Chapter 1

INTRODUCTION

1.1 General Background

1.2 Objective

Chapter 2

Literature Survey

Chapter 3

SYSTEM ANALYSIS

3.1 Existing system

The current scholarship application process is burdened with some paper works and manual procedures, contributing to inefficiencies and delays. Students are often required to fill out extensive paper forms, leading to potential errors and difficulties in tracking the application status. Additionally, the submission of supporting documents, such as academic transcripts and financial information, involves physical paperwork, adding to the complexity of the process. organization or persons, in turn, face challenges in managing and reviewing the vast amount of paper documents, leading to delays in approval or rejection decisions. The reliance on manual paperwork also introduces a lack of transparency, making it challenging for all stakeholders to track and verify the various stages of the application process. one of the prominent challenges is the unavailability of sponsors to adequately support and promote students in their pursuit of education. Despite the presence of numerous deserving students, the lack of awareness and engagement from potential sponsors hinders the financial support essential for academic endeavors. The current system struggles to effectively connect students with sponsors, making it difficult for students to access the financial resources required for their education. This limitation results in missed opportunities for talented individuals to receive the necessary support and excel academically. The proposed scholar Chain seeks to address this issue by introducing functionalities that facilitate seamless communication between students and potential sponsors,

thereby enhancing opportunities for financial assistance and fostering a more supportive environment for educational aspirations.

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3.2 Proposed system

Imagine a new system called Scholar Chain that makes it super easy for students to apply for scholarships. Right now, many students miss out on these opportunities because the process is a bit tricky.The proposed Scholar Chain system revolutionizes the scholarship management landscape by introducing cutting-edge features that address the shortcomings of the existing system. With a focus on transparency, accessibility, and inclusivity, Scholar Chain aims to bridge the gap between deserving students and educational opportunities. The system's streamlined application process ensures that students, administrators, and organizations can navigate the platform effortlessly. Notably, Scholar Chain goes beyond conventional scholarship models by integrating blockchain technology and smart contracts. This innovation brings heightened security, transparency, and efficiency to the entire scholarship life cycle. The introduction of user roles Administrators, Organizations/Persons,Students,public and sponsors ensures a tailored and efficient workflow. Additionally, Scholar Chain empowers sponsors by allowing them to selectively choose organizations or individuals for sponsorship. Sponsors can even target their support towards students from backward families, fostering a more inclusive and impactful form of philanthropy. With features like transparent contribution tracking and efficient communication channels, Scholar Chain aims to create a dynamic and collaborative ecosystem, revolutionizing the way scholarships are managed and distributed. The proposed system is poised to enhance educational accessibility, empower sponsors, and create a positive and equitable impact on the academic journeys of deserving students.Administrators are like the guardians of the scholarship world, making sure everything runs smoothly. Organizations/Persons get to be the heroes, deciding who gets the support they need. Students, the true stars, can easily navigate the system, submit applications, and track their status

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hassle-free. And here's the cool part – sponsors can step in and be the real-life heroes, choosing who they want to support, whether it's specific groups or students facing financial challenges.

Key Features of the Proposed Scholar Chain System

- **User-Friendly Registration:** Implement an intuitive registration process for students, organizations, and administrators, ensuring accessibility for all users.

- **Digital Portfolio Management:** Enable students to easily manage their profiles and create a comprehensive digital portfolio, including academic, income, and category-related information.

- **Streamlined Application Submission:** Facilitate a simplified and secure process for students to submit scholarship applications digitally, reducing the burden of paperwork.

- **Transparent Application Review:** Provide organizations with an efficient platform to review and make decisions on student applications, ensuring transparency in the selection process.

- **Centralized Administrator Control:** Empower administrators with secure login capabilities, allowing them to oversee the entire scholarship program, manage organization registrations, and maintain control over the system's integrity.

- **Efficient Communication Channel:** Introduce a centralized and secure communication channel for administrators, organizations, and students, fostering streamlined information flow and reducing miscommunication.

- **Sponsorship Flexibility:** Allow sponsors to choose organizations or individuals for sponsorship, promoting flexibility and increasing opportunities for financial assistance.

- **Public Visibility of Scholarships:** Create a public interface for individuals to view available scholarships, promoting awareness and encouraging more students to apply.

- **Enquiry Forwarding Mechanism:** Implement a feature for the public to forward inquiries, ensuring a clear communication channel for addressing questions and concerns related to scholarships.

- **Backward Family Support:** Introduce a mechanism for sponsors to specifically support students from economically backward families, enhancing inclusivity in the scholarship program.

Main activities of the system:

Organization/Person Registration and Authentication:

Organization/person registration for a scholarship program involves creating an account, managing profiles, and undergoing a verification process. Users submit registration forms with detailed information about their background and objectives, which are then reviewed by program administrators. Upon approval, registered users gain access to account features and can interact with the scholar chain. Regular updates may be required to maintain accurate information throughout participation.

Uploading scholarships:

In order to upload scholarships, organizations or individuals first log in to their accounts on the scholar chain. Then, they create detailed listings for their scholarships, providing essential information such as eligibility criteria, application requirements, and deadlines. After that, they upload supporting documents like application forms and guidelines. Users review all details carefully before submitting their scholarship listings through the system. Once submitted, they monitor and manage their listings, track application numbers, review applicant profiles, and make award decisions. Throughout the process, communication with applicants is facilitated within the system for seamless interaction and updates on scholarship status.

Approving Applications:

Approving scholarship applications involves thoroughly reviewing each student's submission to ensure they meet the specified criteria. This includes verifying their academic records, financial need, and any additional requirements outlined in the application. Administrators assess the applications objectively, considering factors such as the available budget and the number of scholarships available. Once reviewed, administrators make informed decisions to either approve or reject the applications. Approved applicants are then notified of their successful application, while rejected applicants are provided with reasons for the decision.

Student Portfolio:

Creating a student portfolio involves compiling essential information and documents to showcase their qualifications ,personal details and achievements. Students typically include academic transcripts, certificates, extracurricular activities, and any relevant work experience. They may also provide personal statements or letters of recommendation to highlight their strengths and aspirations. The portfolio serves as a comprehensive representation of the student's academic and personal accomplishments, helping them stand out during scholarship applications. Regular updates to the portfolio ensure it reflects the student's latest achievements and qualifications, enhancing their chances of success.

Submitting Scholarships:

Applying for a scholarship as a student involves several key steps to increase your chances of success. Firstly, you need to research and identify scholarships that align with your academic achievements, interests, and goals from the allocated scholarships based on student portfolio. Then, carefully review the application requirements

and deadlines for each scholarship opportunity. Craft a compelling application that highlights your accomplishments, aspirations, and why you are deserving of the scholarship. Finally, submit your application before the deadline and follow up as needed to ensure it has been received and reviewed. By meticulously preparing and presenting your application, you maximize your chances of securing the scholarship support you need to further your education.

Public Enquiry:

Engaging in public inquiries regarding scholarships involves reaching out to relevant authorities or organizations to gather information, clarify doubts, or seek assistance regarding available scholarship opportunities. This process typically begins with identifying the appropriate channel, email provided by scholarship providers. Once the contact is established, individuals can ask questions, seek clarification on eligibility criteria, application procedures, deadlines, and any other relevant details. Public inquiries serve as a crucial avenue for individuals to obtain accurate information, address concerns, and make informed decisions regarding their pursuit of scholarships.

Sponsor Choosing Scholarships:

When sponsors choose scholarships, their main activities involve navigating through available options to select the scholarships they wish to support financially. This process typically begins with accessing the scholarship management platform and browsing through the list of available scholarships. Sponsors may filter scholarships based on criteria such as academic focus, eligibility requirements, or specific demographics they aim to support. Once they identify suitable scholarships, sponsors review the details provided, including the scholarship description, eligibility criteria, and funding amount. Based on their preferences and available resources, sponsors

then make their selection, indicating their commitment to fund the chosen scholarships.

Sponsor Choosing Students:

When sponsors choose students based on their portfolio, the main activity involves reviewing and assessing the educational and personal achievements showcased by each student. Sponsors typically access the scholar Chain platform and navigate to the section where student portfolios are available for viewing. They carefully examine the information provided by students, including academic records, extracurricular activities, awards, and any other relevant accomplishments. Sponsors may also consider factors such as financial need, career aspirations, and alignment with the sponsor's values or objectives. After evaluating multiple student portfolios, sponsors make their selection based on the criteria that best match their preferences and goals for supporting students' educational endeavors. This activity allows sponsors to make informed decisions and provide financial assistance to students who demonstrate outstanding potential and merit.

3.3 Module Description

3.3.1 Admin

The Admin module of the Scholar chain encompasses a range of functionalities tailored to ensure smooth oversight and effective management of the scholarship program. Administrators possess the authority to verify Registered Organizations/Persons, ensuring that only legitimate entities participate in the program. Similarly, they can verify Registered Students, confirming their eligibility and authenticity. Additionally, Administrators have the responsibility to verify Registered Sponsors, thereby establishing a credible network of financial support for students. Through the module, Administrators can view the scholarships awarded, facilitating transparency and accountability in the distribution of funds. Furthermore, they are equipped to manage public inquiries, addressing concerns or queries from stakeholders. Finally, Administrators can view approved scholarships and logout securely, ensuring the integrity and confidentiality of the system. This comprehensive set of functionalities empowers Administrators to efficiently oversee all aspects of the scholarship program, promoting fairness, transparency, and effectiveness.

3.3.2 Organization / Person

The Organization/Person module within the Scholar chain offers a suite of functionalities tailored to streamline their engagement with the scholarship program. Users can seamlessly log in to their accounts, ensuring secure access to the platform. Once logged in, they have the ability to manage their profiles, allowing for easy updates and maintenance of personal information. Additionally, users can efficiently manage scholarships, including the review and approval of student applications. This involves verifying the authenticity and eligibility of applicants to ensure fair and equitable distribution of scholarships. Moreover, organizations or individuals can review and respond to sponsorship requests, thereby contributing to the financial support of deserving students. Upon completing their tasks, users can securely logout, main-

taining the confidentiality and security of their accounts. This module empowers organizations or individuals to actively participate in the scholarship program, facilitating a transparent and efficient process for both applicants and sponsors.

3.3.3   Student

The Student module within the Scholar chain provides a comprehensive set of features to facilitate their engagement with scholarship opportunities. Students can securely log in to their accounts, ensuring privacy and access to personalized functionalities. Upon logging in, they have the ability to manage their profiles, allowing for easy updates and maintenance of personal information such as contact details and academic records. Additionally, students can add portfolios showcasing their achievements, academic performance, and other relevant information to enhance their scholarship applications. They can then easily apply for scholarships available within the system, streamlining the application process. Furthermore, students can view sponsorship requests from organizations or individuals interested in supporting their education, enabling them to make informed decisions. Throughout the application process, students can track the status of their submissions, providing transparency and clarity. Once their tasks are complete, students can securely logout, ensuring the confidentiality and security of their accounts. This module empowers students to actively pursue scholarship opportunities, simplifying the application process and enhancing their access to educational funding.

3.3.4   Public

The Public module within the Scholarship Management System offers valuable functionalities for individuals seeking information about available scholarships. Users can easily navigate through the system to view a comprehensive list of scholarships offered across various segments, including academic excellence, sports, vocational

courses, and performing arts. This feature allows the public to explore the diverse range of educational opportunities accessible through scholarships. Additionally, the module enables users to make inquiries, providing a platform for them to seek clarification or additional details regarding specific scholarships or the application process. By offering transparent access to scholarship information and facilitating communication with administrators, the Public module serves as a valuable resource for individuals seeking educational support and guidance.

3.3.5 Sponsor

The Sponsor module within the Scholachain provides sponsors with essential functionalities to engage with the scholarship program effectively. Sponsors can securely log in to their accounts and manage their profiles, ensuring accurate representation of their interests and preferences. One of the key features of this module is the ability for sponsors to choose scholarships they wish to support, aligning their contributions with their philanthropic goals. Moreover, sponsors can actively participate in selecting deserving students for their sponsored scholarships, utilizing the system to review student portfolios and make informed decisions. This module empowers sponsors to play a vital role in shaping the educational journeys of students, fostering a sense of fulfillment and impact in their philanthropic endeavors.

3.4 Feasibility Study

During the system analysis, a feasibility study of the proposed system "Scholar-chain" is carried out to see whether it is beneficial to the students who want to apply for scholarships.It is performed to choose the system that meets the performance requirements at the least cost.Primarily, whether a project that was initiated but one has to be considered for the further development or not will be decided through preliminary investigation.As a part of this investigation,feasibility analysis of "Scholarchain" was conducted based on the outcome of this feasibility analysis. Every feasibility study is an analysis about whether the project is double or not.This report tried to maintain maximum amount of objectivity while preparing these feasibility report for ensuring optimum result.

3.4.1 Operational Feasibility

Operational feasibility examines how a project plan satisfies the requirements identified in requirements analysis phase of system development. It refers to the feasibility of the product to be operational. It mainly focuses on how the system satisfies the user needs. It helps in taking advantage of the opportunities and fulfills the requirements as identified during the development of the project. The new system or project can be used in day to day life which becomes more user friendly for the customer. This system is operationally feasible as it is very easy to operate. It helps the organization /Person to manage the Scholarships . Also, the Students can easily view and apply for their adequate scholarships.

3.4.2 Technical Feasibility

Technical feasibility study deals with the hardware and software and technology which are required to accomplish the user requirements in the system with in the allocated time and budget.The proposed system requires HTML, CSS, JavaScript and Pycharm, Android platform open source. Due to open source of languages it may not become complex to maintain and develop the system. The system can also be easily upgraded to the higher level with less effort and maintenance. This application can be easily used with their laptops or phones anywhere and also this application is very much user friendly. Hence the proposed work is technically feasible.

3.4.3 Economic Feasibility

Economic feasibility determines whether the proposed system is capable of generating profit for an organization. It involves costs incurred on the development team, estimated cost of hardware, feasibility study, and so on. This application was developed with the available resources. Since cost of input for the system is almost zero. The output of the website is always a profit for the user, and they see this as a service. This website doesn't cost any money from the users who are accessing it. Since the application can be accessed from any device with an internet connection, there is no need for specific hardware. Hence, it is economically feasible.

3.5   System Environment

3.5.1   Developer Requirement

0.5.1.1 Hardware Requirement

– Processor : Intel Core i5 or above

– RAM : 8 GB or above

– Storage : 50GB Hard disk

0.5.1.2 Software Requirement

– Operating system : Windows 8 or above

– Front end : HTML, CSS, JavaScript,Bootstrap

– Back end : MYSQL Server

– Language : Python,Dart

– IDE : VS code,Android studio/JetBrain Pycharm

– Framework : Django,Flutter

3.5.2   User Requirement

– Any Smartphone/Computer/ Laptop

– Stable Internet Access

3.6   Actors and their Roles

3.6.1   Admin

The Admin is responsible for the overall management of this system.

- – Login
- – Verify Registered Organization/person
- – Verify Registered Student
- – Verify Registered Sponsor
- – View Geted Scholarship
- – Manage Public Enquiry
- – View Approved Scholarship
- – Logout

3.6.2   Organization/Person

Organization/Person plays vital role in this system by providing scholarships

- – Login
- – Manage Profile
- – Manage Scholarships
- – Verifying Applications
- – Verifying Sponsors request
- – Logout

3.6.3 Student

Student use this user friendly platforms for apply scholarships

– Login

– Manage Profile

– Add Portfolio

– Apply Scholarships

– View Sponsors request

– View status

– Logout

3.6.4 Public

Public can view the scholarships and they can seek information through enquiries

– View Scholarships

– Enquiry

3.6.5 Sponsors

Sponsors gain the flexibility to choose beneficiaries or support underprivileged students.

– Login

– Manage Profile

– Choosing Scholarships

– Choosing Students Check Student Portfolio

– Logout

Chapter 4

METHODOLOGY

4.1 Introduction

This project follows Agile methodology. Agile software development comprises various approaches to software development under which requirements and solutions evolve through the collaborative effort of self organizing and cross-sectional teams and their customers/end users. It advocates adaptive planning, evolutionary development, early delivery and continuous improvement and it encourage rapid and flexible response to change. it's a process for managing a project that involves constant collaboration and working in iterations. Today, the word Agile can refer to these values and the frameworks for implementing them, including Scrum. One thing that saperates Agile from other approaches to software development is the focus on the people doing then work and how they work together. Solutions evolve through collaboration between self-organizing cross-functional teams utilizing the appropriate practices for their context.

4.2 UML Diagrams

4.2.1 Use Case Diagram
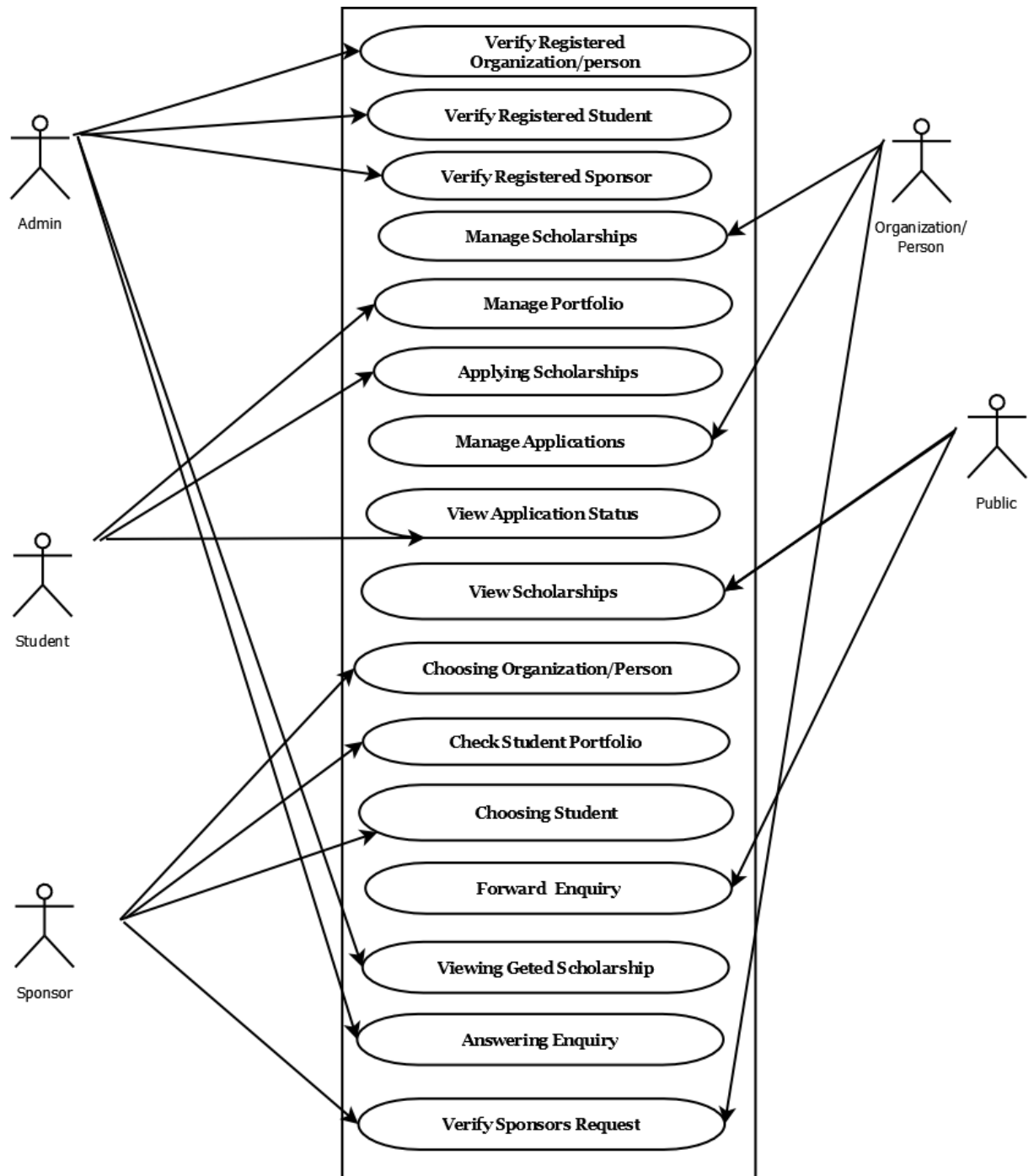
4.2.2 Activity Diagram

4.2.3 Class Diagram

Organization

Id	Int
Login	Int
Name	Char
Address	Char
Place	Char
Pin	Int
District	Char
Proof	Char
Status	Char
Phone	Char
Email	Char

Register()
Login()
Manage Profile()
Manage Application()
View Sponsor Request()

Application

Id	Int
Organ id	Int
Sch name	Char
Eligibility	Char
Start date	Date
End date	Date
Amount	Int
Sch period	Int

Sponsorship

Id	Int
Name	Char
Address	Char
Place	Char
Proof	Char
Phone no	Char
Email	Char

Login()
Registration()
Profile Manage()
Check Portfolio()
Choosing Student ()
Choosing Organization()

Student

Id	Int
Login	Int
Name	Char
Age	Int
Phone no	Char
Address	Char
Place	Char
Post	Char
District	Char
Guardian Name	Char
Latest Qualification	Char
Institution	Char
Image	Char
Gender	Char
State	Char
Email	Char

Register()
Login()
Manage Profile()
Manage Portfolio()
Send Application()
View Status()
View Request from Sponsor()

Login

Id	Int
Username	Char
Password	Char
Type	Char

Login()
Change Password()

Student Portfolio

St Id	Int
Current course	Char
Institution	Char
Mark	Int
Latest Qualification	Char
Specialization	Int
Higher Secondary	Char
High school	Char
Caste	Char
Religion	Char
Category	Char
Income	Char
Aadhar	Int
Birth certificate	Char
Awards	Char
Bank details	Char

Add()
View()

Admin

Login()
Verify Registered
Student()
Verify Organization()
View Public Enquiry()
View Geted
Scholarships()
Verify Sposor()

Sponsor request

App id	Int
Sponsor id	Int
Date	Date
Status	Char

Public Enquiry

Id	Int
Date	Date
Enquiry	Char
Reply	Char
Release date	Date

Student request

Date	Date
Status	Char
St id	Int

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4.3   User Story

User story ID	As a <Type of Users >	I want to <Perform some task >	So that I can <Achieve some goal >
1	Admin	Login	To access the system.
2	Admin	Dashboard	View Admin Dashboard.
3	Organization/ Person	Registration/Login	Login/Registration to access the system
4	Admin	Verify Registered Organization/person	Admin can verify Registered Organization .
5	Organization/ Person	Dashboard	Dashboard of Organization/Person.
6	Organization/ Person	Manage Profile	Organization/Person can update their profile
7	Organization/ Person	Manage Scholarships	Organization /person can add,edit or delete their scholarships
8	Student	Registration/Login	Login/Registration to access the system.
9	Admin	Verify Registered Student	Admin can verify registered student .
10	Student	Dashboard	Dashboard of student.
11	Public	View Scholarships	Public can view all available Scholarships .
12	Public	Forward Enquiry	Public can forward enquiry if they have any doubts.
13	Sponsors	Registration/Login	To access the System
14	Admin	Verify Registered Sponsor	Admin can verify Registered Sponsors
15	Sponsors	Dashboard	Dashboard of Sponsors.
16	Sponsors	choosing Scholarships	Viewing and accepting interested scholarships.
17	Student	Manage Portfolio	Student can add details on portfolio.

User story ID	As a <Type of Users >	I want to <Perform some task >	So that I can <Achieve some goal >
18	Student	Apply Scholarships	Students can apply for their matching scholarships
19	Organization/ Person	Manage Application Request	They can Manage application request
20	Student	view Status	Student can view status of their scholarship application.
21	Sponsors	check student portfolio	Sponsors can check interested students portfolio
22	Sponsors	Choosing Student	Send request to interested students.
23	Admin	view geted Scholarships	Admin can view geted scholarships.
24	Admin	Replying enquiry	Admin can reply to pulic enquiry.
25	Admin	view approved Scholarships	Admin can view Approved scholarships.
26	organization/ person	view sponsors request	They can view sponsors request.

4.4 Product Backlog

User Story ID	Priority (Low,High, Medium)	Size	Sprint	Status (Planned, Progressed, Completed)	Release Date	Release Goal
1	High	9		Planned	03/2/24	Admin Login
2	High	9		planned	05/2/24	Admin Dashboard
3	High	7		planned	07/2/24	Organization/ Person login/ Registration
4	High	8		planned	10/2/24	Admin verify registered organization/person
5	High	7	1	planned	11/2/24	Dashboard of Organization/Person
6	High	6		planned	13/2/24	organization/ person manage profile
7	High	7		planned	15/2/24	Manage Scholarships by organization/ person
8	High	6	2	planned	17/2/24	Student Registration/Login
9	Medium	7		planned	19/2/24	Admin verify registered student

User Story ID	Priority (Low,High, Medium)	Size	Sprint	Status (Planned, Progressed, Com-pleted)	Release Date	Release Goal
10	Medium	8		planned	20/2/24	Student Dash-board
11	Medium	7		planned	22/2/24	Public view Scholarship Details
12	High	6		planned	24/2/24	public forward Enquiry
13	Medium	7		planned	26/2/24	Sponsors Reg-istration/Login
14	Medium	8	3	planned	27/2/24	Admin verify registered sponsor
15	Medium	8		planned	29/2/24	Sponsor dash-board
16	Low	7		planned	02/3/24	Sponsor choosing scholarships
17	High	6		planned	04/3/24	Student Man-age Portfolio
18	High	7	4	planned	06/3/24	Apply Scholar-ships
19	High	8		planned	08/3/24	Orgainzation/ person manage application request

User Story ID	Priority (Low,High, Medium)	Size	Sprint	Status (Planned, Progressed, Completed)	Release Date	Release Goal
20	High	6		planned	10/3/24	Student View Status
21	High	6		planned	12/3/24	Sponsors Check Student Portfolio
22	High	6		planned	16/3/24	Sponsors send request to the interested students
23	High	6	5	planned	23/3/24	Admin View Geted Scholarships
24	High	6		planned	26/3/24	Admin can reply to public Enquiry
25	High	6		planned	31/3/24	Admin can view approved scholarships
26	High	6		planned	03/4/24	Admin can View Sponsors Request

4.5 Project Plan

User story ID	Task name	Start date	End date	Days	Status Goal
1	Admin Login	01/2/24	03/2/24	3	Planned
2	Admin Dashboard	04/2/24	05/2/24	2	Planned
3	Organization/ Person Registration/login	06/2/24	07/2/24	2	Planned
4	Admin verify registered organization/person	08/2/24	10/2/24	2	Planned
5	Dashboard of Organization/Person	11/2/24	11/2/24	1	Planned
6	organization/ person manage profile	12/2/24	13/2/24	2	Planned
7	Manage Scholarships by organization/ person	14/2/24	15/2/24	2	Planned
8	Student Registration/Login	16/2/24	17/2/24	2	Planned
9	Admin verify registered student	18/2/24	19/2/24	2	Planned
10	Student Dashboard	20/2/24	20/2/24	1	Planned

User story ID	Task name	Start date	End date	Days	Status Goal
11	Public view Scholarship Details	21/02/24	22/02/24	2	Planned
12	Public forward Enquiry	23/02/24	24/02/24	2	Planned
13	Sponsors Registration/Login	25/02/24	26/02/24	2	Planned
14	Admin verify registered sponsor	27/04/24	27/02/24	1	Planned
15	Sponsor dashboard	28/02/24	29/02/24	2	Planned
16	Sponsor choosing scholarships	01/03/24	02/03/24	2	Planned
17	Student Manage Portfolio	03/03/24	04/03/24	2	Planned
18	Apply Scholarships	05/03/24	06/03/24	2	Planned
19	Organization/ person manage application request	07/03/24	09/3/24	2	Planned
20	Student View Status	09/03/24	10/03/24	4	Planned

User story ID	Task name	Start date	End date	Days	Status Goal
21	Sponsors check student portfolio	11/03/24	12/03/24	2	Planned
22	Sponsors send request to the interested students	13/03/24	16/03/24	2	Planned
23	Admin View Geted Scholarships	21/3/24	23/3/24	2	Planned
24	Admin can reply to public enquiry	25/3/24	27/3/24	4	Planned
25	Admin View approved scholarships	28/3/24	31/3/24	4	Planned
26	Admin View Sponsors request	01/04/24	03/04/24	3	Planned

4.6   Database Design

4.6.1   Login Table

The login table is the cornerstone of user authentication in the project, containing essential fields such as login ID, username, password, and login type. Each row represents a distinct user account, with the login ID serving as a unique identifier. Usernames allow users to log in securely, while passwords are securely hashed to protect sensitive information. The "type of user" column categorizes users into different roles within the project, including admin, organization/person, student and sponsors.

No.	Name	Type	Constraints	Description
1	Login_id	INT(11)	PRIMARY KEY	Login id
2	Username	CHAR(25)	NOT NULL	Email id of user
3	Password	CHAR(25)	NOT NULL	Password of user
4	Login_type	CHAR(25)	NOT NULL	Type of user

Table 4.1: Login Table

4.6.2 Organization/Person Table

Organization/Person table contains their name,email,phone,address details and mainly their identity proof for verification

No.	Name	Type	Constraints	Description
1	Id	INT(11)	PRIMARY KEY	Id of student
2	Name	CHAR(20)	NOT NULL	Name of organization / person
3	Address	CHAR(25)	NOT NULL	Address of Organization / person
4	Place	CHAR(25)	NOT NULL	Place of organization/person
5	District	CHAR(25)	NOT NULL	District of organization/person
6	Proof	CHAR(25)	NOT NULL	organization/person identity proof
7	Pin	INT(11)	NOT NULL	Pincode of organization/person
8	Phone no	CHAR(15)	NOT NULL	Phone number of organization/person
9	Email	CHAR(30)	NOT NULL	Email of organization/person
10	Login_id	INT(11)	Foreign KEY	Login id

Table 4.2: Organization / Person Table

4.6.3 Student Table

The Student table has essential fields like unique student id, associated Login id, name (name), Place (location), Phone (contact), Email, Dob,Gender,parents name, and Student Photo (license number). This design ensures a compact yet informative representation of Student details.

No.	Name	Type	Constraints	Description
1	Student_Id	INT(11)	PRIMARY KEY	Id of Student
2	Name	CHAR(20)	NOT NULL	Name of Student
3	DoB	Date	NOT NULL	Date of birth
4	Address	CHAR(25)	NOT NULL	Address of student
5	Place	CHAR(25)	NOT NULL	Place of student
6	Pincode	INT(11)	NOT NULL	Student pincode
7	District	Char(30)	NOT NULL	District of student
8	Gender	CHAR(25)	NOT NULL	Student Gender
9	State	CHAR(30)	NOT NULL	Student state
10	Photo	CHAR(250)	NOT NULL	Driver Photo
11	Country	CHAR(50)	NOT NULL	Student Country
12	Parents_Name	CHAR(30)	NOT NULL	StudentParent Name
13	Email	CHAR(50)	NOT NULL	Student Email
14	Phoneno	CHAR(50)	NOT NULL	Student Phoneno
15	Latest_Qualification	CHAR(50)	NOT NULL	Student Latest Qualification
16	Institution	CHAR(50)	NOT NULL	StudentInstitution Name
17	Login_id	INT(11)	Foreign KEY	Login id

Table 4.3: Student Table

4.6.4 Scholarships

This is the main table which consist of scholarship name,scholarship number,Eligibility,start date,ending date,renewal date,amount and scholarship period.

No.	Name	Type	Constraint	Description
1	Sch_id	INT(11)	PRIMARY KEY	Scholarship id
2	O_id	INT(11)	FOREIGN KEY	Organization Person id
3	Scholarship_Name	CHAR(30)	NOT NULL	Name of Scholarship
4	Scholarship_Number	CHAR(30)	NOT NULL	Number of Scholarship
5	Eligibility	CHAR(25)	NOT NULL	Eligibility Details
6	Start_Date	Date	NOT NULL	Starting Date
7	End_Date	Date	NOT NULL	Ending Date
8	Renewal_Date	Date	NOT NULL	Renewal Date
9	Amount	Int	NOT NULL	Scholarship Amount
10	Scholarship_Period	CHAR(40)	NOT NULL	Scholarship Period
11	More	CHAR(55)	NOT NULL	More about Scholarships

Table 4.4: Scholarship Table

4.6.5 Public Enquiry Table

Public enquiry table consists of date,enquiry message,reply ,user email,name,phoneno and reply date

No.	Name	Type	Constraints	Description
1	P_id	INT(11)	PRIMARY KEY	Public Enquiry id
2	Date	DATE	NOT NULL	Date of Enquiry
3	Enquiry	CHAR(20)	NOT NULL	Public Enquiry
4	Reply	CHAR(50)	NOT NULL	Reply of Enquiry
5	Email	CHAR(50)	NOT NULL	Email id
6	Name	CHAR(50)	NOT NULL	Name of User
7	Phoneno	CHAR(15)	NOT NULL	Phone no
8	Reply_date	DATE	NOT NULL	Reply Date

Table 4.5: Public Enquiry Table

4.6.6 Sponsors Table

Sponsor table includes name,personal details and identity proof for verification

No.	Name	Type	Constraints	Description
1	S_id	INT(11)	PRIMARY KEY	Id of Sponsor
2	Name	CHAR(20)	NOT NULL	Sponsor Name
3	Place	CHAR(25)	NOT NULL	Place of Sponsor
4	Address	CHAR(25)	NOT NULL	Sponsor Address
5	District	CHAR(30)	NOT NULL	Sponsor District
6	Email	CHAR(30)	NOT NULL	Sponsor Email
7	Phoneno	CHAR(30)	NOT NULL	Sponsor Phoneno
8	Proof	CHAR(30)	NOT NULL	Sponsor Identity Proof

Table 4.6: Sponsor Table

4.6.7 Sponsor Request

Sponsor request table includes unique requesting id,sponsor id,Scholarship id,Date,status

No.	Name	Type	Constraint	Description
1	Request_id	INT(11)	PRIMARY KEY	Request id
2	Sponsor_id	INT(11)	FOREIGN KEY	Sponsorship id
3	Scholarship_id	INT(11)	FOREIGN KEY	Scholarship id
4	Date	Date	NOT NULL	Request Date
5	Status	CHAR(40)	NOT NULL	Request Status

Table 4.7: Sponsor Request Table

4.6.8 Application Request

Application request table contain unique application id,scholarship id,student id,status,date,reason

No.	Name	Type	Constraint	Description
1	Sch_id	INT	PRIMARY KEY	Scholarship Request id
2	App_id	INT(11)	FOREIGN KEY	Application Id
3	Student_id	INT(11)	FOREIGN KEY	Student id
4	Status	CHAR(30)	NOT NULL	Status of request
5	Date	DATE	NOT NULL	Request Date
6	Reason	CHAR(30)	NOT NULL	Rejected Reason

Table 4.8: Application Request Table

4.6.9 Student Request

Student request table contain unique student request id,sponsor id,student id,status,date,reason

No.	Name	Type	Constraint	Description
1	Studentrequest_id_id	INT	PRIMARY KEY	Student request id
2	Sponsor_id	INT(11)	FOREIGN KEY	Sponsor Id
3	Student_id	INT(11)	FOREIGN KEY	Student id
4	Status	CHAR(30)	NOT NULL	Status of request
5	Date	DATE	NOT NULL	Request Date

Table 4.9: Student Request Table

4.6.10 Student Portfolio Table

This table consist of student educational details,documents ,bank details and their personal information

No.	Name	Type	Constraint	Description
1	Portfolio_id	INT(11)	PRIMARY KEY	Portfolio Id
2	Student_id	INT(25)	FOREIGN KEY	Student Id
3	Current_course	CHAR(40)	NOT NULL	Student Current Course
4	Institution	CHAR(25)	NOT NULL	Institution Name
5	Grade	CHAR(20)	NOT NULL	Student Grade
6	Specilization	CHAR(45)	NOT NULL	Specialization Name
7	HigherSecondary	CHAR(45)	NOT NULL	Student Higher Secondary
8	High School	CHAR(45)	NOT NULL	Student High School
9	Caste	CHAR(45)	NOT NULL	Student Caste
10	Religion	CHAR(45)	NOT NULL	Student Religion
11	Category	CHAR(45)	NOT NULL	Student Category
12	Family Income	INT(45)	NOT NULL	Family Income
13	AdhaarNumber	INT(45)	NOT NULL	Student Adhaar Number
14	IncomeCertificate	CHAR(45)	NOT NULL	Incomecertificate
15	Birthcertificate	CHAR(45)	NOT NULL	Birth Certificate
16	BankAccount	INT(45)	NOT NULL	Student Bank Account Number

Table 4.10: Student Portfolio Table

4.7   FORM DESIGN

4.7.1   Login page

The is a login page, featuring a header that says "Welcome" and a form with fields for Username and Password. The form has a blue border and the text and buttons are in black. There are two blue butto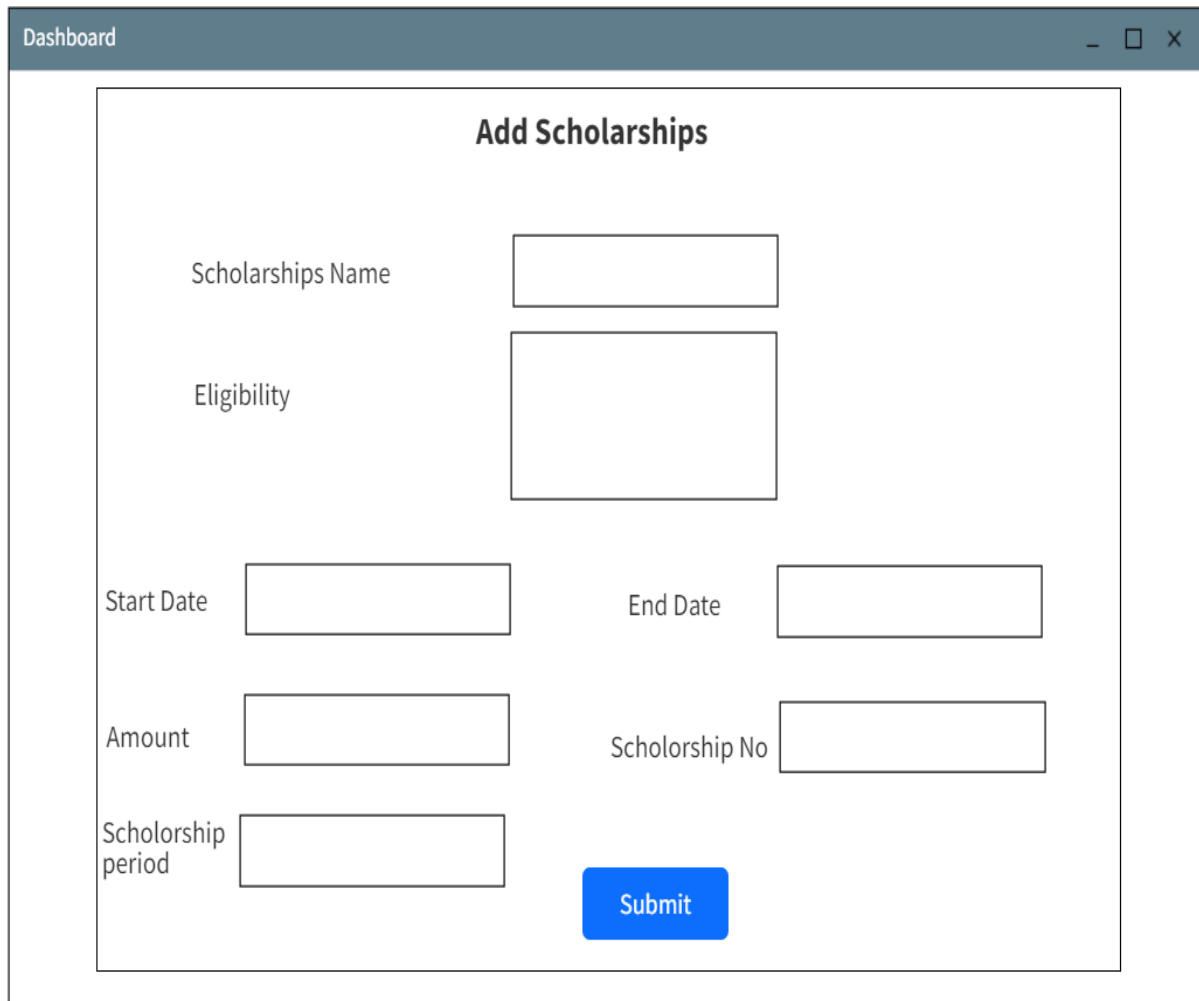ns below the form, one saying "LOGIN" and the other saying "Sign Up". There is also a " Forgot password" link below the password field.

Figure 4.1: Login page

4.7.2 Admin Home page

This appears to be the navigation menu for a scholarship-related website or application called "Scholar Chain." The menu includes the following options: Dashboard, Home, Students, Organization/person, Sponsors, Geted Scholarships, Public Enquiry, and Logout. It seems that users can view and manage scholarships, student information, and sponsor information. There are also options for public inquiries and logging out of the system.
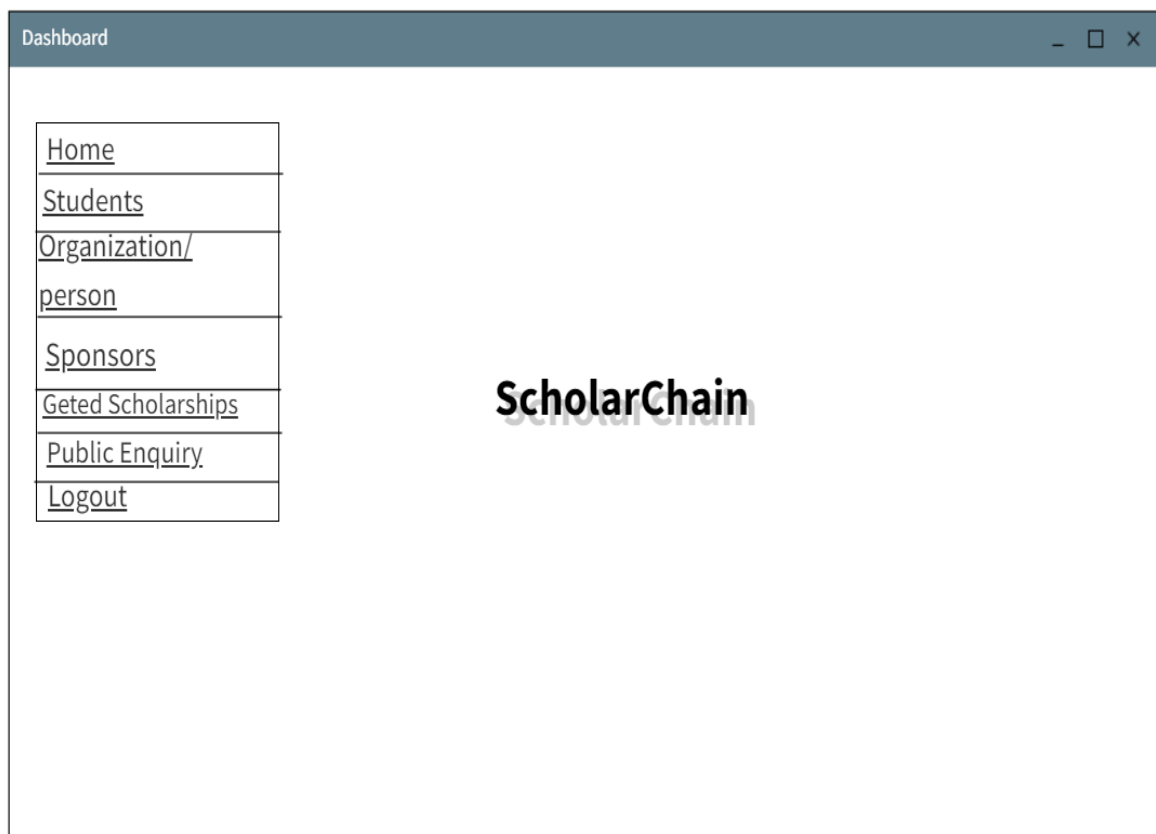
Figure 4.2: Admin Home page

4.7.3 Verify Organization/Person page

This form design appears to be a table or list of organizations or persons on a scholarship-related website or application called "Scholar Chain." The table includes the following columns: Serial Number (Sl No), Name, Filter, Phone, Email, Proof, and More (with an additional duplicate "More" column at the end). There are also two buttons at the end of each row: "Accept" and "Reject," likely used to approve or deny applications from organizations or persons.
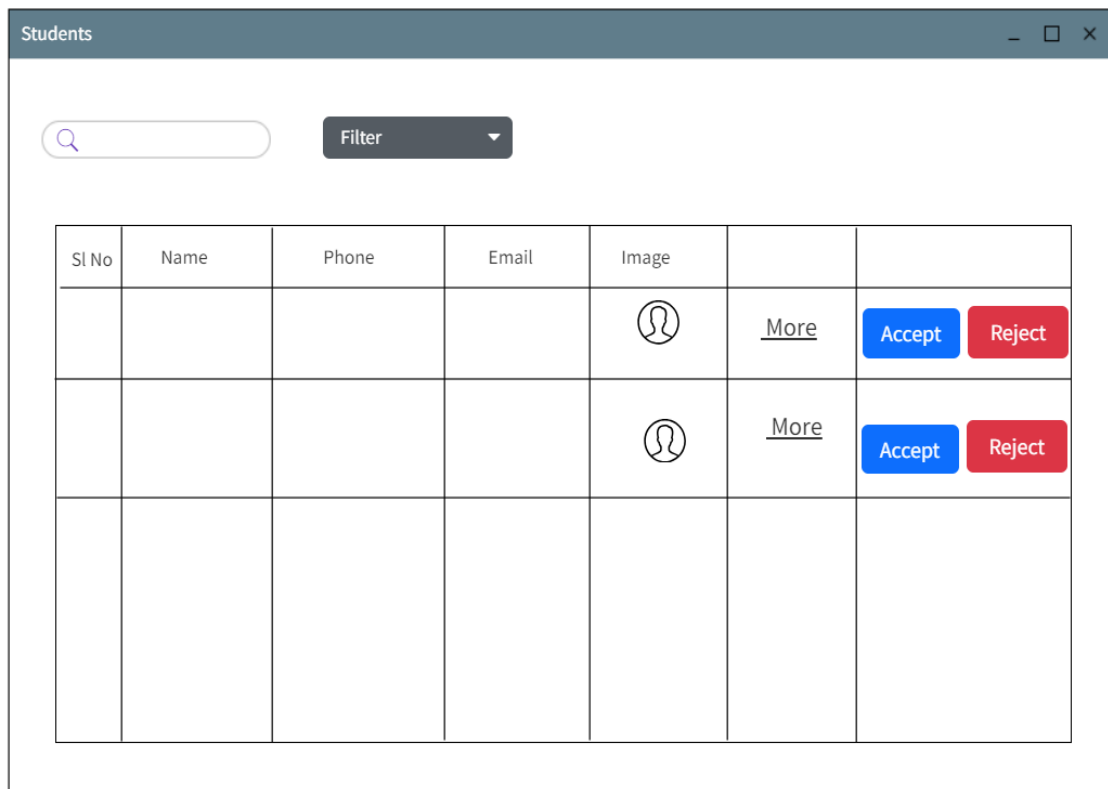
Figure 4.3: Verify Organization/Person page

4.7.4 Verify Students page

This appears to be a table or list of students on a scholarship-related website called "Scholar Chain." The table includes the following columns: Serial Number (Sl No), Name, Filter, Phone, Email, Image, and More (with an additional duplicate "More" column at the end). There are also two buttons at the end of each row: "Accept" and "Reject," likely used to approve or deny scholarship applications from students.
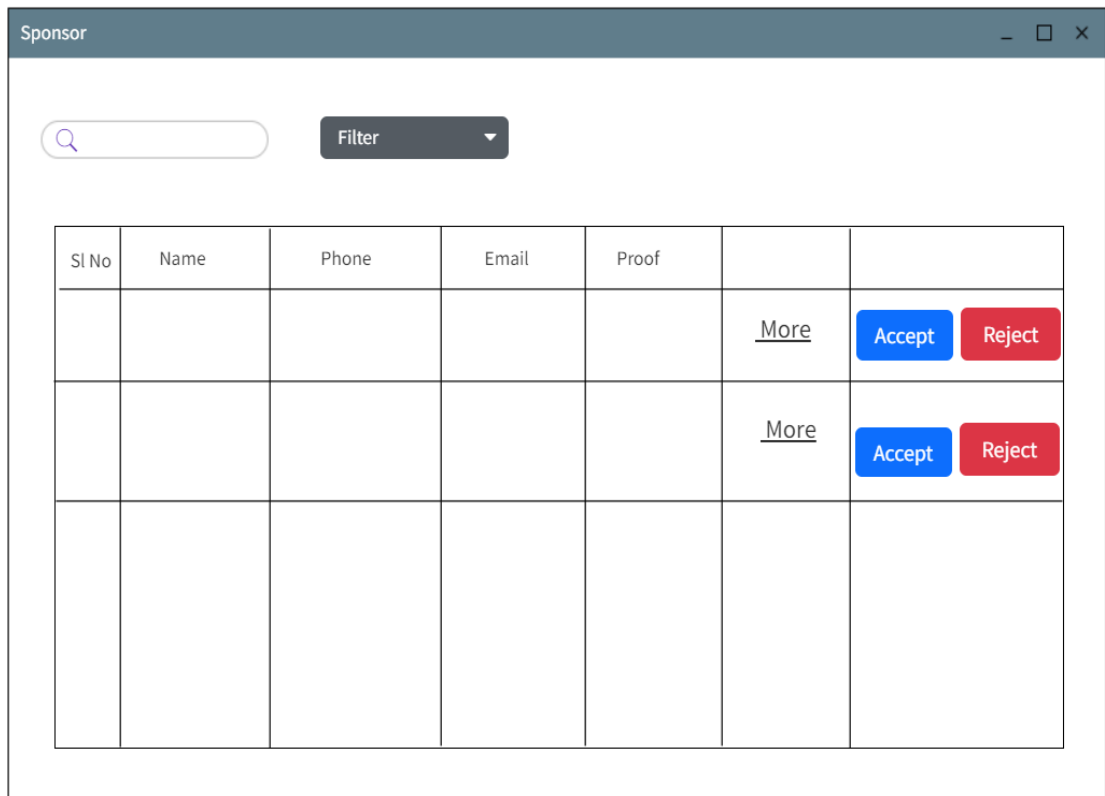
Figure 4.4: Verify Students page

4.7.5 Verify Sponsors page

This form design appears to be a table or list of sponsors on a scholarship-related website or application called "Scholar Chain." The table includes the following columns: Sponsor, Serial Number (Sl No), Name, Filter, Phone, Email, Proof, and More (with an additional duplicate "More" column at the end). There are also two buttons at the end of each row: "Accept" and "Reject," likely used to accept or reject applications or agreements from sponsors.
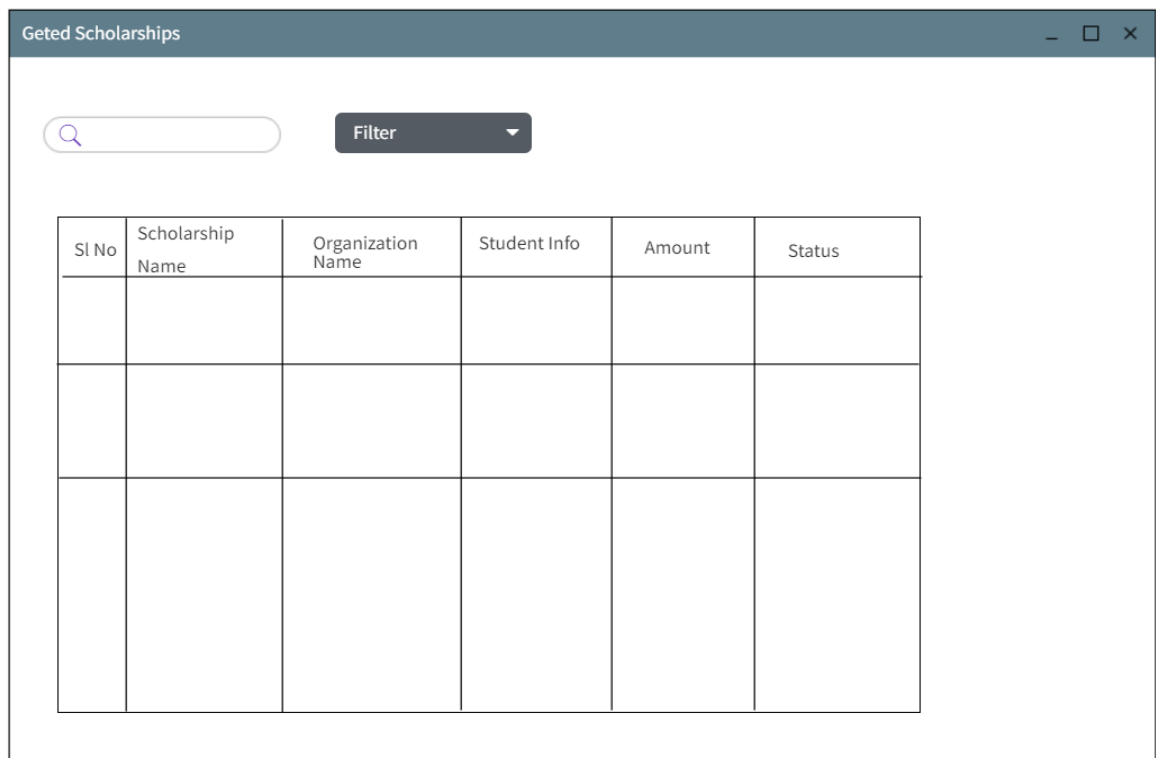
Figure 4.5: Verify Sponsors page

4.7.6 View Geted Scholarships

This appears to be a table or list of scholarships on a scholarship-related website or application called "Geted Scholarships" within the "Scholar Chain" platform. The table includes the following columns: Serial Number (Sl No), Scholarship Name, Filter, Organization Name, Student Info, Amount, and Status. There are also two buttons at the end of each row: "Accept" and "Reject," likely used to approve or deny applications for specific scholarships. The table appears to show the scholarship name, organization name, student information, amount, and status for each scholarship. The "Geted Scholarships" title suggests that these are scholarships that have been obtained or acquired through the platform.

Figure 4.6: View Geted Scholarship page

4.7.7 Registration page

The image is a screenshot of a registration form with fields for Name, Place, Address, Pincode, Username, Confirm Password, Email, Phone, District, Proof (license), and Password. The form has a "REGISTRATION" button at the bottom. There is also a "Already have an account? Sign Up" link below the "REGISTRATION" button..

Figure 4.7: Registration page

4.7.8 Dashboard

This page contain navigation bar located at the top of a form. The bar is divided into several tabs including "Dashboard", "Profile", "Scholarships", "Applications", "Sponsors request", and "Logout". The bar is fixed at the top of the page and remains visible while scrolling. The bar also has the functionality of collapsing in smaller screens.
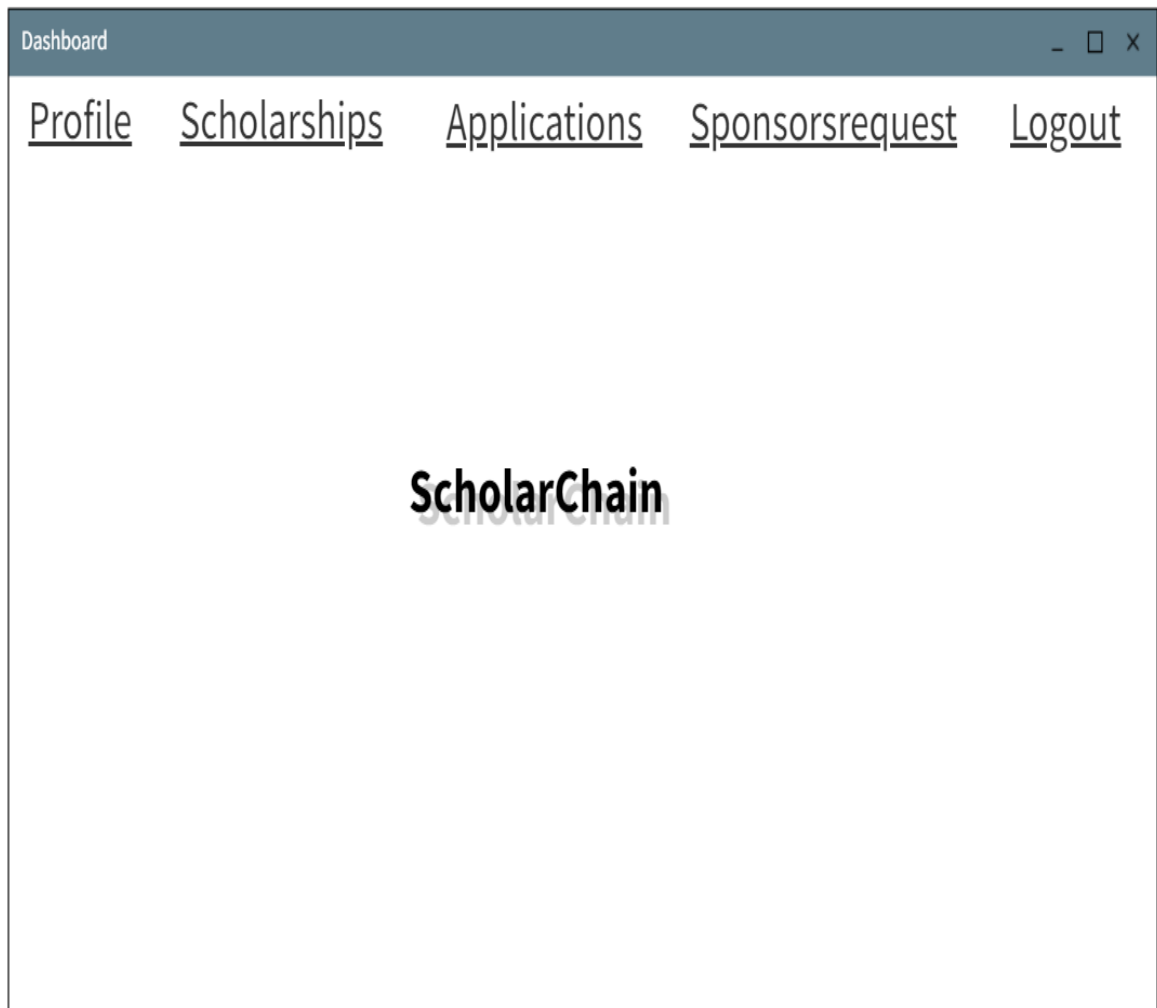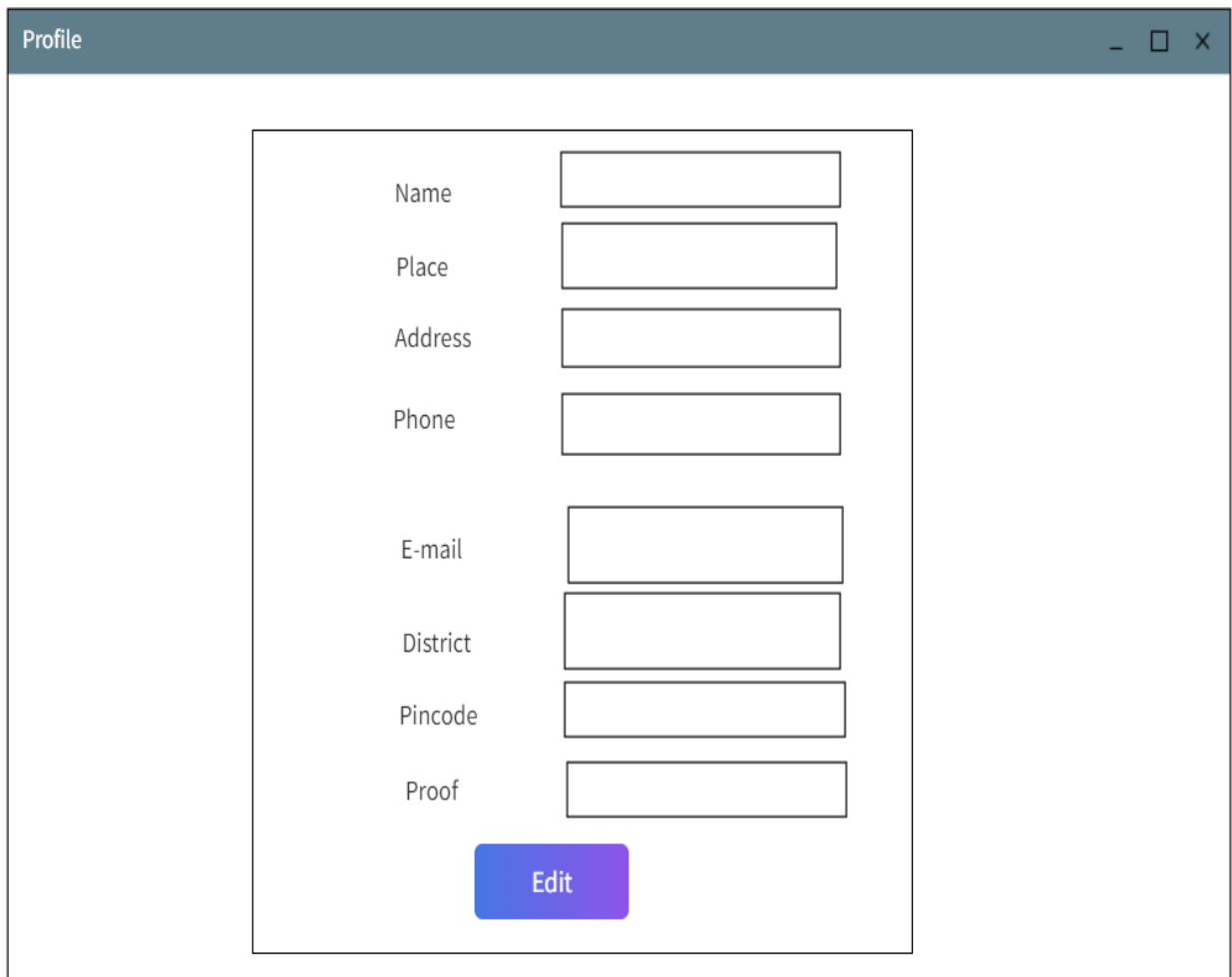
Figure 4.8: Dashboard

4.7.9 View Profile

This displaying personal information. The information displayed includes the user's name, place, address, phone, email, district, pincode, and proof. There is a blue button on the bottom of the page that says "Edit Profile" which allows the user to edit their personal information.

Figure 4.9: View Profile page

4.7.10   Edit Profile

This form featuring a header that says "Edit Profile" and a form with several fields to be filled in, including Name, Gender, Email, Phone, Photo, Address, Place, Pincode, District, DoB, Username, and Password. The form has a blue border and the text and buttons are in black. There are three blue buttons below the form, one saying "Update", and one saying "Upload".

Figure 4.10: Edit Profile page

4.7.11 Add Scholarship page

The displaying information about Adding scholarships. The information displayed includes the name of the scholarship, the amount, eligibility, start date, scholarship period, scholarship number, and an "Add Scholarships" button. There is also a "Submit" button on the top right corner. The dashboard is organized in a table format with each row representing a different scholarship.

Figure 4.11: Add Scholarship page

4.7.12 Scholarship List

This form featuring a table displaying a list of scholarships. The table has a header with the title "Scholarships" and columns for Scholarship Name, Eligibility, Amount, Start Date, and End Date. There are two rows of scholarship information displayed in the table. There are also buttons for "Edit" and "Delete" for each scholarship, and a button for "Scholarships List" on the top right corner.

Figure 4.12: Scholarships List

4.7.13 Application

The image is a screenshot of a table displaying scholarship applications. The table has a header with the title "Scholarships" and columns for SI No, Application Number, Filter, Student Info, Name, Date, Proof Income, and three columns for Accept and Reject buttons. The table has a blue background and the text is white. There are several rows of scholarship applications displayed in the table. Each row has a checkbox on the left side, which allows to select an application.

Figure 4.13: Application

4.7.14 Student Homepage

The is a screenshot of a Application with a white background, featuring a header that says "Scholar Chain" in the middle, and two blue buttons below it, one saying "Login" and the other saying "Sign Up" and it should be called as homepage of student
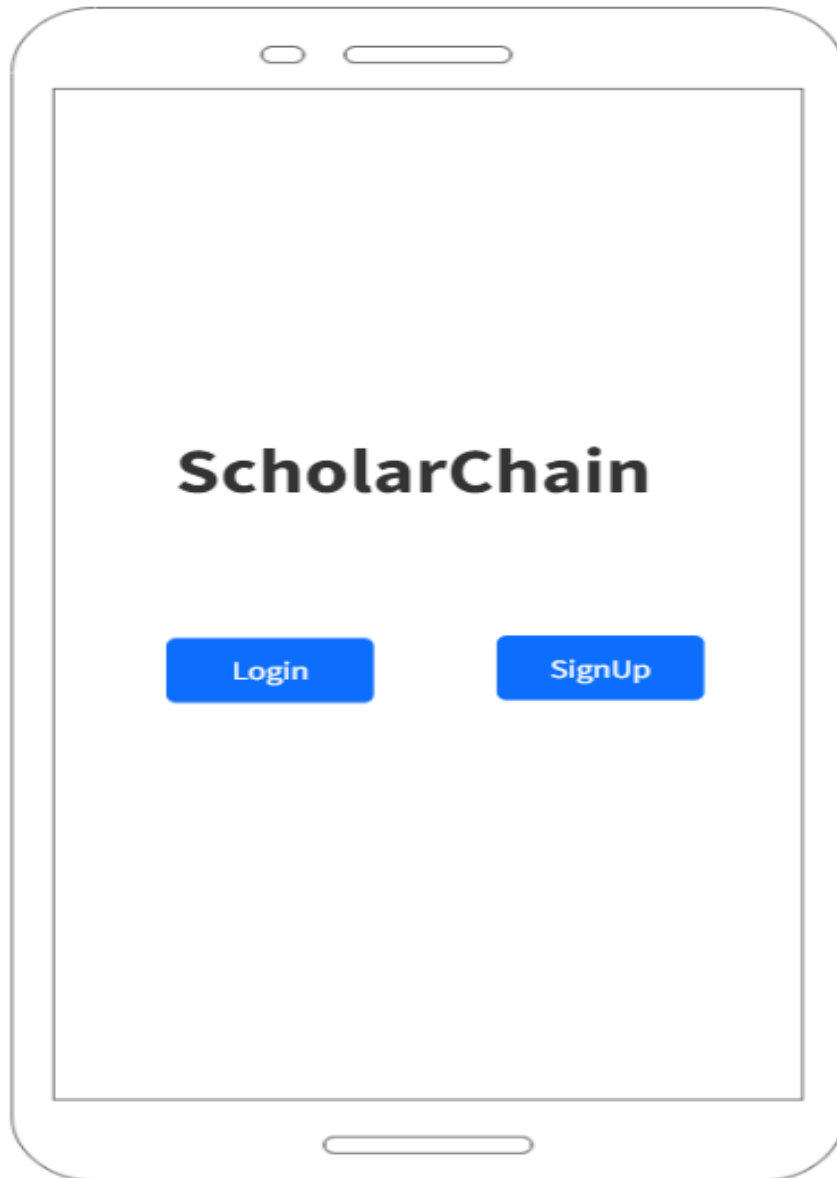
Figure 4.14: Student Homepage

4.7.15   Student Registration

The is a screenshot of a registration form of student with several fields to be filled in, including Name, Gender, E-mail, Phone, Photo, Address, Place, Pincode, District, DoB, UserName, Password, and Confirm Password. The form has a white background and a blue border, and the text and buttons are in black. The form has a "Register" button at the bottom.

Figure 4.15: Student Registration

4.7.16 Student Portfolio

This pages is the portfolio of student including student personal details,education details, Income Certificate Upload, Birth Certificate Upload, Adhaar Number, Caste Certificate, bank details and a declaration form.The pages are divided into sections and each page contain two blue buttons at the bottom of the form, one saying "Save" and the other saying "Upload", and a "Next" button on the top right corner and on final page their should be a submit button
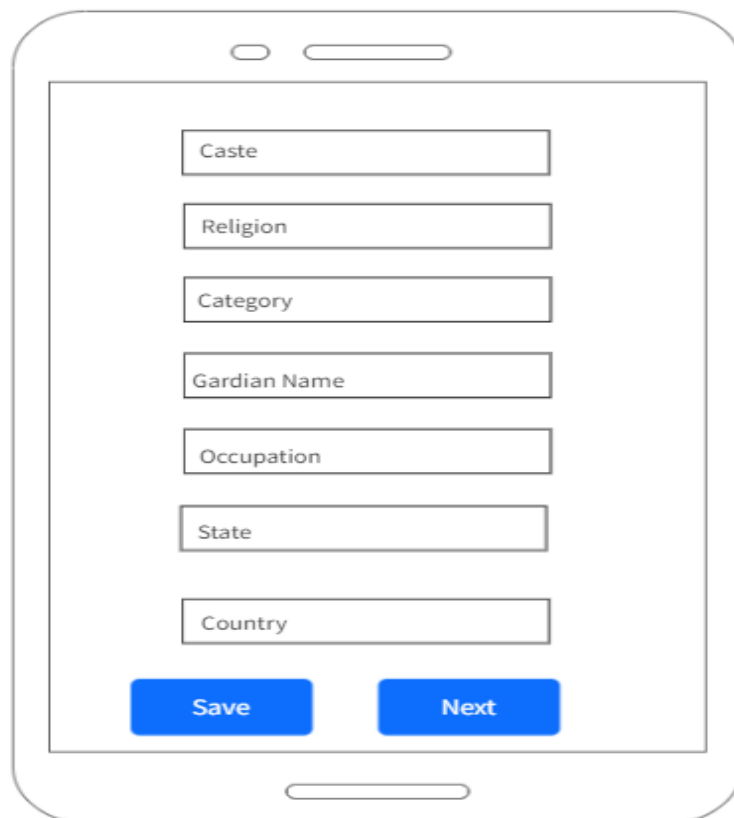
Figure 4.16: Student Portfolio

Figure 4.17: Student Portfolio

Figure 4.18: Student Portfolio

Figure 4.19: Student Portfolio

4.7.17 Scholarships

This form design includes the following columns: Scholarship Name, Scholarship Number, Amount, Start Date, Scholarship Period, and End Date. There are also two columns at the end of the table for "Apply" buttons, allowing users to apply for each respective scholarship. The table appears to show the name, number, amount, start date, scholarship period, and end date for each scholarship. The "Apply" buttons enable users to directly apply for the scholarships they are interested in.

Figure 4.20: Scholarships

4.7.18 Sponsor Request

This contains a form for accepting or rejecting sponsors and includes the following columns: Sponsor Name, Phone, Email, Address, and two buttons at the end of each row: "Accept" and "Reject." This layout suggests that the user is responsible for reviewing and accepting or rejecting sponsors for scholarships or other opportunities. The "Address" column is likely for providing the physical address of the sponsor.

Figure 4.21: Sponsor request

4.7.19 Public Homepage

This page is homepage for public for viewing scholarships and the other button is for submitting the enquiry whether regards to any scholarships
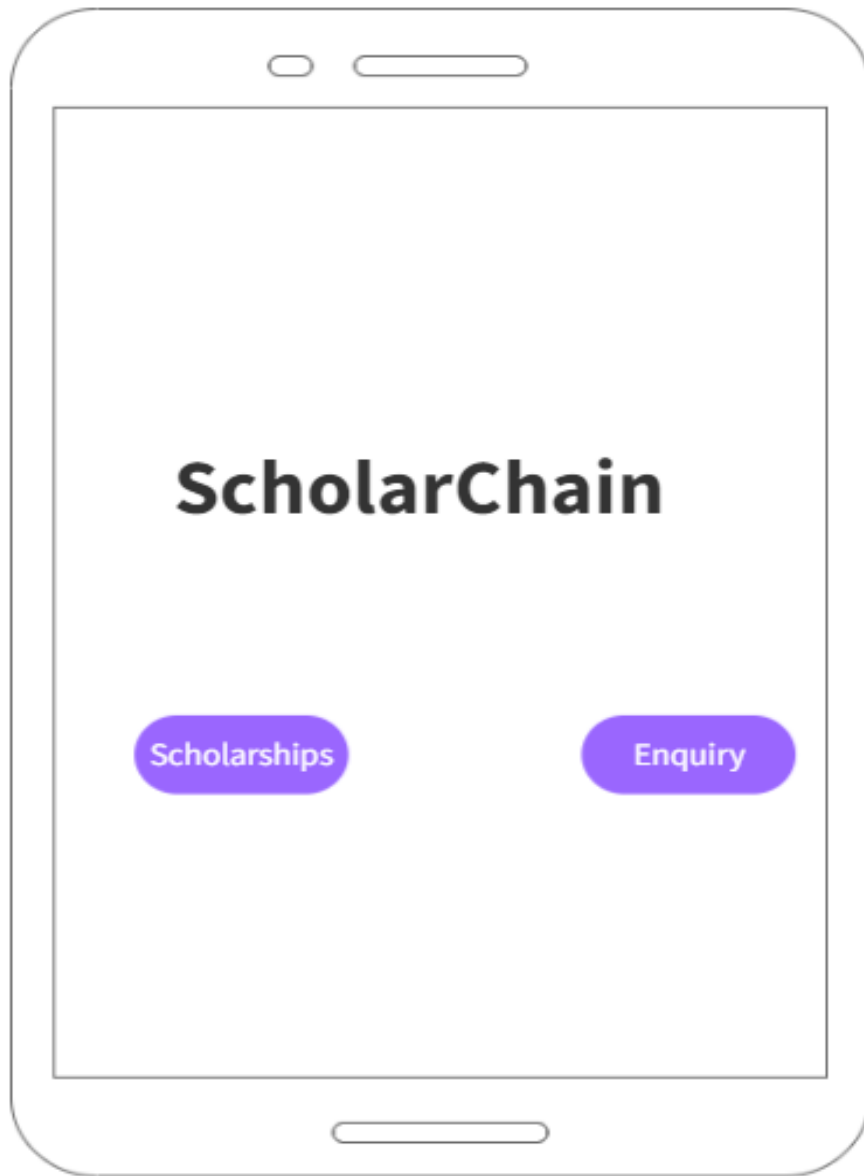
Figure 4.22: public homepage

4.7.20 Enquiry

The form appears to collect basic contact information, such as the user's name, email address, and phone number. In addition, the form includes a field for users to enter the date of their inquiry and another field for them to submit their message or question. The "Submit" button allows users to send their inquiry to the website or application.
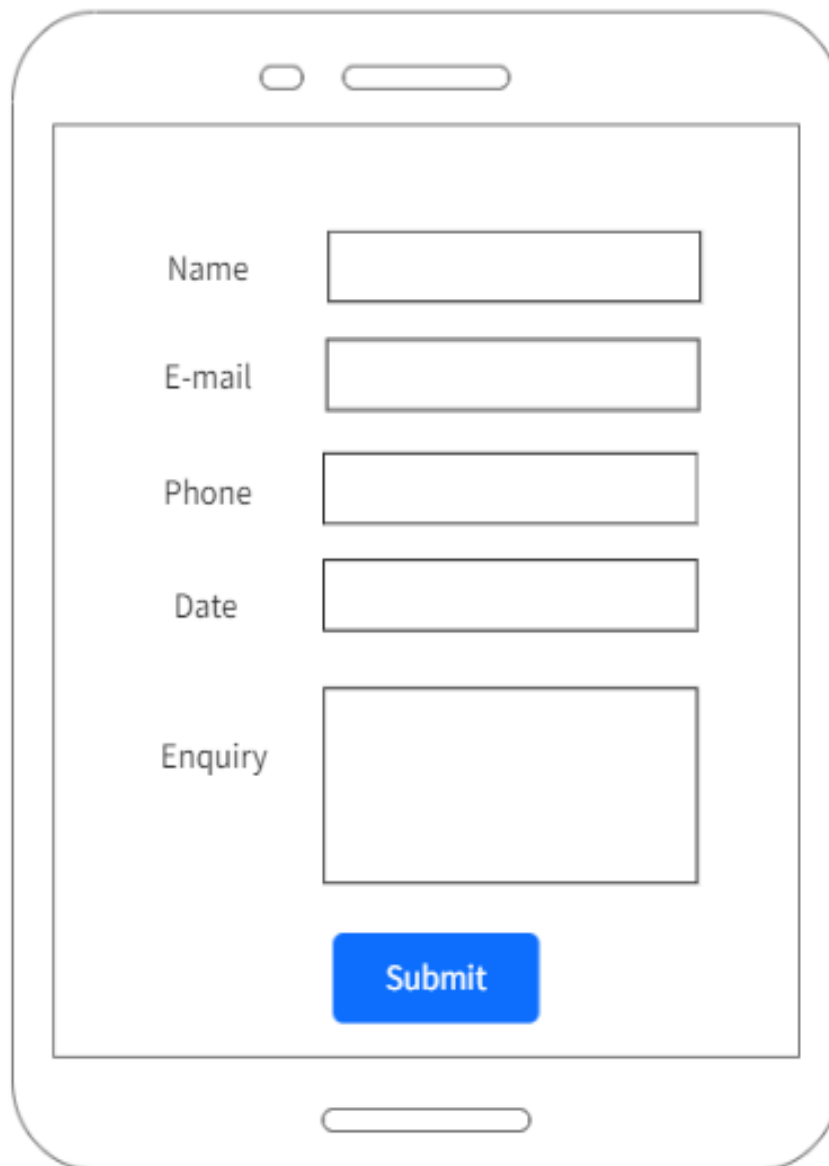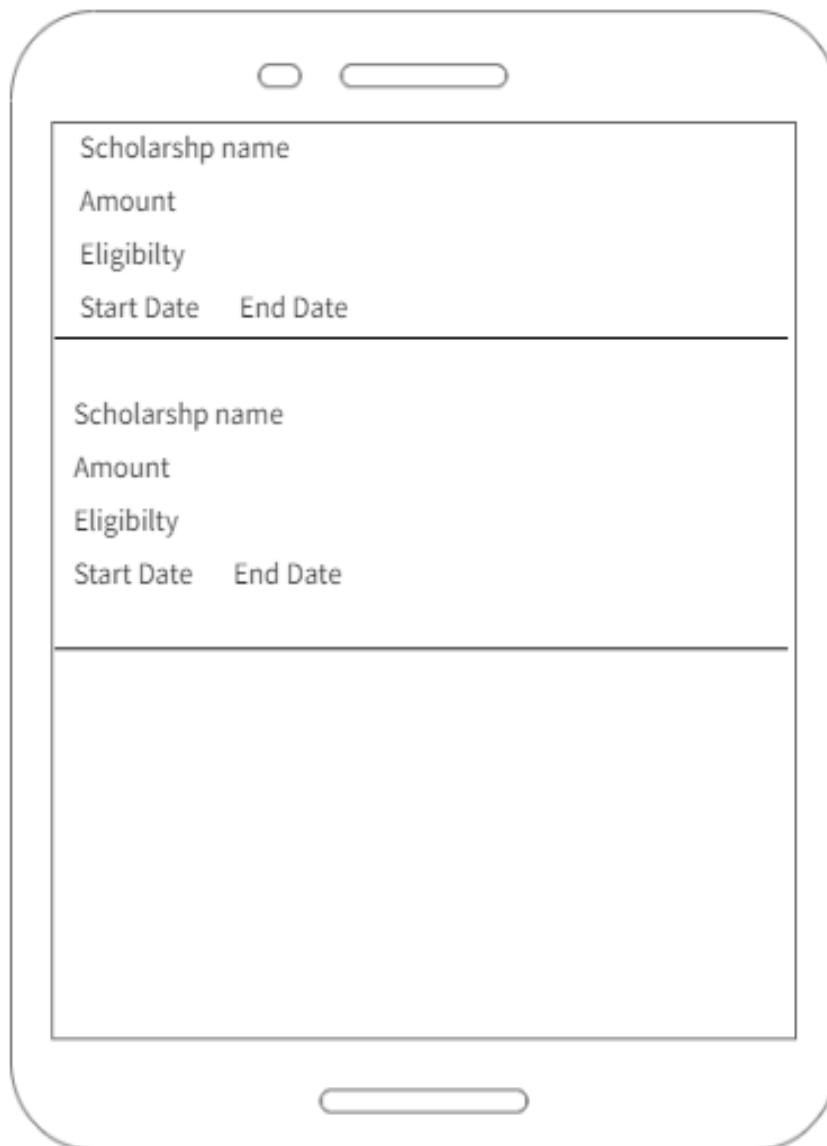
Figure 4.23: Public Enquiry

4.7.21 View Scholarships

The image is a screenshot of a table displaying a list of scholarships. The table has a header with columns for Scholarship name, Amount, Eligibility, Start Date, and End Date. The table has several rows of scholarship information displayed. The text is in black and the font is consistent throughout the table. Each row of the table has a blue background, and the text is white. The table has a blue border.

Figure 4.24: View Scholarships

4.7.22 Sponsor Homepage

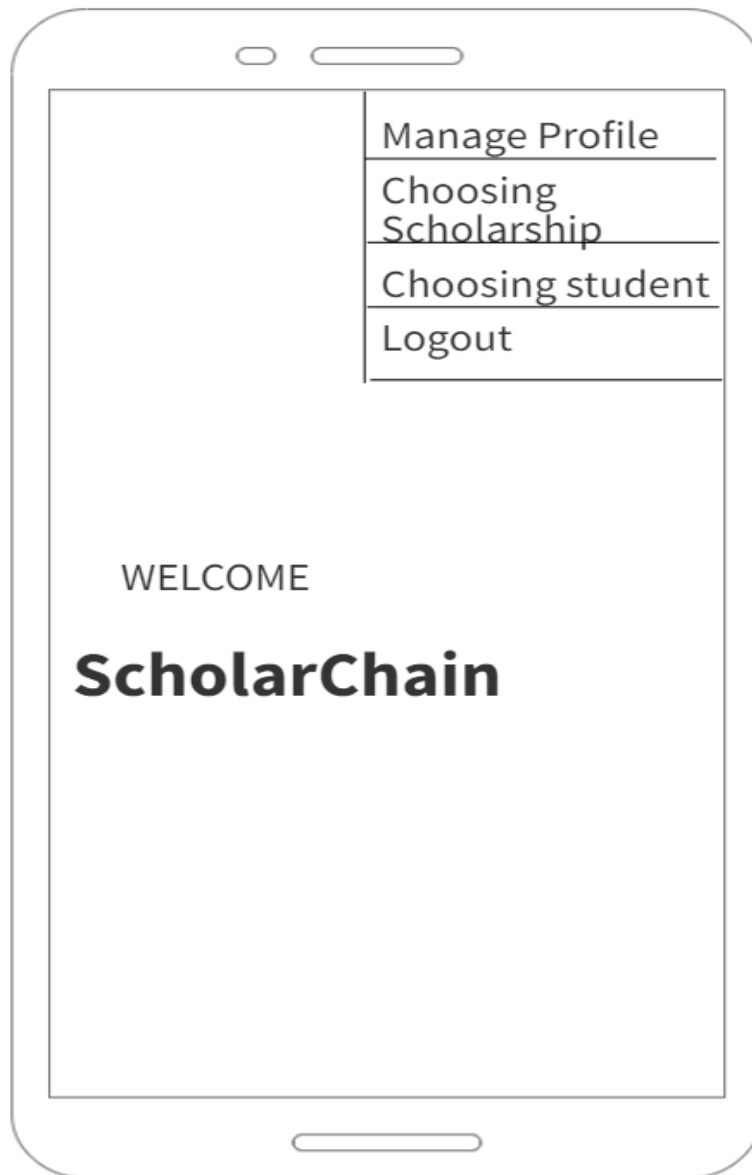This is the homepage of sponsor consists of nav bar on the top with respect to choosing scholarships,choosing students,manage profile,logout fields

Figure 4.25: Sponsor Home Page