

**SEMP – II Assignments**  
**Group 20 – EduCare**  
**112003036, 112003050, 112003059**

1. Synopsis
2. Architectural Block Diagram
3. SRS
4. Project Plan
5. ER Diagram
6. DFD
7. UML Diagrams
8. Project Screenshots

# **1. Synopsis**

*Synopsis Report on  
EduCare - An Education Sponsoring Platform*

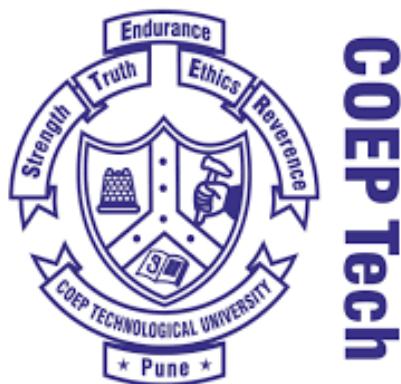
*submitted in partial fulfillment of the requirements  
for completion of SEMP II*

**TY COMP**  
*in*  
**Computer Engineering**  
*by*

**Avani Dhongde - 112003036**  
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Shivajinagar, Pune-411005, Maharashtra, INDIA

April, 2023

# **1 Project Title**

EduCare - An Education Sponsoring Platform

## **2 Problem Statement**

Children in orphanages do not always have the resources to get a good education. EduCare is a secure platform that enables people to collectively raise funds to academically sponsor orphan children. Our platform partners with orphanages and allows donors to fund money for school fees, to buy things like notebooks, stationary, uniforms, etc. It also provides donors to keep track of the childrens' progress.

## **3 Hardware and Software Requirements**

### **3.1 The Hardware Requirements:**

1. Minimum RAM: 4GB or above
2. Hard Disk: 80 GB
3. Processor: 64-bit, four-core, 2.5 GHz minimum per core

### **3.2 The Software Requirements:**

1. PHP
2. HTML CSS
3. JavaScript
4. Bootstrap PHP Integration

## 4 Architectural - Block Diagram

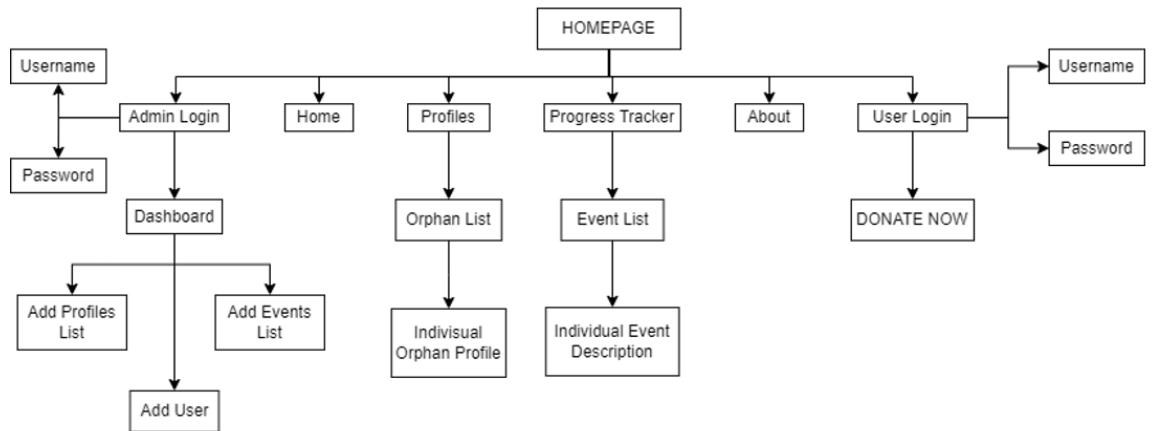
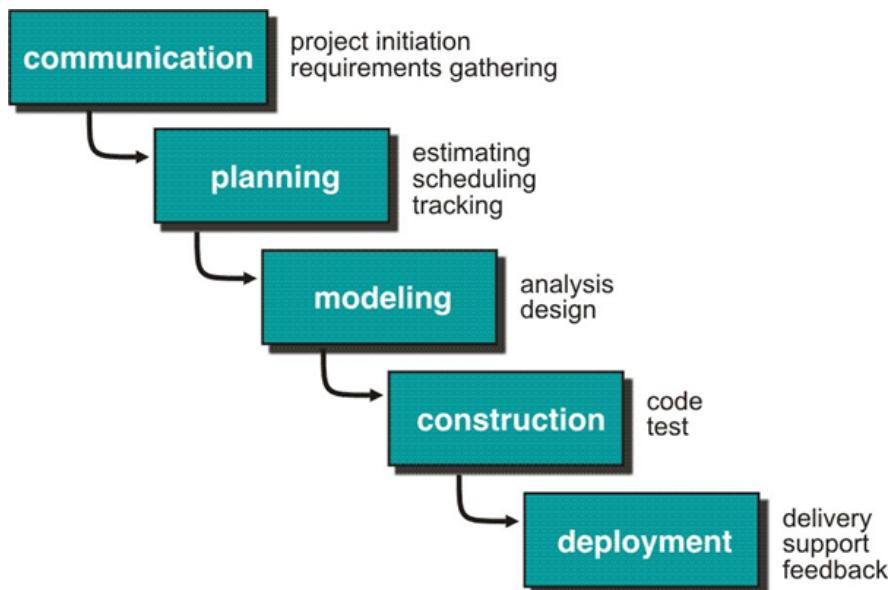


Figure 1: AB Diagram

## 5 Process Model

Our project follows **Waterfall Process Model**, the linear-sequential life cycle model. In a waterfall model, each phase must be completed before the next phase. The outcome of one phase acts as the input for the next phase sequentially and there is no overlapping in the phases.



## **Communication**

Gathering requirements like the details of the listed orphan children and funds needed for their education

## **Planning**

Estimating project requirements and scheduling progress reports

## **Modeling**

Analysis and Design of the structure of our Web-page by subdividing into pages and sections

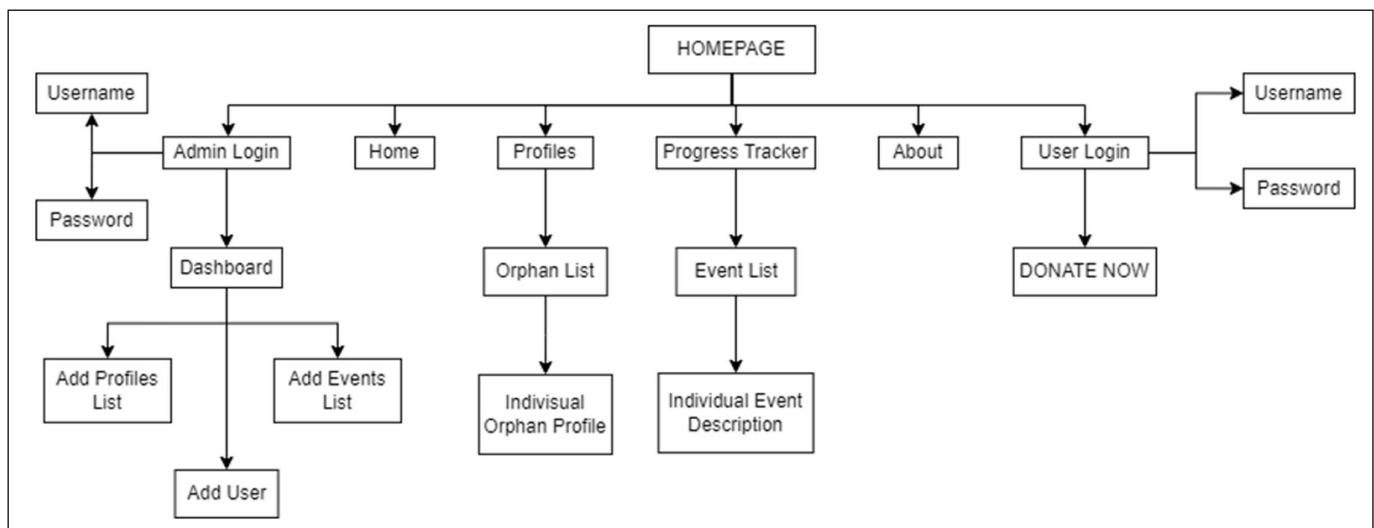
## **Construction**

Writing the code for our Web application and examining the program for any potential flaws by performing test cases. To guarantee Quality Assurance, any flaws and problems found during this stage are corrected.

## **Deployment**

Maintaining blockchain and ensuring that the web application runs smoothly on the servers with no downtime

## **2. Architectural Block Diagram**



### **3. SRS**

# **Software Requirements Specification**

**for**

## **EduCare - An Education Sponsoring Platform**

**Prepared by Avani Dhongde - 112003036**

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**Juhi Shekokar - 112003059**

**for completion of SEMP II**

**TY COMP**

**in**

**Computer Engineering**

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## Revision History

Name	Date	Reason For Changes	Version
EduCare - An Education Sponsoring Platform	02 March 2023	Original Draft	1

## 1. Introduction

### 1.1 Purpose

The purpose of this document is to present a detailed description of the web application EduCare. It will explain the purpose and features of the application, the interfaces of the application, what the application will do, and the constraints under which it must operate. This document is intended for users of the application and also potential developers.

## **1.2 Document Conventions**

This document was created based on the IEEE template for System Requirement Specification Documents.

## **1.3 Intended Audience and Reading Suggestions**

- Typical Users are driven by social welfare causes and wish to bring about a change in the lives of those children who are less fortunate.
- Advanced/Professional Users, such as engineers or researchers, who want to use EduCare to tie up with their orphanage.
- Programmers who are interested in working on the project by further developing it or fixing existing bugs.

## **1.4 Product Scope**

EduCare is a secure, decentralized platform that enables people to collectively raise funds to academically sponsor orphan children's education. Our platform partners with orphanages and allows donors to raise funds for orphan children. It also helps the donor to keep track of the child's progress regularly.

## **1.5 References**

EduCare's website:<http://localhost/charity/>

EduCare's GitHub page:

# **2. Overall Description**

## **2.1 Product Perspective**

EduCare is a virtual platform for collectively raising funds for orphan children's education. The Admin creates profiles for orphans, including pictures and brief descriptions of each child. It also registers users who want to donate funds. The donors can also keep track of students' progress through this platform. The platform brings trust, accountability, and transparency to operations. It was developed to run on Windows, Mac OS, and Linux.

## **2.2 Product Functions**

The Application will be having two interfaces

## 1. For Users:

Users who are willing to donate have to register on the platform. After successfully sign-up and login, the user can access his dashboard. He/she can view all the profiles with detailed information like the student information, background, education details, other interests, etc. Users can select the profile to who he/she wishes to donate funds to and enter the amount. On successful transactions, the fund database is updated and the money raised is updated. All transaction details are stored in databases securely. Users can also visit the profile and can also track students' progress and how the donated amount is used.

## 2. For Admin:

The Admin creates profiles for orphans, including pictures and brief descriptions of each child. It also registers users who want to donate funds on the platform with verification.

Admin can track the amount donated and can see all the amounts that will be donated across the network.

Admin can Update the progress tracker on the platform

## 2.3 User Classes and Characteristics

- Typical Users are driven by social welfare causes and wish to bring about a change in the lives of those children who are less fortunate.
- Advanced/Professional Users, such as engineers or researchers, who want to use EduCare to tie up with their orphanage.
- Programmers who are interested in working on the project by further developing it or fixing existing bugs.

## 2.4 Operating Environment

- Windows 7
- Windows 8
- Windows 10
- Mac OS X
- Linux

## 2.5 Design and Implementation Constraints

Educare is developed in JavaScript. Other technologies used are MySQL, PHP, and Xampp Apache for developing databases that securely store all transaction details. JavaScript, Bootstrap, HTML,CSS are used to create the frontend.

## 2.6 User Documentation

This page consists of a guide for donors. It consists of terms and conditions and a few instructions which would help them use the application efficiently. Necessary contacts of the admins and orphanages will be provided here so that the donor could reach out to them in case of any doubts.

## **2.7 Assumptions and Dependencies**

Educare is developed in JavaScript. Other technologies used are PHP and Xampp Apache. The user profile should be get added to a database for donations. The user profile is verified by the admin before getting added. The XAMPP server environment should be installed and configured on the development machine or server. The development machine or server has sufficient resources to run the Xampp server environment.

# **3. External Interface Requirements**

## **3.1 User Interfaces**

The login page will help the donors to access their dashboards. It will be password protected so that no one else can access it. On the dashboard would be various tabs including Profiles, progress tracker, Donation, and About the application

The homepage will consist of the profiles of children which the donors could scroll through. They could click on a particular profile to get more information about the child and the organization they belong to. Once successfully login, the user can select the profile and donate the amount. The About tab will help he/she go through the instructions and terms and conditions and contact in case of any doubt.

## **3.2 Hardware Interfaces**

Minimum ram: 4GB or above

Hard disk:80 GB

Processor:64-bit, four-core, 2.5 GHz minimum per core

## **3.3 Software Interfaces**

1. PHP

2. HTML CSS

3. JavaScript

4. Bootstrap
5. MySQL
6. XAMPP Apache

## 3.4 Communications Interfaces

This php and xampp-based application can communicate over the HTTP protocol, which is the most commonly used protocol for web-based applications. HTTP allows communication between the web server and the client browser, enabling the transfer of data between them. MySQLi is an extension for PHP that allows communication with MySQL databases. It enables the execution of SQL queries, data retrieval, and data modification. It also provides an interface for handling errors and transaction management.

# 4. System Features

## 4.1 Orphan Profile

### 4.1.1 Description and Priority

displaying all the relevant information about the orphan, including their photo, biography, education background and which organization they belong to. Their progress details and what they desire to get the education in and what all they are good at and how the donation would help them.

### 4.1.2 Stimulus/Response Sequences

When the user opens the home page, they can scroll through the page to view all the profiles of children. They can see the photo of the child and read the description.

### 4.1.3 Functional Requirements

#### 1) orphan management system :

a database where the admin can store the information of all the orphans and their details. the admin could go through the data and get the particular information they need. they can search for a particular profile as well.

#### 2) admin page for updation of data:

The admin can update the description or add a new profile easily in the database through the admin page which consists of data in tabular form and different buttons to add or edit the data. Allow orphan profiles to be updated regularly to reflect current progress and status

### 3) Ensure the orphan's privacy and security

This is ensured by giving login ids and passwords for donors to access the profiles. This makes sure that only registered people can go through the profiles and donate. direct donor to admin transactions ensure the account safety of the child or the organization.

## 4.2 progress tracking

### 4.2.1 Description and Priority

allows the donor to receive regular updates and news about different events and competitions the child is participating in and to check in their progress. this is very important to assure the donor that their donation is reaching the child properly and helping them grow.

### 4.2.2 Stimulus/Response Sequences

When the user clicks on the track progress button they can go through various events, and know the details of when and where the event is going to take place. they can personally go and support the child they are donating to. it will help them connect with the kid better.

### 4.2.3 Functional Requirements

#### 1) events tracking system

The admin dashboard allows them to regularly update the events or add new events and edit the information like date or place or description.

#### 2) user registrations

On clicking on the register button the user can book a seat and go watch the event and support the orphan personally.

## 4.3 online donation

### 4.3.1 Description and Priority

This feature allows for the donor to fill a form for making a donation. The donor has to fill in the name of the orphan and the amount that they are willing to donate. The amount will then get transferred to the admin's account safely. It is a high priority feature since it makes the donation process quicker and the donor does not have to go through different modes of payment.

#### 4.3.2 Stimulus/Response Sequences

The user clicks on the login button that is there on the top right corner of the home page which allows them to log in. Once logged in successfully the user will first go through the profiles and decide on which one they want to donate to. After that they can press the donate now button and a form will appear in front of them. Once the details are filled and the transaction is completed the user gets a message saying the donation is successful.

#### 4.3.3 Functional Requirements

##### 1) Donation records

donor id and the time the donation is made is recorded when a transaction is completed. If the id is invalid the system will not record the amount and the transaction will fail and the user will receive a message saying so. The admin can go through all the donations for a particular profile or by a particular user. The admin can put a limit on donations, so when the desired amount is received then no further donations are accepted.

##### 2) Donation history

The user can go through all the donations they have made and keep a track of their funds. They will not be able to cancel their donation but can check whether the transaction is completed and the money has reached the child safely.

## 5. Other Nonfunctional Requirements

### 5.1 Performance Requirements

Page load speed: The website should load quickly to ensure a smooth user experience. A fast page load speed can help to reduce bounce rates and improve user engagement.

**Security:** The website should be secure to protect user information and transactions. Should have secured payment gateways and should generate an error when invalid ids are logged in.

**Frequent updates:** admin pages and databases should help to quickly add new information or edit the existing information.

**User experience:** The website should be easy to navigate and use, with intuitive design and clear calls to action.

**Contact details:** it should be easy for the user to get in touch with the admin or the ngo and get whatever information is needed. This ensures transparency. A different contact page including email ids and phone numbers or forms should be added.

## **5.2 Safety Requirements**

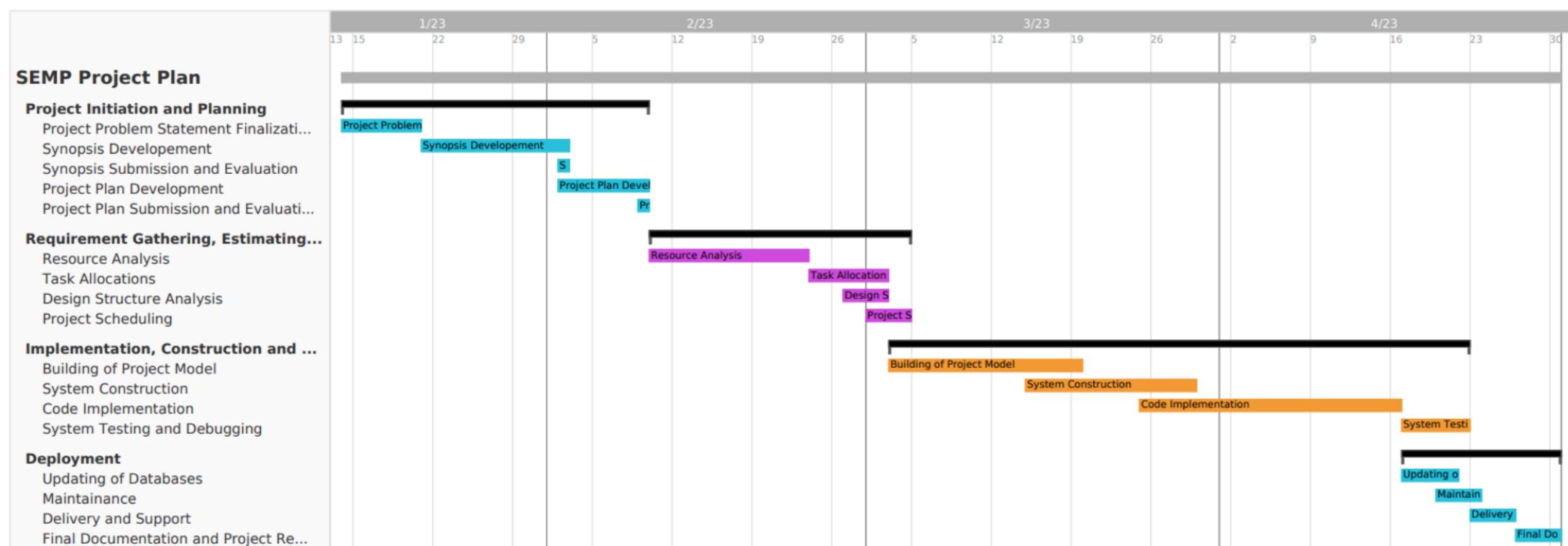
**Prevention of fraudulent activities:** The website should have safeguards in place to prevent fraudulent activities, such as fake donations or misuse of donated funds. The website should also have a system to detect and investigate suspicious activities. This could be done by keeping the track of invalid login ids

**Secure payment processing:** The website should use a secure payment gateway to protect users' financial information and prevent fraud. This could be done using blockchain.

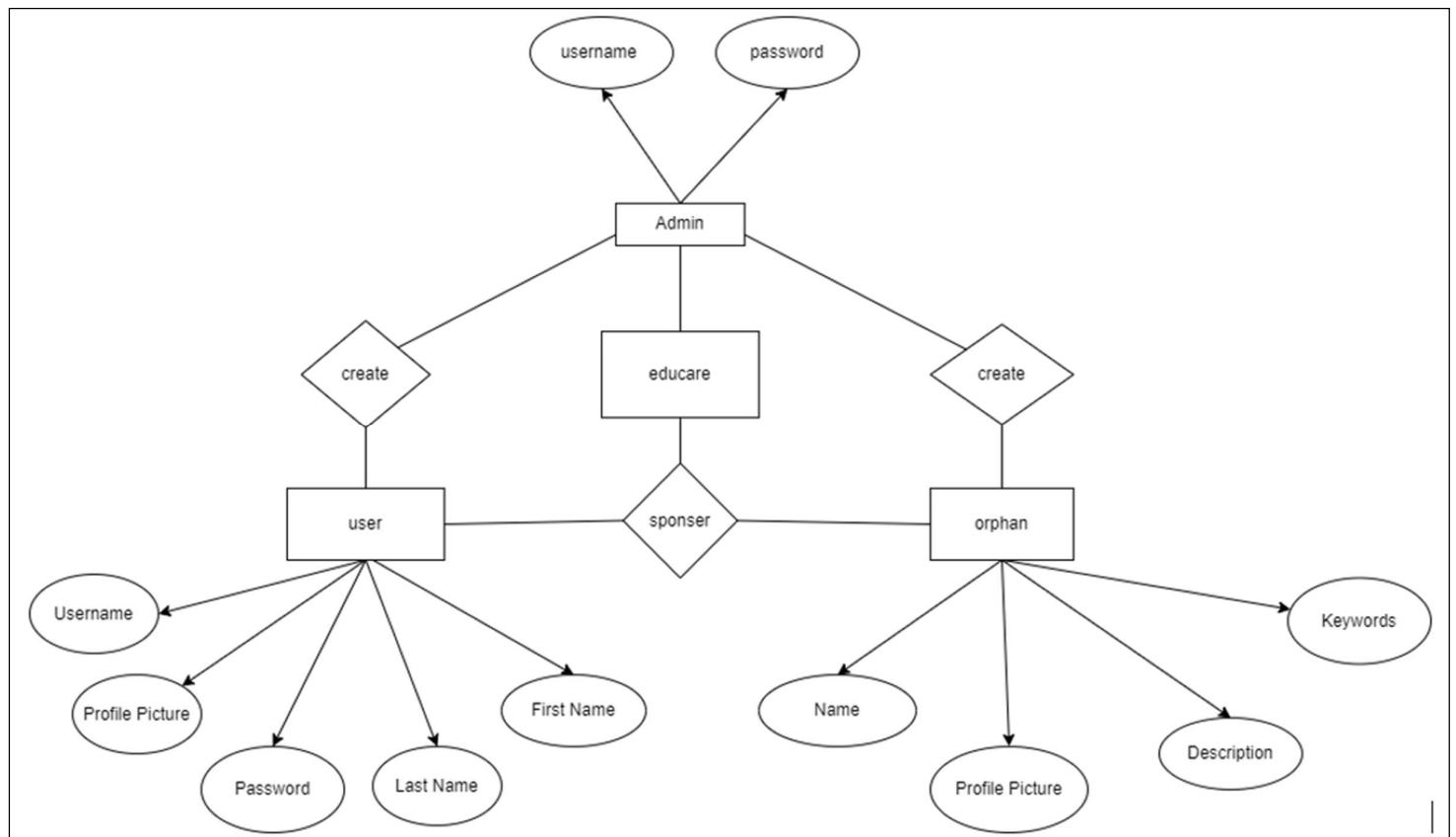
**Clear communication of terms and conditions:** The website should clearly communicate its terms and conditions to users, including the donation process, refund policy, and any fees or charges that may apply.

**Compliance with legal and regulatory requirements:** The website should comply with all applicable laws and regulations related to fundraising, charitable organizations, and financial transactions. The website should also obtain any necessary licenses or permits to operate legally.

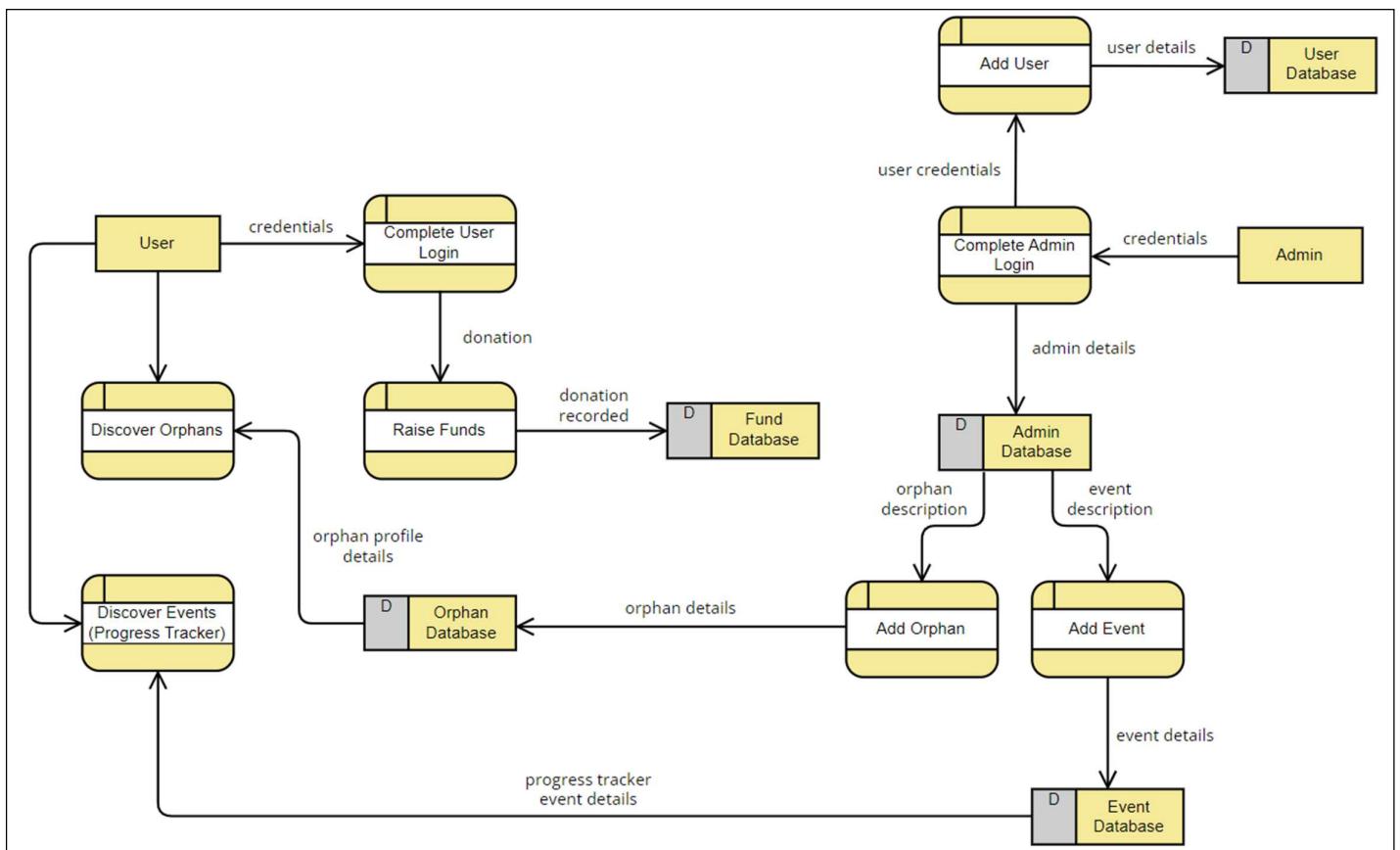
# **4. Project Plan**



# **5. ER Diagram**

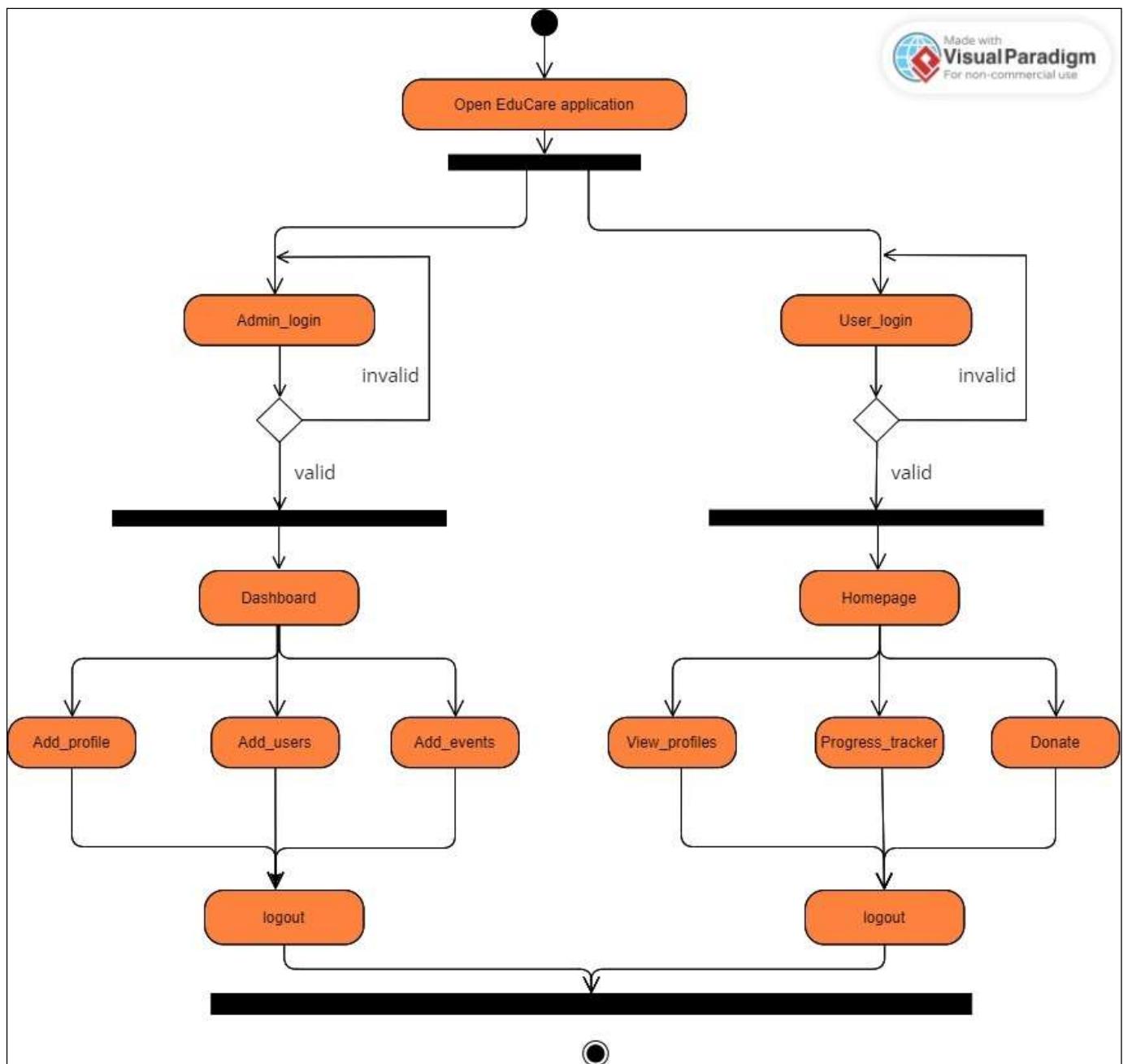


# **6. DFD**

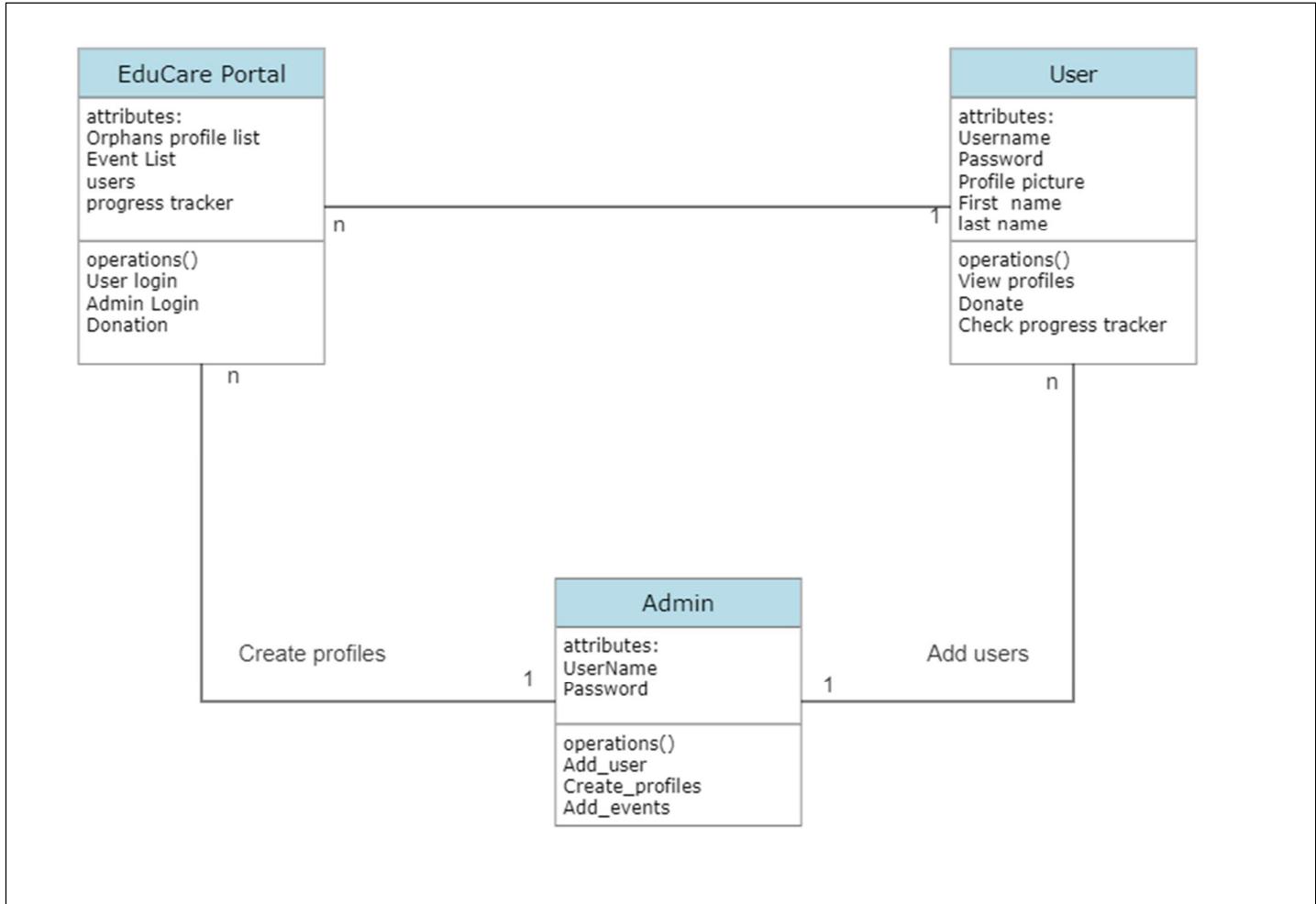


# **7. UML Diagrams**

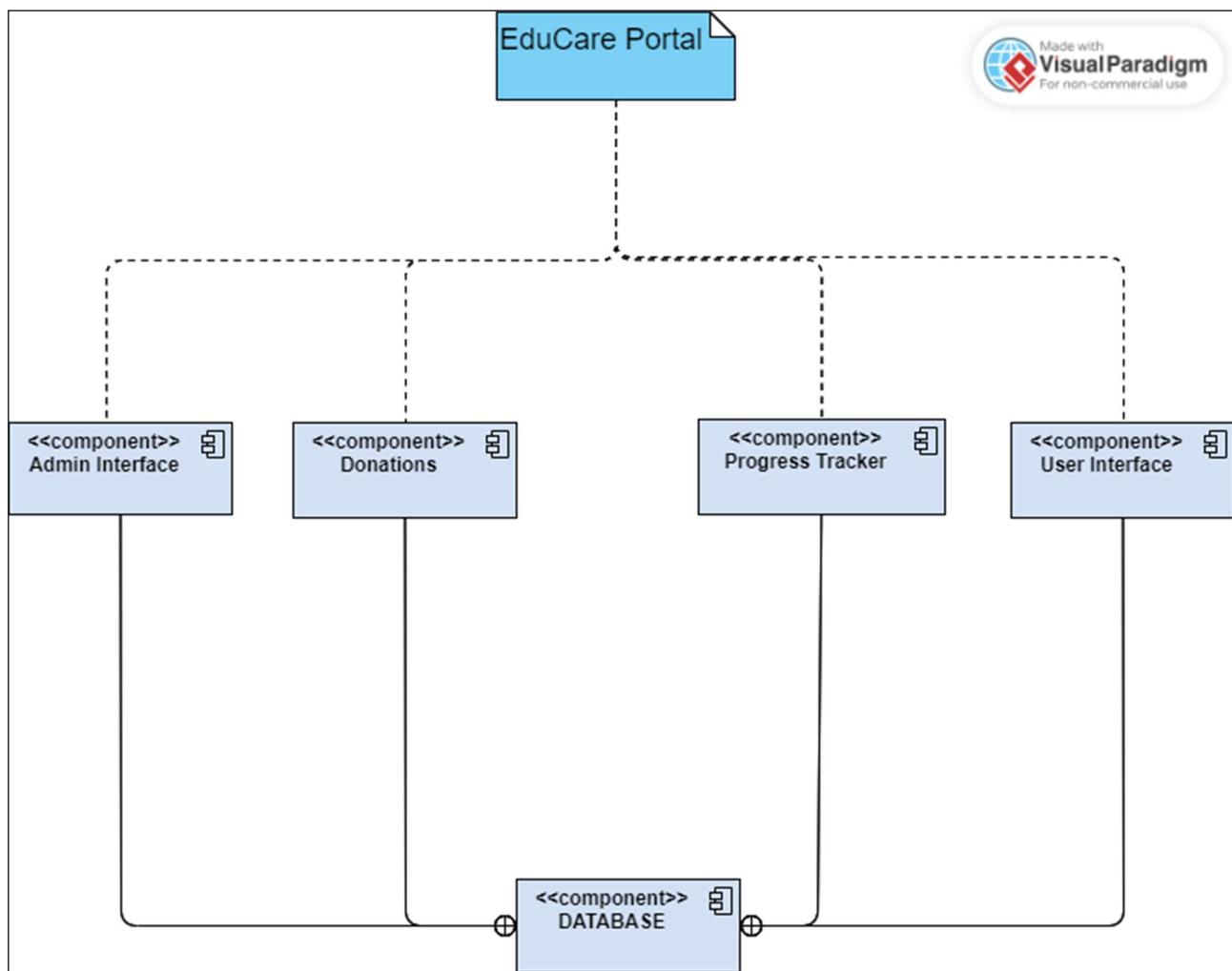
# Activity Diagram



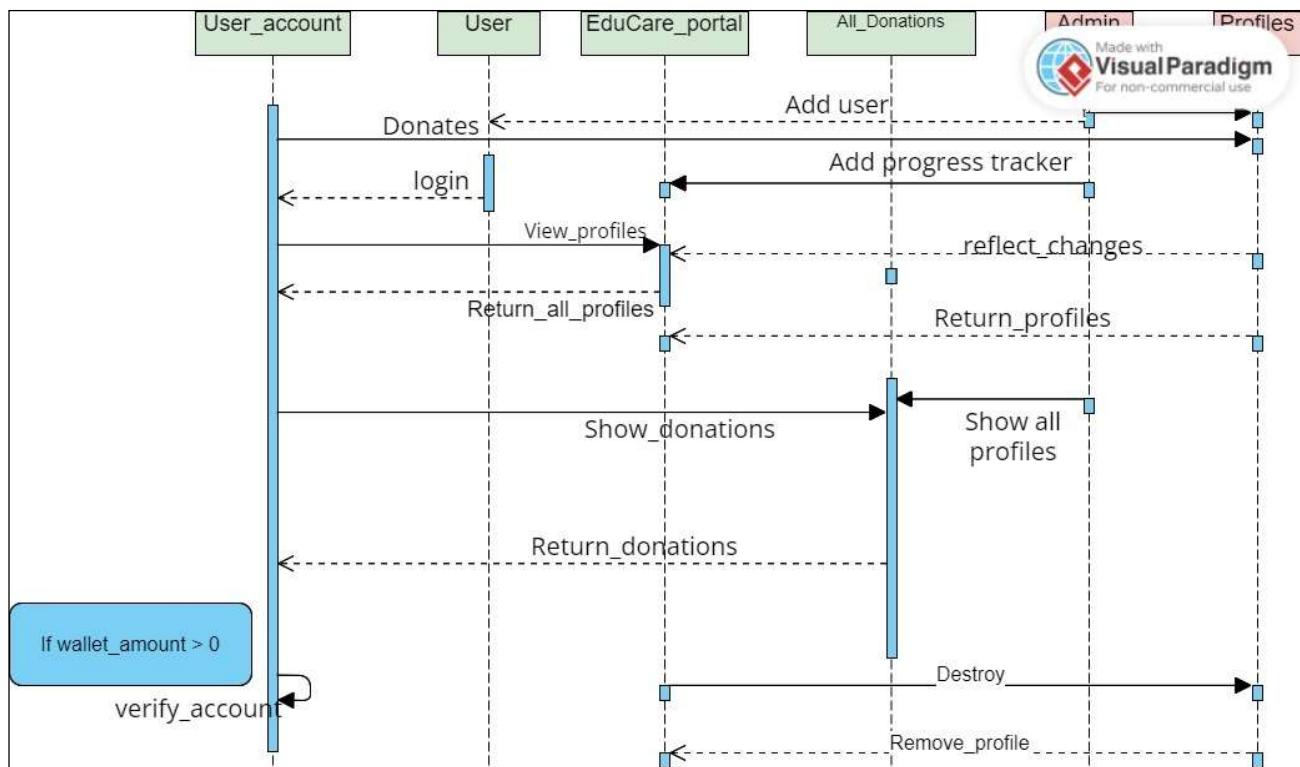
# Class Diagram



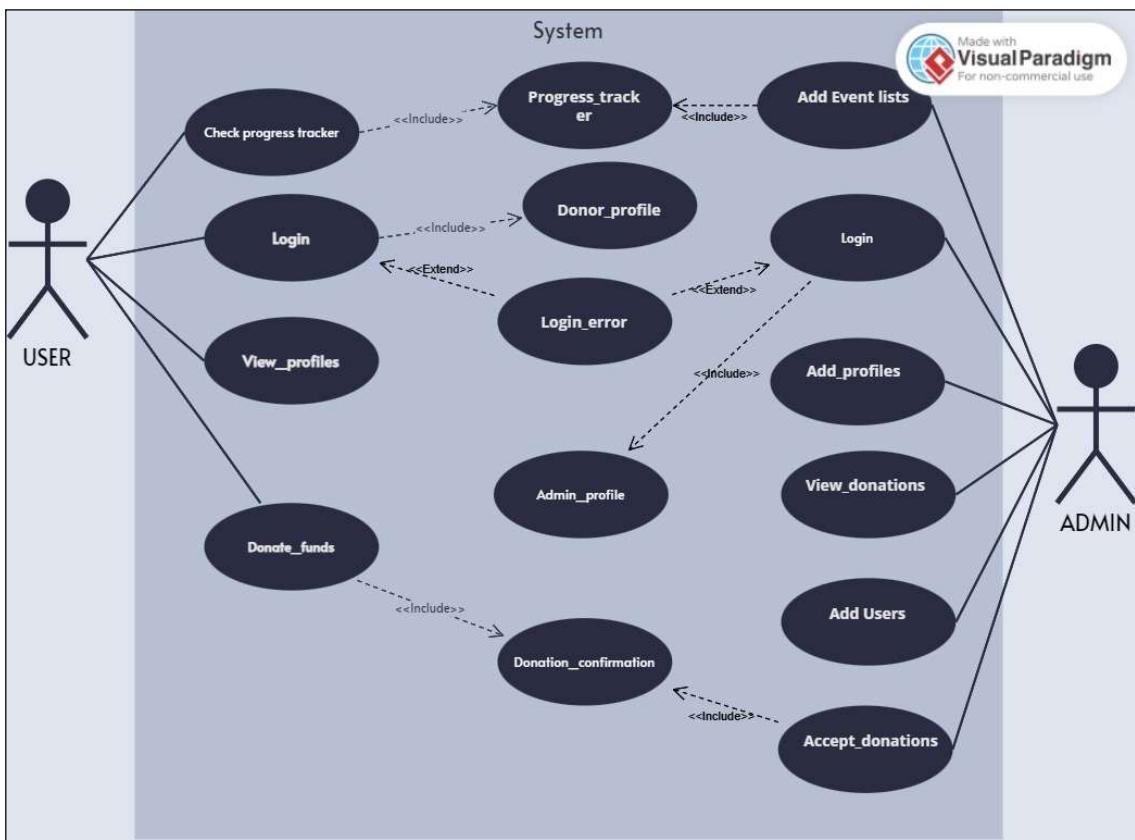
# Component Diagram



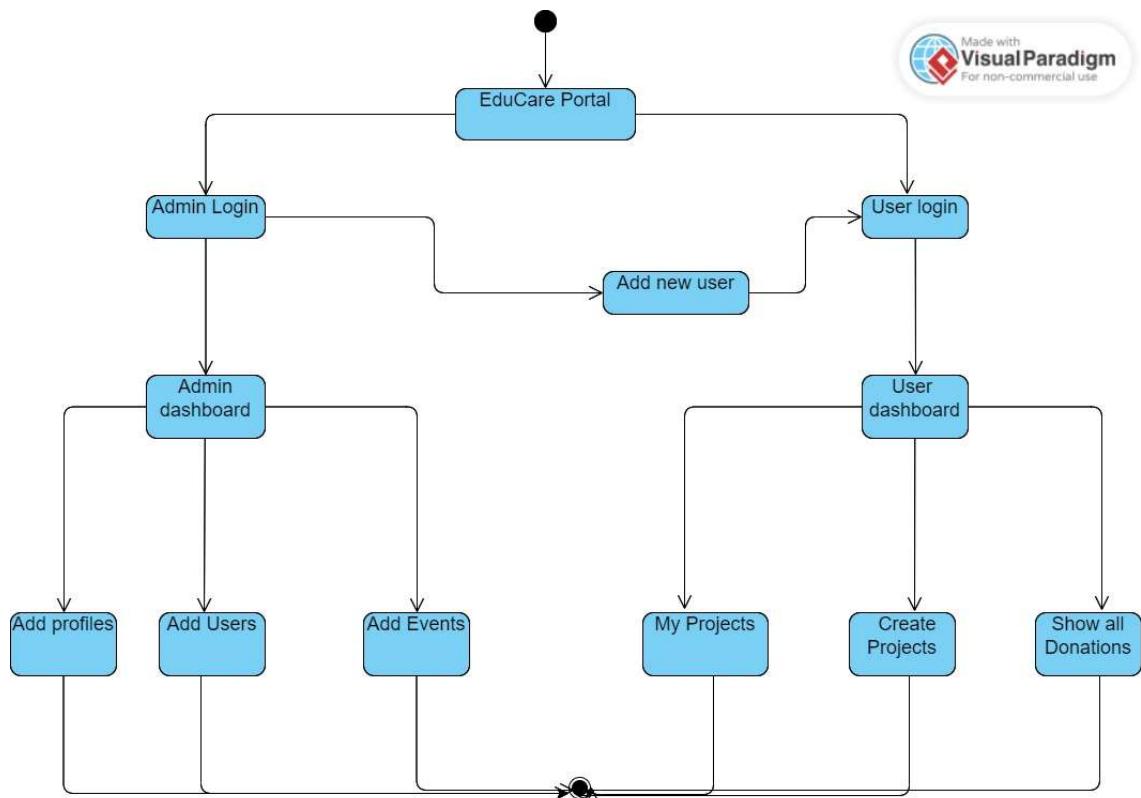
# Sequence Diagram



# Usecase Diagram



# State Diagram



## **8. Project Screenshot**



Children in orphanages do not always have the resources to get a good education. EduCare is a secure, decentralized platform that enables people to collectively raise funds to academically sponsor these orphan children. Our platform partners with orphanages and allows donors to fund money for school fees, to buy things like notebooks, stationary, uniforms, etc. It also provides donors to keep track of the children's progress.

The screenshot shows three windows side-by-side. The top window is the browser-based "EduCare - Education Sponsoring Platform" homepage. The middle window is a "Login" screen with fields for "Username" and "Password", and buttons for "Go Back to Website" and "Sign In". The bottom window is the "EduCare - Admin" dashboard, featuring a sidebar with "Dashboard", "Profiles List", "Progress Tracker Event List", "Maintenance", "Topic List", "User List", and "Settings". The main area displays "Total Donations Today" (2,500), "Total Profiles" (6), and "Progress Tracker Events" (5). The status bar at the bottom of each window shows the date (13-04-2023) and time (e.g., 02:20 PM, 02:21 PM, 02:22 PM).

EduCare - Admin

**List of Orphans**

+ Create New

Show 10 entries

Search:

#	Date Created	Title	Description	Author	Status	Action
1	2023-04-12 18:29	Bharti Puri		Administrator Admin	Published	Action ▾
2	2023-04-12 18:23	Jyoti Ghosh		Administrator Admin	Published	Action ▾
3	2023-04-11 22:29	Ram Sharan		Administrator Admin	Published	Action ▾
4	2023-04-11 16:56	Ashish Rath		Administrator Admin	Published	Action ▾
5	2023-04-11 09:16	Sakshi Kalambale		Administrator Admin	Published	Action ▾
6	2021-08-17 12:56	Hanif Sheikh		Administrator Admin	Published	Action ▾

Showing 1 to 6 of 6 entries

Previous 1 Next

SEMP II Mini Project 2023.

EduCare - Admin

**List of Events**

+ Create New

Show 10 entries

Search:

#	Schedule	Title	Description	Action
1	Dec 25,2023	Christmas Party	Christmas party hosted by EduCare platform. All registered orphans and donors are invited to attend. There will be carols, fun games, dinner an...	Action ▾
2	Aug 23,2023	Singing Competition	Sakshi Kumbale is taking part in Girls Dance Competition organized by COEP Technological University. Time: 6 PM onwards Venue: Main...	Action ▾
3	Jul 25,2023	Best Out of Waste	CHILDO Orphanage is hosting a best out of waste competition, donors are free to join as well. Time: 7:30 PM onwards Venue: CHILDO Orphanage...	Action ▾
4	May 23,2023	Fancy Dress Competition	Fancy Dress Competition organized by Vidya Deep Orphanage. Ram Sharan will be participating and wishes to dress up as a banana. Time: 5PM...	Action ▾
5	May 23,2023	Debate Competition	Bharti Puri is participating in a debate competition organized by her college Modern College. She is one of the 7 members representing her division...	Action ▾

Showing 1 to 5 of 5 entries

Previous 1 Next

SEMP II Mini Project 2023.

EduCare - Admin

**List of Users**

+ Create New

Show 10 entries

Search:

#	Avatar	Name	Username	Action
1		Avani Dhongde	ava	Action ▾
2		Juhil Shekhar	juhilshake	Action ▾
3		Shruti Jadhav	shruti123	Action ▾
4		User12	useruser	Action ▾

Showing 1 to 4 of 4 entries

Previous 1 Next

SEMP II Mini Project 2023.

EduCare - Admin

Administrator Admin

Content

Bharti Puri is a bold 17 year old girl. She was married off by her family when she was just 11 years old. After sustaining constant abuse and domestic violence from her husband, she ran away from her house and found shelter in Manjara Orphanage. Her parents forced her to drop out of school in 3rd grade but couldn't stop her hunger to learn. The organization has been able to provide her with basic secondary education.

She aspires to join the civil services to prevent what happened to her to other girls. She wants to go to Delhi and prepare for the UPSC as it is the best city for preparation. The organization needs support to fund her accommodation and tuition fees there. She also loves painting and has been a great debater ever since she has been in Manjara.

**Keywords** (separate the keywords using comma ",")  
UPSC, Debate, Child Marriage

EduCare - Admin

Administrator Admin

Update Event

Date Schedule  
23-05-2023

Title  
Fancy Dress Competition

Description  
Fancy Dress Competition organized by Vidya Deep Orphanage. Ram Sharan will be participating and wishes to dress up as a banana.

Time: 5PM onwards

Thumbnail  
Choose file



Save Cancel

EduCare - Admin

Administrator Admin

First Name  
Avani

Last Name  
Dhongde

Username  
ava

Password  
Leave this blank if you don't want to change the password.

Avatar  
Choose file



Save Cancel

**EduCare - Admin**

**System Name**  
EduCare

**System Short Name**  
EduCare

**About Us**

**About Us**

We are a group of Third Year Computer Engineering students from COEP Technological University who believe in spreading love and positivity in the society. We came up with the idea to provide Orphans and Orphanages a platform by which they can easily get donations which they can use to sponsor the education of kids. Our platform displays the profiles of various children along with what their interests and passions are. Donors can donate to their orphan(s) of choice and help them achieve their dreams.

**Welcome Content**

**Children in orphanages do not always have the resources to get a good education. EduCare is a secure, decentralized platform that enables people to collectively raise funds to academically sponsor these orphan children. Our platform partners with orphanages and allows donors to fund money for school**

**EduCare** Home Profiles Progress Tracker About User Login Admin Login Donate Now

**Profiles**

**Bharti Puri**

Bharti Puri is a bold 17 year old girl. She was married off by her family when she was just 11 years old. After sustaining constant abuse and domestic violence from her husband, she ran away from her house and found shelter in Manjara Orphanage. Her parents forced her to drop out of school in 3rd grade but couldn't stop her hunger to learn. The organization has been able to provide her with basic secondary...

Published: Apr 12, 2023 06:29 PM By: Administrator Admin

**Jyoti Ghosh**

Jyoti Ghosh is a 11 year old girl who was found by a passerby, Lakshmi when she was around 4 months. She took care of her a few years, but now Lakshmi is not able to take care of her anymore and provide an education for Jyoti. They barely manage to get one meal a day. Jyoti loves animals and wants to be a vet when she grows up.

Published: Apr 12, 2023 06:29 PM By: Administrator Admin

**Ram Sharan**

Ram Sharan is a 15 year old boy who ran away from home due to abusive parents. He was found selling pens on the roadside where a young couple helped him get to the Vidyadep Orphanage. He is in the third grade and dreams of becoming an skater. He's a natural skater and is in love with the skateboard in the orphanage since he has been there. He also loves painting and has received several prizes in his school.

Published: Apr 11, 2023 10:29 PM

37°C Mostly sunny 02:27 PM 13-04-2023



### Progress Tracker

#### Fancy Dress Competition

Fancy Dress Competition organized by Vidya Deep Orphanage. Ram Sharan will be participating and wishes to dress up as a banana.

[Read More](#)

#### Debate Competition

Bharti Puri is participating in a debate competition organized by her college Modern College. She is organizing the debate.

[Read More](#)

#### Best Out of Waste

CHILDO Orphanage is hosting a best out of waste competition, donors are free to join as well. Time: 7:30 PM.

[Read More](#)

#### Singing Competition

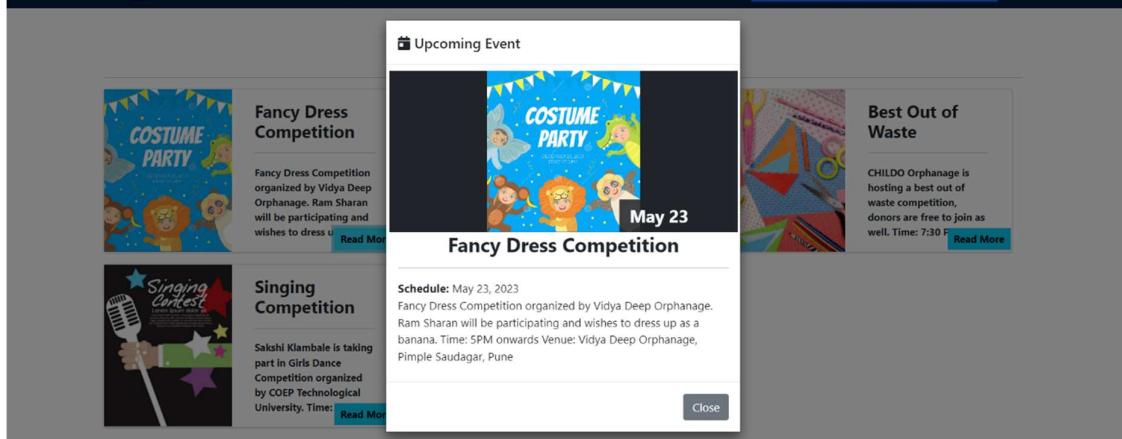
Sakshi Klamble is taking part in Girls Dance Competition organized by COEP Technological University. Time: 5PM onwards.

[Read More](#)

#### Christmas Party

Christmas party hosted by EduCare platform. All registered orphans and donors are invited to attend. There will be a gift exchange.

[Read More](#)



## About Us

We are a group of Third Year Computer Engineering students from COEP Technological University who believe in spreading love and positivity in the society. We came up with the idea to provide Orphans and Orphanages a platform by which they can easily get donations which they can use to sponsor the education of kids. Our platform displays the profiles of various children along with what their interests and passions are. Donors can donate to their orphan(s) of choice and help them achieve their dreams.

All funds raised go towards educational purposes. It may be in the form of school fees, or money to buy stationary, notebooks, school uniforms etc. Donors can keep track of the child's progress by going in the Progress Tracker tab. All events and Competitions the child takes part in are displayed there. This maintains a closeness between the donor and the child.

Project By: Avani Dhongde 112003036 Shruti JadHAV 112003050 Juhi Shekohar 112003059  
Div 1: Batch T4



The screenshot shows the EduCare website's login interface. The main background features a banner with hands reaching out towards a heart with a cross, symbolizing care and sponsorship. The banner text reads: "EduCare - Education Sponsoring Platform". Below the banner, there is a promotional message about orphanages and the platform's mission. The login form itself has fields for "Username" and "Password", and a "Login" button.

**EduCare** Home Profiles Progress Tracker About User Login Admin Login Donate Now

**EduCare - Education Sponsoring Platform**

Children in orphanages do not have access to basic necessities. EduCare is a secure, decentralized platform that enables individuals to sponsor these children. Our platform partners with local organizations to provide things like notebooks, stationary, and medical supplies. Keep track of the children's progress.

Login

Username

Password

Login

**EduCare** Home Profiles Progress Tracker About User Login Admin Login Donate Now

**EduCare - Education Sponsoring Platform**

Children in orphanages do not have access to basic necessities. EduCare is a secure, decentralized platform that enables individuals to sponsor these children. Our platform partners with local organizations to provide things like notebooks, stationary, and medical supplies. Keep track of the children's progress.

Donation

Your donation will be much appreciated and can help others. Thank you!

Ashish Rathi  
Select Orphan

1300<sup>₹</sup>  
Enter Donation Amount Here

Pay Cancel

SEMP II Mini Project EduCare 37°C Mostly sunny 02:28 PM 13-04-2023

Type here to search

37°C Mostly sunny 02:29 PM 13-04-2023