="#">View</a>
Begulled and demoralized by the charms. to avoid worse pains	Teri Dactyl	Begulled and demoralized by the charms	<a href="#">View</a>
Untrammelled and when nothing prevents	Allie Grater	Untrammelled and when nothing prevents	<a href="#">View</a>
Oluptates repudiandae sint et molestiae same	Rose Bush	Oluptates repudiandae sint et molestiae	<a href="#">View</a>

« < 1 2 3 4 5 > »

Fig 5.16 Admin side Story Page

## CHAPTER 6: IMPLEMENTATION PLANNING

### 6.1 IMPLEMENTATION ENVIRONMENT

The application is a single user system with GUI. For the implementation of the project, we will need following as basic platforms and tools:

- SQL Server Management Studio- This Software used for relating and work with different SQL Servers
- Visual Studio- This IDE used for back-end related work.
- Visual Studio Code- This IDE used for front-end related work.

I am using tech. like html, CSS, JavaScript and JavaScript Library, .NET core, SQL server.

### 6.2 PROGRAMS AND MODULES SPECIFICATION

Our application mainly divides into three parts:

- **Mission:**
  - All Missions (closed/applied/requested)
  - Search/Filter/Sort Mission, Add to favorite, Ratings, Comments,
  - Mission Application, Volunteers, Recommend to co-worker.
- **Story:**
  - All stories of mission,
  - Add story of mission which volunteer takes part
- **Admin:**
  - Handle user requests, Manage CMS pages

### 6.3 SECURITY FEATURES

Hashing is a highly effective security measure for password storage in databases. It encrypts plain text passwords into unique hashed values, making it practically impossible to reverse engineer without a decryption key. This ensures that even if an unauthorized party gains access to the database, they will not be able to read the passwords in plain text format. Using hashing provides an additional layer of protection for sensitive data, ensuring user passwords remain secure and confidential, even in the event of a security breach.

### 6.4 CODING STANDARDS

To make the system coding easy, easy to remember and reducing the chances of errors some techniques are used at the time of coding of the application which is called coding standard. The coding standard which we adopted during the coding is explained as follows:

- The correct indentation and spacing should be used for each nested block.
- The code should include clear and concise comments to enhance its readability and comprehension.
- Adding comments that explain the purpose and functionality of statements can improve the clarity and comprehensibility of code.
- Better to avoid use of digits in variable names.
- Function names should follow camel case convention, beginning with a lowercase letter.
- Function names should be descriptive and provide a clear and concise indication of their purpose and functionality.

## CHAPTER 7: TESTING

### 7.1 TESTING PLAN

The testing technique that is going to be used in the project is White box testing. In White box testing the Tester has knowledge about the internal structure of the code or the program of the software.

#### **White Box Testing:**

It is a software testing process in which the internal structure, design and coding of the software is tested to ensure the flow of input-output and improve design, usability and security.

Out of the 2 methods for testing, black box testing and white box testing, we would be using the white box testing as we are well aware of the internal functionalities of our application unlike in the black box testing.

### 7.2 TESTING STRATEGY

The development process repeats this testing subprocess a number of times for the following phases.

#### **Unit Testing:**

It ensures that all code meets quality standards before it's deployed. Also, it detects software bugs earlier.

#### **Integration Testing:**

It tests whether the various programs that make up a system, interface with each other as desired, fit together and whether the interfaces between the programs are correct.



## 7.3 TESTING SUITES DESIGN

### 7.3.1 Test Cases

Table 7.1 Testcase Table 1

No.	Action	Test Case Summary	Prerequisite	Expected Result	Actual Result	Status
1	Login	Log in using email and password	The user must have a valid email address and password	The user should be able to log in successfully with the provided email and password.	The user can log in successfully with the provided email and password.	PASS
2	Register	Register with First Name, Last Name, Email, Password, Confirm Password, and Phone Number	The user should be on the registration page.	The user should be registered successfully without any errors.	The user is registered successfully without any error.	PASS
3	Forgot Password	Reset Password - Send Email with Reset Password Link to User with Token and Verify Token Match	The user should have a registered email address in the application.	<ul style="list-style-type: none"> <li>An email with a reset password link should be sent to the user's email address.</li> <li>The reset password link should contain a token.</li> <li>The token in the reset password link should match the token with the database.</li> <li>The password should be reset successfully and the user should be able to log in with the new password.</li> </ul>	<ul style="list-style-type: none"> <li>An email with a reset password link is sent to the user's email address.</li> <li>The reset password link contains a token.</li> <li>The token in the reset password link matches the token with the database.</li> <li>The password is reset successfully and the user can log in with the new password.</li> </ul>	PASS
4	Check User Type on Login	Check User Type on Login	The user must have a valid email address and password	If the user is an admin, they should be logged into the admin dashboard. If the user is normal, they should be logged into the <u>Mission Landing Page</u> .	If the user is an admin, they are logged into the admin dashboard. If the user is normal, they are logged into the <u>Mission Landing Page</u> .	PASS
5	Filter Missions	Filter missions by country, city, theme, and skill-wise	Logged into the mission management system with appropriate access levels	Only missions related to the selected country, city, theme, and skill should be displayed	Missions related to the selected country, city, theme, and skill are displayed	PASS

Table 7.2 Testcase Table 2

No.	Action	Test Case Summary	Prerequisite	Expected Result	Actual Result	Status
6	Mission Status based on End Date	Check mission status based on the end date	Logged into the mission management system with appropriate access levels, Missions with different statuses (pending, ongoing, closed), and end dates	<ul style="list-style-type: none"> <li>Missions with end dates in the future should be marked as "Pending"</li> <li>Missions with end dates in the past and no completion status should be marked as "Ongoing"</li> <li>Missions with end dates in the past and completion status should be marked as "Closed"</li> </ul>	<ul style="list-style-type: none"> <li>Missions with end dates in the future are marked as "Pending"</li> <li>Missions with end dates in the past and no completion status are marked as "Ongoing"</li> <li>Missions with end dates in the past and completion status are marked as "Closed"</li> </ul>	PASS
7	Check the status of the "Apply" button	Check the status of the "Apply" button based on the user's application status	Logged into the mission management system with appropriate access levels, Missions with different application statuses (already applied, pending, apply)	<ul style="list-style-type: none"> <li>If the user has already applied for the mission, the "Apply" button should be disabled and labeled as "Already Applied"</li> <li>If the user has a pending application for the mission, the "Apply" button should be disabled and labeled as "Pending"</li> <li>If the user has not applied for the mission, the "Apply" button should be enabled and labeled as "Apply"</li> </ul>	<ul style="list-style-type: none"> <li>If the user has already applied for the mission, the "Apply" button is disabled and labeled as "Already Applied"</li> <li>If the user has a pending application for the mission, the "Apply" button is disabled and labeled as "Pending"</li> <li>If the user has not applied for the mission, the "Apply" button is enabled and labeled as "Apply"</li> </ul>	PASS
8	Check user actions without login	Check user actions (recommend mission, like a mission, apply for the mission, go to story) without login	Logged out of the mission management system Test	<ul style="list-style-type: none"> <li>The "Recommend Mission" button should be disabled, as the user is not logged in</li> <li>The "Like" button should be disabled, as the user is not logged in</li> <li>The "Apply" button should be disabled, as the user is not logged in</li> <li>Clicking on the "Go to Story" button should redirect to the login page, as the user is not logged in</li> </ul>	<ul style="list-style-type: none"> <li>The "Recommend Mission" button is disabled, as the user is not logged in</li> <li>The "Like" button is disabled, as the user is not logged in</li> <li>The "Apply" button is disabled, as the user is not logged in</li> <li>Clicking on the "Go to Story" button redirects to the login page, as the user is not logged in</li> </ul>	PASS
9	Check user actions with login	Check user actions (recommend mission, like a mission, apply for the mission, go to story) with login	Logged into the mission management system with appropriate access levels	<ul style="list-style-type: none"> <li>The "Recommend Mission" button should be enabled, as the user is logged in</li> <li>The "Like" button should be enabled, as the user is logged in</li> <li>The "Apply" button should be enabled, as the user is logged in</li> <li>Clicking on the "Go to Story" button should redirect to the mission story page</li> </ul>	<ul style="list-style-type: none"> <li>The "Recommend Mission" button is enabled, as the user is logged in</li> <li>The "Like" button is enabled, as the user is logged in</li> <li>The "Apply" button is enabled, as the user is logged in</li> <li>Clicking on the "Go to Story" button redirects to the mission story page</li> </ul>	PASS
10	Check rating and comments functionality	Check rating and comments functionality	Logged into the mission management system with appropriate access levels, mission details page loaded	<ul style="list-style-type: none"> <li>The submitted rating and comment should be displayed correctly on the mission details page</li> <li>The submitted rating and comment should be saved and persisted in the system</li> </ul>	<ul style="list-style-type: none"> <li>The submitted rating and comment are displayed correctly on the mission details on page</li> <li>The submitted rating and comments are saved and persisted in the system</li> </ul>	PASS

Table 7.3 Testcase Table 3

No.	Action	Test Case Summary	Prerequisite	Expected Result	Actual Result	Status
11	Check story creation	Check story creation with title, short description, description, and media	Logged into the mission management system with appropriate access levels, stories creation page loaded	<ul style="list-style-type: none"> <li>The story should be successfully created with the provided title, short description, description, and media</li> <li>The created story should be visible in the stories list or gallery</li> </ul>	<ul style="list-style-type: none"> <li>The story is successfully created with the provided title, short description, description, and media</li> <li>The created story is visible in the stories list or gallery</li> </ul>	PASS
12	Check draft story creation	Check draft story creation when clicking on the "Save" button	Logged into the mission management system with appropriate access levels, stories creation page loaded	<ul style="list-style-type: none"> <li>The story should be successfully saved as a draft with the provided title, short description, description, and media</li> <li>The saved draft should be visible in the stories list or gallery with a draft status</li> </ul>	<ul style="list-style-type: none"> <li>The story is successfully saved as a draft with the provided title, short description, description, and media</li> <li>The saved draft is visible in the stories list or gallery with a draft status</li> </ul>	PASS
13	Verify that draft stories are at the story listing	Verify that draft stories are not displayed in the story listing	Logged into the mission management system with appropriate access levels, stories listing page loaded	No draft stories should be displayed in the stories listing	No draft stories are displayed in the stories listing	PASS
14	Verify Mission type at filling timesheet	Verify that only time-type missions are displayed in the time type selection for filling the volunteering timesheet of applied missions	Logged into the mission management system with appropriate access levels, applied missions with time-type selected	<ul style="list-style-type: none"> <li>Only time-type missions should be displayed in the time-type selection options</li> <li>No other mission type (e.g., goal type) should be displayed in the time type selection</li> <li>The timesheet should be successfully submitted or saved for the selected time-type mission</li> </ul>	<ul style="list-style-type: none"> <li>Only time-type missions are displayed in the time-type selection options</li> <li>No other mission type (e.g., goal type) is displayed in the time type selection</li> <li>The timesheet is successfully submitted or saved for the selected time-type mission</li> </ul>	PASS
15	Verify Mission type at filling timesheet	Verify that only goal-type missions are displayed in the time type selection for filling the volunteering timesheet of applied missions	Logged into the mission management system with appropriate access levels, applied missions with goal-type selected	<ul style="list-style-type: none"> <li>Only goal-type missions should be displayed in the goal-type selection options</li> <li>No other mission type (e.g., time type) should be displayed in the goal type selection</li> <li>The timesheet should be goal types submitted or saved for the selected goal-type mission</li> </ul>	<ul style="list-style-type: none"> <li>Only goal-type missions are displayed in the goal-type selection options</li> <li>No other mission type (e.g., time type) is displayed in the goal type selection</li> <li>The timesheet is goal types submitted or saved for the selected goal-type mission</li> </ul>	PASS

Table 7.4 Testcase Table 4

No.	Action	Test Case Summary	Prerequisite	Expected Result	Actual Result	Status
16	Change Profile	Verify that a user can change his/her profile details including name, surname, password, profile photo, and about user information	Logged into the mission management system with appropriate access levels, user profile page loaded	<ul style="list-style-type: none"> <li>The user's name and surname should be updated with the new values</li> <li>The user's password should be successfully changed to the new password</li> <li>The new profile photo should be uploaded and displayed for user</li> <li>The user's information should be updated with the new value</li> <li>The profile changes should be successfully saved and reflected on the profile page after refreshing</li> </ul>	<ul style="list-style-type: none"> <li>The user's name and surname are updated with the new values</li> <li>The user's password is successfully changed to the new password</li> <li>The new profile photo is uploaded and displayed for user</li> <li>The user's information is updated with the new value</li> <li>The profile changes are successfully saved and reflected on the profile page after refreshing</li> </ul>	PASS
17	Mission CRUD	Add, Edit, and Delete Mission as Admin	The user must be logged in as an admin and have access to the Mission section	<ul style="list-style-type: none"> <li>The mission should be added successfully with the provided details.</li> <li>The mission details should be updated successfully with the new details.</li> <li>The mission should be deleted successfully without any error.</li> </ul>	<ul style="list-style-type: none"> <li>The mission is added successfully with the provided details.</li> <li>The mission details are updated successfully with the new details.</li> <li>The mission is deleted successfully without any error.</li> </ul>	PASS
18	Mission Theme CRUD	Add, Edit, Activate, and Deactivate Mission Theme	The user must be logged in as an admin and have access to the Mission Theme section.	<ul style="list-style-type: none"> <li>The theme should be added successfully with the provided details.</li> <li>The theme details should be updated successfully with the new details.</li> <li>The theme should be activated and deactivated successfully without any error.</li> <li>The theme should be deleted successfully without any errors.</li> </ul>	<ul style="list-style-type: none"> <li>The theme is added successfully with the provided details.</li> <li>The theme details are updated successfully with the new details.</li> <li>The theme is activated and deactivated successfully without any error.</li> <li>The theme is deleted successfully without any error.</li> </ul>	PASS
19	Mission Skills CRUD	Add, Edit, Activate, and Deactivate Mission Skill	The user must be logged in as an admin and have access to the Mission Skills section.	<ul style="list-style-type: none"> <li>The skill should be added successfully with the provided details.</li> <li>The skill details should be updated successfully with the new details.</li> <li>The skill should be activated and deactivated successfully without any error.</li> <li>The skill should be deleted successfully without any error.</li> </ul>	<ul style="list-style-type: none"> <li>The skill is added successfully with the provided details.</li> <li>The skill details are updated successfully with the new details.</li> <li>The skill is activated and deactivated successfully without any error.</li> <li>The skill is deleted successfully without any error.</li> </ul>	PASS
20	Active and Deactivate a User as Admin	Activate and Deactivate Normal User as Admin	The user must be logged in as an admin and have access to the User section.	<ul style="list-style-type: none"> <li>The user should be activated successfully without any error.</li> <li>The activated user should be deactivated successfully without any error.</li> </ul>	<ul style="list-style-type: none"> <li>The user is activated successfully without any error.</li> <li>The activated user is deactivated successfully without any error.</li> </ul>	PASS

Table 7.5 Testcase Table 5

No.	Action	Test Case Summary	Prerequisite	Expected Result	Actual Result	Status
21	CMS Page (Privacy Policy) CRUD	Add, Edit, Activate, and Deactivate Privacy Policy	The user must be logged in as an admin and have access to the CMS Page section.	<ul style="list-style-type: none"> <li>The policy should be added successfully with the provided details.</li> <li>The policy details should be updated successfully with the new details.</li> <li>The policy should be activated and deactivated successfully without any error.</li> <li>The policy should be deleted successfully without any errors.</li> </ul>	<ul style="list-style-type: none"> <li>The policy is added successfully with the provided details.</li> <li>The policy details are updated successfully with the new details.</li> <li>The policy is activated and deactivated successfully without any error.</li> <li>The policy is deleted successfully without any error.</li> </ul>	PASS
22	Mission Application Approve or Decline	Approve or Decline Mission Application	The user must be logged in as an admin and have access to the Mission Application section.	<ul style="list-style-type: none"> <li>The mission application should be approved successfully without any errors.</li> <li>The mission application should be declined successfully without any error.</li> </ul>	<ul style="list-style-type: none"> <li>The mission application is approved successfully without any errors.</li> <li>The mission application is declined successfully without any error.</li> </ul>	PASS
23	User's Story Approve or Decline	Approve or Decline User's Story	The user must be logged in as an admin and have access to the User's Story section.	<ul style="list-style-type: none"> <li>The user's story should be approved successfully without any errors.</li> <li>The user's story should be declined successfully without any error.</li> </ul>	<ul style="list-style-type: none"> <li>The user's story is approved successfully without any errors.</li> <li>The user's story is declined successfully without any error.</li> </ul>	PASS
24	Banner Management CRUD	Add, Edit, and Delete Banner	The user must be logged in as an admin and have access to the Banner Management section.	<ul style="list-style-type: none"> <li>The banner should be added successfully with the provided details.</li> <li>The banner details should be updated successfully with the new details.</li> <li>The banner should be deleted successfully without any errors.</li> </ul>	<ul style="list-style-type: none"> <li>The banner is added successfully with the provided details.</li> <li>The banner details are updated successfully with the new details.</li> <li>The banner is deleted successfully without any error.</li> </ul>	PASS

## **CHAPTER 8: CONCLUSION AND DISCUSSION**

### **8.1 CONCLUSION**

In general, a well-designed and effectively implemented CI Platform using .NET and SQL can help companies to meet their social responsibility goals, increase employee engagement and satisfaction, and build positive relationships with the broader community. By addressing the limitations of the current system and incorporating future enhancements, the platform can continue to evolve and improve over time, ultimately resulting in greater social impact and value for both the company and the community.

### **8.2 DISCUSSION**

#### **8.2.1 Self-Analysis of Project Viabilities**

According to me , this project is absolutely a good start for gaining hands-on experience on projects. It is useful if it is managed according to the goal for which it is made. It also saved 3-4 hours of my time daily.

#### **8.2.2 Problems Encountered and Possible Solutions**

There are so many problems encountered during this project.

- Problem to working alone on a project, so I have to handle both the frontend and backend. Also I am not familiar with .Net earlier btw through training and learning from seniors i overcame this problem.
- Need to change some functionality fully which leads me to do the whole work again.
- Some problems are solved easily with some changes.

### **8.2.3 Summary of Project Work**

Completing this project an incredible achievement. Prior knowledge of software engineering is very helpful in overcoming various hurdles. I have done work with pre-planned scheduling related to time constraints and weekly progress in project development. I have done work with pre-planned scheduling related to time constraints and weekly progress in project development.

## **CHAPTER 9: LIMITATION AND FUTURE ENHANCEMENT**

### **9.1 LIMITATION**

- Resource constraints: Implementing and managing a CI Platform can be costly and time-consuming, requiring significant resources in terms of funding, staffing, and technology. The company may face budget constraints, difficulty in recruiting and retaining staff, and challenges in maintaining and upgrading the technology platform.
- Limited community engagement: The program may struggle to engage with the broader community and build long-term relationships with community organizations, which can limit the program's impact and effectiveness.

### **9.2 FUTURE ENHANCEMENTS**

- Gamification and social media integration: The platform could incorporate elements of gamification and social media integration to make participation more engaging and rewarding for employees. For example, employees could earn points or badges for their participation, and the platform could enable employees to share their experiences on social media.
- Mobile and remote access: The platform could be accessible via mobile devices and remote workstations, enabling employees to participate in social impact initiatives from anywhere, at any time.



## CHAPTER 10: REFERENCES

### 10.1 REFERENCES

- CSS/Bootstrap
  - <https://getbootstrap.com/>
- NET Core
  - <https://learn.microsoft.com/en-us/dotnet/core/introduction>
  - <https://www.c-sharpcorner.com/>
- SQL Server
  - <https://www.youtube.com/playlist?list=PL08903FB7ACA1C2FB>
- SQL Server Integration Services
  - [https://www.youtube.com/playlist?list=PL\\_YF--8vjjEVEXMf2hEFn0D5tEJV9kRqi](https://www.youtube.com/playlist?list=PL_YF--8vjjEVEXMf2hEFn0D5tEJV9kRqi)
  - <https://docs.microsoft.com/en-us/sql/integration-services/sql-server-integration-services?view=sql-server-ver15>
- Other
  - <https://stackoverflow.com/>

PRJ2023CE052.pdf

ORIGINALITY REPORT

15%

SIMILARITY INDEX

15%

INTERNET SOURCES

10%

PUBLICATIONS

%

STUDENT PAPERS

PRIMARY SOURCES

1

[www.coursehero.com](http://www.coursehero.com)

Internet Source

13%

2

[ejournal.uksw.edu](http://ejournal.uksw.edu)

Internet Source

2%

Exclude quotes On

Exclude matches < 2%

Exclude bibliography On