

Chit Fund-Save your Money First

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Fall-2021

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Submission Form for Final-Year

PROJECT REPORT



	V 2.0
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	NUMBER OF MEMBERS	3
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TITLE	Online Chit Fund
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APPROVAL CERTIFICATE

This project, entitled as “Online Chit Fund” has been approved for the award of

Bachelors of Science in Software Engineering

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DECLARATION

I/We, hereby, declare that "No portion of the work referred to in this project has been submitted in support of an application for another degree or qualification of this or any other university/institute or other institution of learning". It is further declared that this undergraduate project, neither as a whole nor as a part there of has been copied out from any sources, wherever references have been provided.

MEMBERS' SIGNATURES

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Chapter 1

Introduction

Online Chit Fund is web-based application. In this chapter describes scope of Chit fund and tools and techniques. Online Chit Fund is a safe reliable and digital way of doing committee unlike traditional committees. Chit Fund is always available for users to join. Our Platform will find all the members for you to the right committee and provides a platform that gives you complete transparency of all user payments, money and groups. Money saving is very important for each and every human being in the world. Savings is one of the key factors that lead the person to succeed in his life. But unfortunately, there is no such online platform available where people can trust and they can save their capital for future expenses.

1.1. Functional Requirement List

Functional requirements in our system are as follows in Table 1.1 User can register into to system. User can logged into the system, User can view the dashboard, User can update his Profile, User can view committee sections, User can view registered members, User can enroll into the committee, User can check his reward month, User can verify his profile by Gov. issued document, User can select payment method, User can logout from the system, User can do payment. Admin can logged into the system, Admin can view Dashboard, Admin can create committee types, Admin can update committee, Admin can delete committee, Admin can create price list for committees, Admin can add members , Admin can edit members, Admin can make winner of committee, Admin can view Committee Members Record, Admin can logout from system.

Table 1. 1 Functional Requirements

S. No.	Functional Requirement	Type	Status
1	User can register into to system	Core	Implemented
2	User can logged into the system	Core	Implemented
3	User can view the dashboard	Core	Implemented
4	User can update his Profile	Core	Implemented
5	User can verify his profile by Gov. issued document (ID Card)	Core	Implemented
6	User can view committee sections	Core	Implemented
7	User can enroll into the committee	Core	Implemented
8	User can do payment	Core	Implemented
9	User can check his status	Core	Implemented
10	User can logout from the system	Core	Implemented
11	Admin can logged into the system	Core	implemented
12	Admin can view Dashboard	Core	implemented
13	Admin can create committee types	Core	implemented
14	Admin can create price list for committees	Core	implemented
15	Admin can update committee	Core	implemented
16	Admin can delete committee	Core	implemented
17	Admin can add members	Core	implemented
18	Admin can edit members	intermediate	implemented
19	Admin can make winner of committee	Core	implemented
20	Admin can view Committee Members Record.	intermediate	implemented
21	Admin can view members payment status	Core	implemented

22	Admin can logout from system	core	implemented
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1.2. Selected Functional Requirements

Following is the list of the requirements selected for the current iteration

Table 1. 2 Selected Functional Requirements

S. No.	Selected Functional Requirement	Type	Status
1	User can Register into the system	Core	Implemented
2	User can logged into the system	Core	Implemented
3	User can Update his/her Profile	Core	Implemented
4	User can view dashboard	Core	Implemented
5	User can verify his/her profile	Core	Implemented
6	User can see committee types	Core	Implemented
7	User can join committee	Core	Implemented
8	User can make payment	Core	Implemented
9	User can check his status	Core	Implemented
10	User can logout from the system	Core	Implemented

1.3. Project Work Break Down

In this project there are two modules like user and Admin modules. As all these modules can't be developed all together, so we plan to develop first module in phase first and then move toward other. First, Admin module is already implemented in first phase and now we will move towards user module.

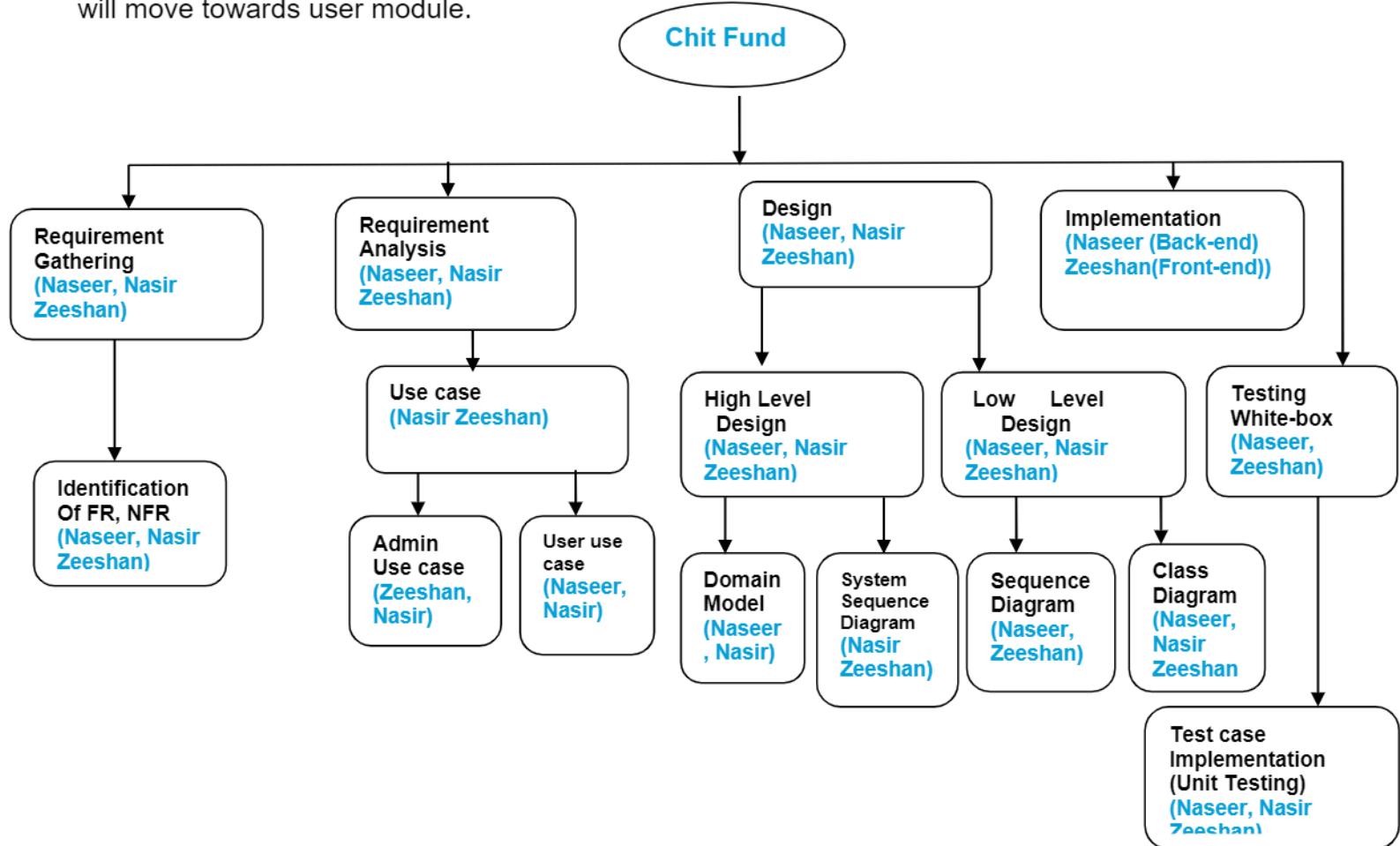


Figure 1. 1 Project Work BreakDown

1.4. Project Time Line

Requirement engineering phase will be started from 10/03/21 and will complete on 31/12/21. When some of the requirements of the given module will be cleared, we will move towards design phase and after design they will be implemented, tested and deployed. In the same way every module will be developed.

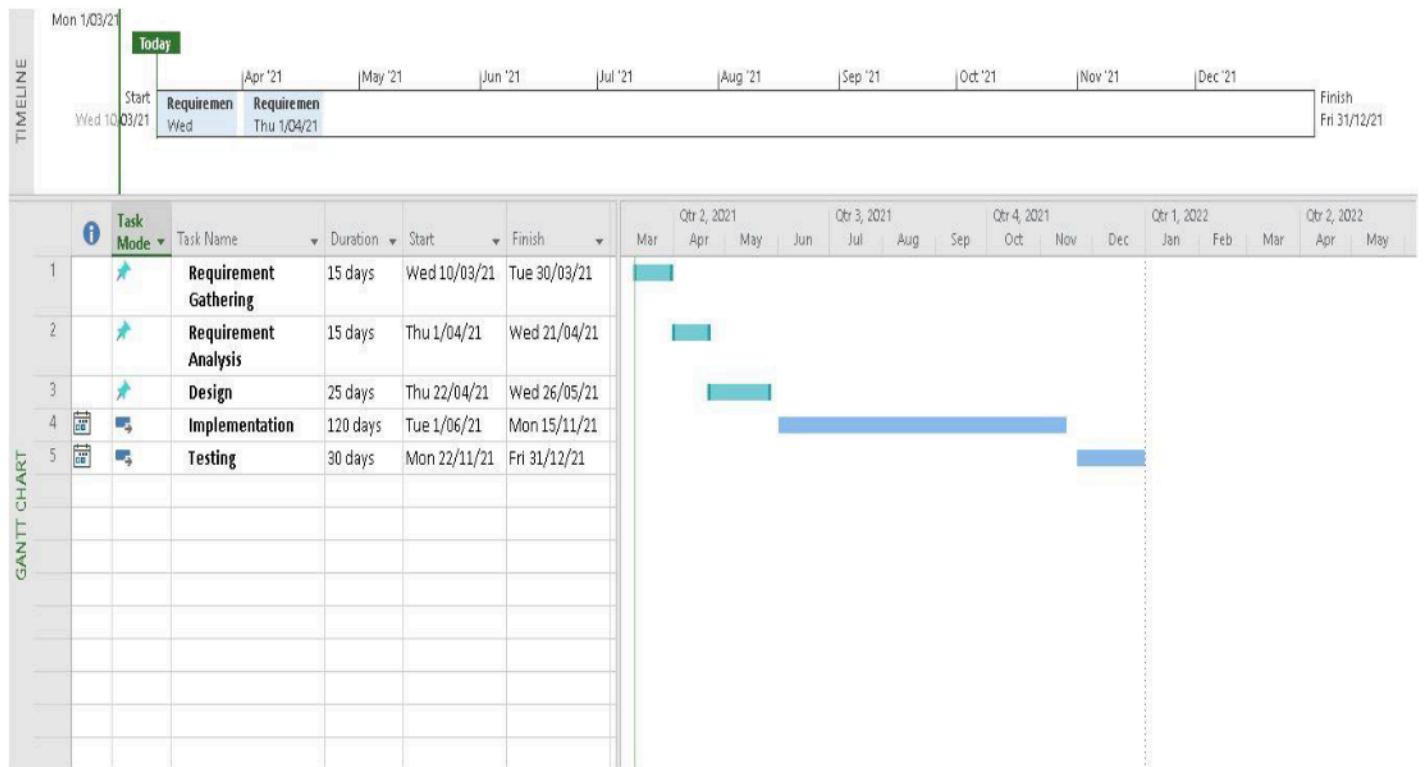


Figure 1. 2 Project Timeline

Chapter 2

Requirement Specification and Analysis

2.1. System Use Case Modeling

In this use case diagram admin is interacting with system. Admin interaction is performing actions like, admin can login to the system after login admin can view dashboard and at dashboard admin can view committee members, number of committees and winners. Admin can also manage members, delete member profile, edit member profile detail and admin can make committee winner among the members. Admin can also manage committee, delete committee, and create new committee. Admin can also manage transactions like he can see the payment status of the committee members who have paid the installment. Admin can logout from the system.

This use case diagram will depict how admin role is working in our system.

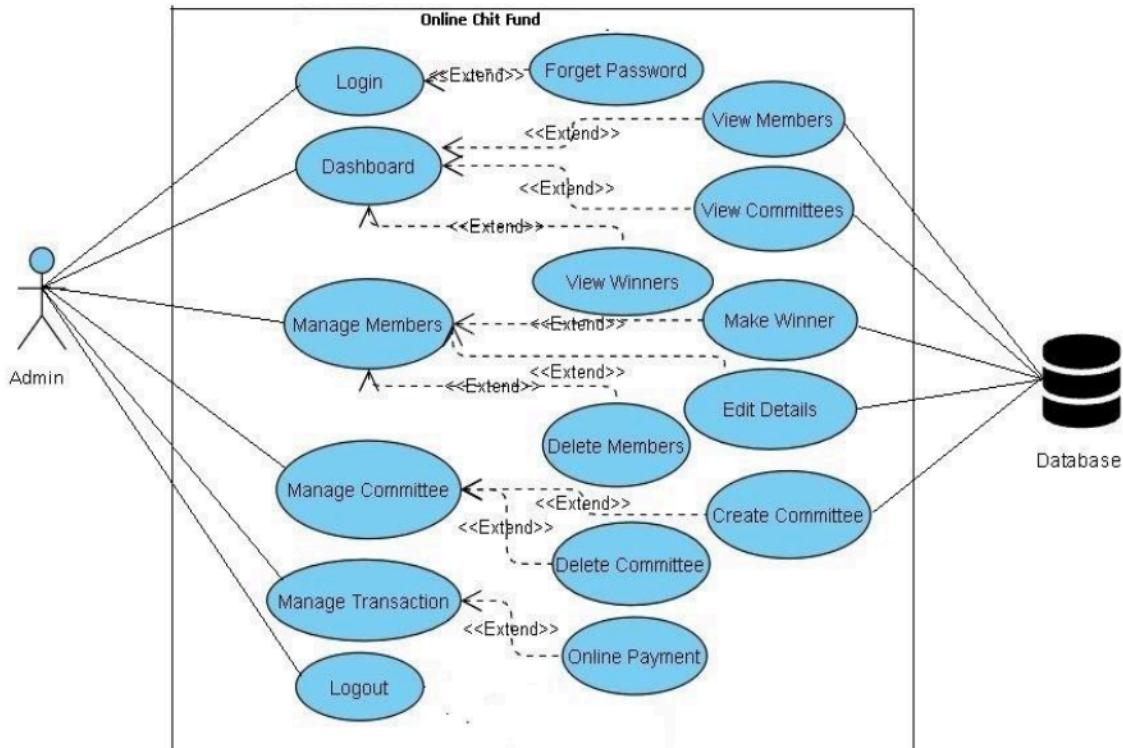


Figure 1. 3 Admin Use Case Diagram

Admin Use case Description

As shows in the picture above Fig 1.3 we have a use case diagram of Admin module and he is performing an action like he can login into the system, view dashboard and at dashboard he can view members, update their profiles, view committee's etc. Other than that he can Add new members and manage their details like update member, delete member and make winner from one of them. Admin can view transactions (online payments done by the users) and admin can logout from the system at the same time he may change his password if he wants to, otherwise simply logout.

Use Case Diagram of User Module

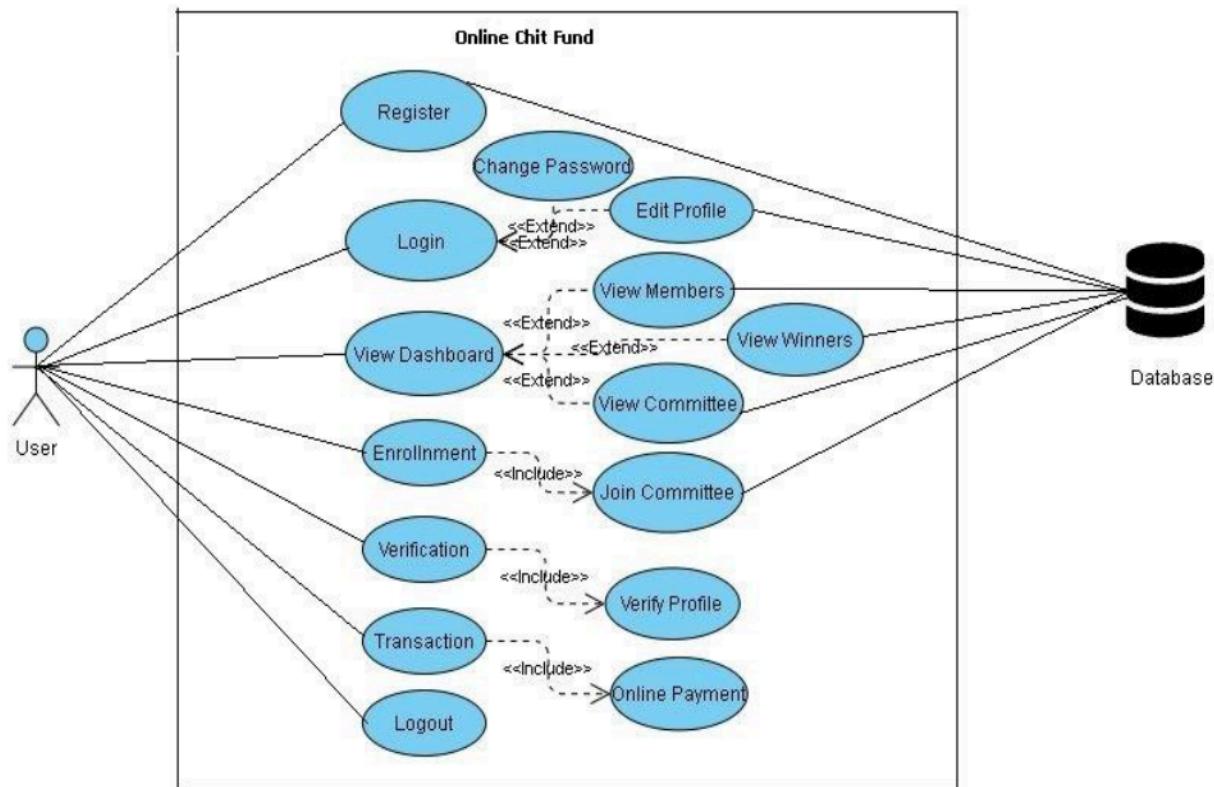


Figure 1. 4 User Use Case Diagram

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User use case Description

In use case diagram of User as shown in Figure 1.4, he is performing some actions like he can register into the system; he can login into the system. he can view dashboard and in dashboard he can perform some more actions like he can update his/her profile, he can view other registered members and view multiple committee sections. He can enroll in committee, for this action he must have login into the system. User can make payment same in the case he must have login into the system before making payment. At the end user can logout from the system he may change his/her password if he wants to; otherwise he may simply logout from the system.

2.2. Usecases Description for User

2.2.1. User Login

Table 1. 3 User Login use case

Use Case ID:	1				
Use Case Name:	User Login				
Created By:	Naseer	Last Updated By:	Naseer		
Date Created:	15/04/21	Last Revision Date:	5/11/21		
Actors:	User				
Description:	User login into the system and perform operations.				
Trigger:	Press "Login" button				
Preconditions:	User must be registered in the system.				
Post conditions:	User successfully login into the system and system display the dashboard to the user.				
Normal Flow:	Actor	System			
	1. User opens the login page.	2. System displays the login page.			
	3. User enters valid username and password in the text field and press on the login button.	4. Systems verify the username and password and load the dashboard to the User.			
Alternative Flows:	3a Verification of username and password fails. System displays wrong username or password message to User.				
Exceptions:	User cancel the login page.				

Extensions:	Login to the system: Extend Forget Password
--------------------	---

2.2.2. User Forget Password

Table 1. 4 User Forget Password

Use Case ID:	2		
Use Case Name:	User Forget password		
Created By:	Naseer	Last Updated By:	Naseer
Date Created:	15/04/21	Last Revision Date:	05/11/21
Actors:	User		
Description:	User forgets password and is not able to login.		
Trigger:	Press "Change Password" button		
Preconditions:	User must be registered into the system.		
Post conditions:	User successfully changes password.		
Normal Flow:	Actor	System	
	1. User opens the login page.	2. System displays the login page.	
	3. User enters username and password in the text field and press on the login button.	4. Systems verify the username and password but displays that details are invalid. System ask user to forget password.	
	5. User clicks on forget password button.	6. System asks enter old password of that user.	
	6. User enters his/her old password.	8. System verifies his old password and change with new.	
	9. User enters new	10. System successfully changes password	

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	password.	of that user.
Alternative Flows:	9a. user enters invalid password.	
Exceptions:	User cancel the forget password page.	

2.2.3. User Dashboard

Table 1. 5 User Dashboard

Use Case ID:	3								
Use Case Name:	User Dashboard								
Created By:	Naseer	Last Updated By:	Naseer						
Date Created:	15/04/21	Last Revision Date:	05/11/21						
Actors:	User								
Description:	User views the committee members, winner and number of committees.								
Trigger:	Press “Dashboard icon” button								
Preconditions:	User must be logged into the system								
Post conditions:	Users successfully view the dashboard.								
Normal Flow:	<table border="1"> <thead> <tr> <th>Actor</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>1. User login to the system.</td> <td>2. System displays the Dashboard.</td> </tr> <tr> <td>3. user clicks on the “Dashboard icon” button</td> <td>4. System successfully displays the dashboard with details.</td> </tr> </tbody> </table>		Actor	System	1. User login to the system.	2. System displays the Dashboard.	3. user clicks on the “Dashboard icon” button	4. System successfully displays the dashboard with details.	
Actor	System								
1. User login to the system.	2. System displays the Dashboard.								
3. user clicks on the “Dashboard icon” button	4. System successfully displays the dashboard with details.								
Alternative Flows:	1a Verification of username and password fails. System displays wrong user name or password message to User.								
Exceptions:	User cancel the Dashboard page.								

2.2.4. User Edit Profile

Table 1. 6 User Edit Profile

Use Case ID:	4				
Use Case Name:	Update Profile				
Created By:	Zeeshan	Last Updated By:	Zeeshan		
Date Created:	15/04/21	Last Revision Date:	06/11/21		
Actors:	User				
Description:	User logins to the system to edit Profile.				
Trigger:	Press “Edit Profile” button.				
Preconditions:	User must login to the system.				
Post conditions:	User successfully edits his Profile.				
Normal Flow:	Actor	System			
	1. User logins to the system.	2. System shows dashboard to the user.			
	3. User clicks the Edit Profile.	4. System displays edit Profile page to user.			
Alternative Flows:	3a Verification of username and password fails.				
Exceptions:	User cancel the edit profile tab.				
Extensions:	Check status: User View his/her Profile status				

2.2.5. User Verification

Table 1. 7User Verification

Use Case ID:	5				
Use Case Name:	User Verification				
Created By:	Zeeshan	Last Updated By:	Zeeshan		
Date Created:	15/04/21	Last Revision Date:	06/11/21		
Actors:	User				
Description:	User logins to the system to verify his status				
Trigger:	Press “Verify me” button.				
Preconditions:	User must login to the system.				
Post conditions:	User successfully enters all credentials to system and get success message.				
Normal Flow:	Actor	System			
	1. User logins to the system.	2. System shows dashboard to the User.			
	3. User clicks the verify me button.	4. System displays a popup to enter his phone number.			
	5. User enters phone number and select country code.	6. System send verification link to his phone number.			
	7. User click on that link	8. System display verification process			
Alternative Flows:	3a Verification of username and password fails.				
Exceptions:	User cancel the view members tab.				

2.2.6. View Multiple Committees

Table 1. 8 Multiple Committees

Use Case ID:	6		
Use Case Name:	View Multiple committees		
Created By:	Zeeshan	Last Updated By:	Zeeshan
Date Created:	15/04/21	Last Revision Date:	06/11/21
Actors:	User		
Description:	User logins to the system to view multiple committees sections.		
Trigger:	Press “view Committees” button.		
Preconditions:	User must login to the system.		
Post conditions:	User successfully View committees sections.		
Normal Flow:	Actor	System	
	1. User logins to the system.	2. System shows dashboard to the User.	
	3. User clicks the View Committees.	4. System displays different committees sections to User	
Alternative Flows:	7a. User does not view Committees sections.		
Exceptions:	User cancels the View committees icon button.		

2.2.7. User Enroll in Committees

Table 1. 9 Enroll in Committees

Use Case ID:	7		
Use Case Name:	Enroll in committees		
Created By:	Naseer	Last Updated By:	Naseer
Date Created:	15/04/21	Last Revision Date:	08/11/21
Actors:	User		
Description:	User logins to the system to Join committee.		
Trigger:	Press "Join committee" button.		
Preconditions:	User must login to the system.		
Post conditions:	User successfully Registered.		
Normal Flow:	Actor	System	
	1. User logins to the system.	2. System shows dashboard to the User.	
	3. User clicks the join committee button.	4. System displays the committee sections which user wants to join.	
	5. User clicks the "Join Button"	6. System displays the Verification form to verify User.	
	7. User Enter all verification details that system want.	8. System display page in which user send payment to system and enter trx id to that page.	
	9. User Enter Correct TRX Id	10. System Display a verify button for live Verification if trx ID is correct.	
	11. User verify himself by	12. After successful	21

	clicking on "Verify me" button	verification system send an Email to the User. Your Profile is under Review within 24hrs your profile has been activated.
Alternative Flows:	7a. user exist from the system.	
Exceptions:	User cancel the join committee tab.	

2.2.8. User's Payment

Table 1. 10 User's Payments

Use Case ID:	8	
Use Case Name:	Payment	
Created By:	Raja Nasir Javed	Last Updated By: Raja Nasir Javed
Date Created:	15/04/21	Last Revision Date: 08/11/21
Actors:	User	
Description:	User logins to the system and add payment	
Trigger:	Press "Pay Committee" button.	
Preconditions:	User must verify in the system.	
Post conditions:	User enters correct trx id to the system.	
Normal Flow:	Actor	System
	1. User logins to the system.	2. System shows dashboard to the User.
	3. User clicks the Paycommittee button.	4. System displays the QR Code for payment via Easypasia Merchant Account
	5. User scan the QR to pay committee	6. System display option to enter trx ID

	7. User enter TRX ID of sending payment	8. System successfully save the data and update his profile within 24hours.
Alternative Flows:	1a Verification of username and password fails. System displays wrong user name or password message to user.	
Exceptions:	User cancel the payment tab.	

2.2.9. User Logout

Table 1. 11 User Logout

Use Case ID:	9											
Use Case Name:	User Logout											
Created By:	Nasir Javed	Last Updated By: Nasir javed										
Date Created:	15/04/21	Last Revision Date: 08/11/21										
Actors:	User											
Description:	User logout from the system											
Trigger:	Press “logout” button											
Preconditions:	User must be logged into the system											
Post conditions:	User successfully logout from the system.											
Normal Flow:	<table border="1"> <thead> <tr> <th>Actor</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>1. User login to the system.</td> <td>2. System displays the Dashboard.</td> </tr> <tr> <td>3. User performs the operation according to his/her need.</td> <td>4. System response efficiently against the user request.</td> </tr> <tr> <td>5. User press on the profile icon.</td> <td>6. System displays the logout.</td> </tr> <tr> <td>7. User press the logout option.</td> <td>8. System successfully ends the session of user.</td> </tr> </tbody> </table>	Actor	System	1. User login to the system.	2. System displays the Dashboard.	3. User performs the operation according to his/her need.	4. System response efficiently against the user request.	5. User press on the profile icon.	6. System displays the logout.	7. User press the logout option.	8. System successfully ends the session of user.	
Actor	System											
1. User login to the system.	2. System displays the Dashboard.											
3. User performs the operation according to his/her need.	4. System response efficiently against the user request.											
5. User press on the profile icon.	6. System displays the logout.											
7. User press the logout option.	8. System successfully ends the session of user.											

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Alternative Flows:	3a. session expires due to user does not performs any action for some time
Exceptions:	User doesn't click the logout button.

2.3. System Sequence Diagrams

System sequence diagram (SSD) is a sequence diagram that shows, for a particular scenario of a use case, the events that external actors generate their order, and possible inter-system events.

2.3.1 User signup SSD

Below is the System Sequence Diagram of User Signup. User request for signup to system and system display the signup form after that user enter the required credentials and submit the form into the system, and system display the success message to user.

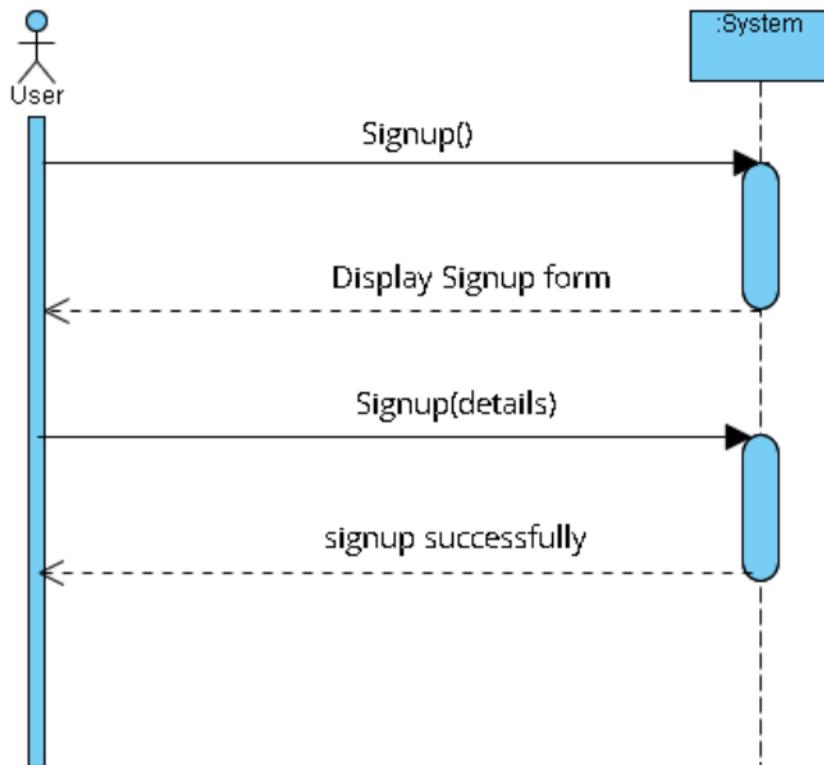


Figure 1. 5 User Signup SSD

2.3.2 User Login SSD

As shown in the figure below we have a User Login Scenario in which user is requesting to the system for login by providing his credentials and then system response login is successful.



Figure 1. 6 User Login SSD

2.3.3 User Change Password SSD

In this SSD of user change password Scenario, User is requesting for login into the system by providing credentials and system response login is success, after that user clicks on his profile icon and then system displays the logout and change password option. User will select the change password option and system will ask the user to enter the new password, User will enter his new password and then system response your password is successfully changed.

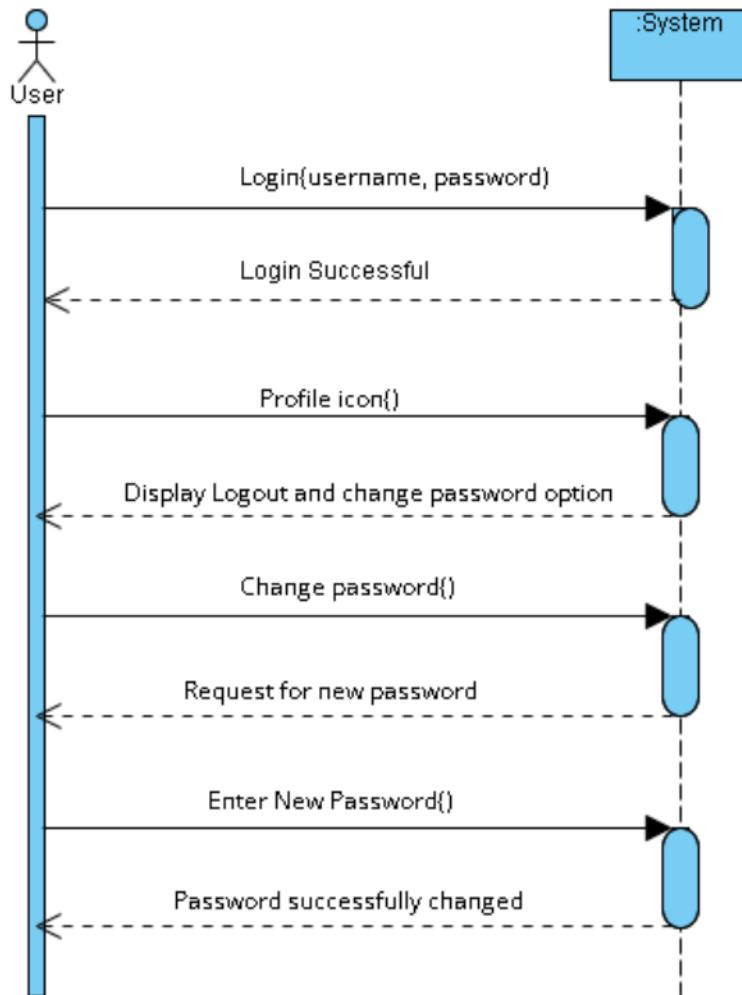


Figure 1. 7 User Change Password SSD

2.3.4 User Dashboard SSD

This is user Dashboard System Sequence Diagram which shown when user login to the system he can views details about committees, winners and members.

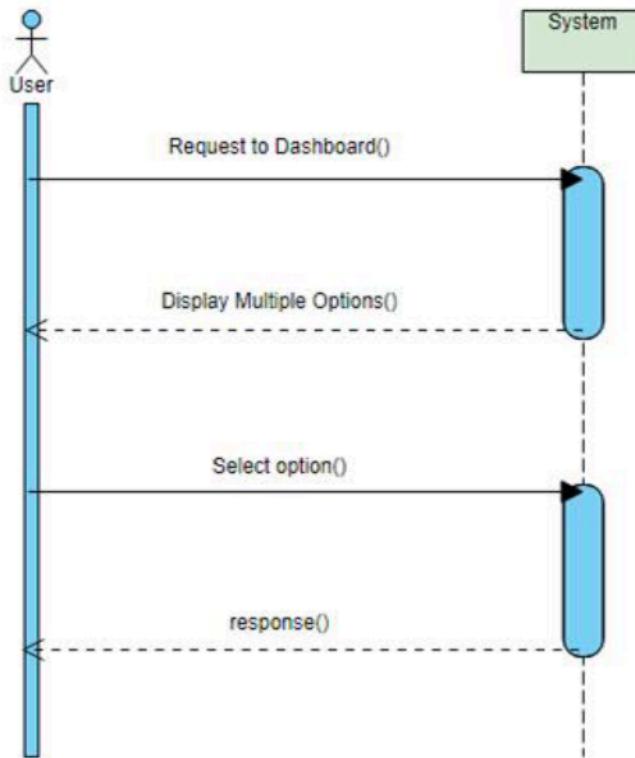


Figure 1. 8 User Dashboard SSD

2.3.5 User Edit Profile SSD

After login to the system user can edit his/her profile details. In fig[3.4] user send a login request to the system after verification successfully display a message.

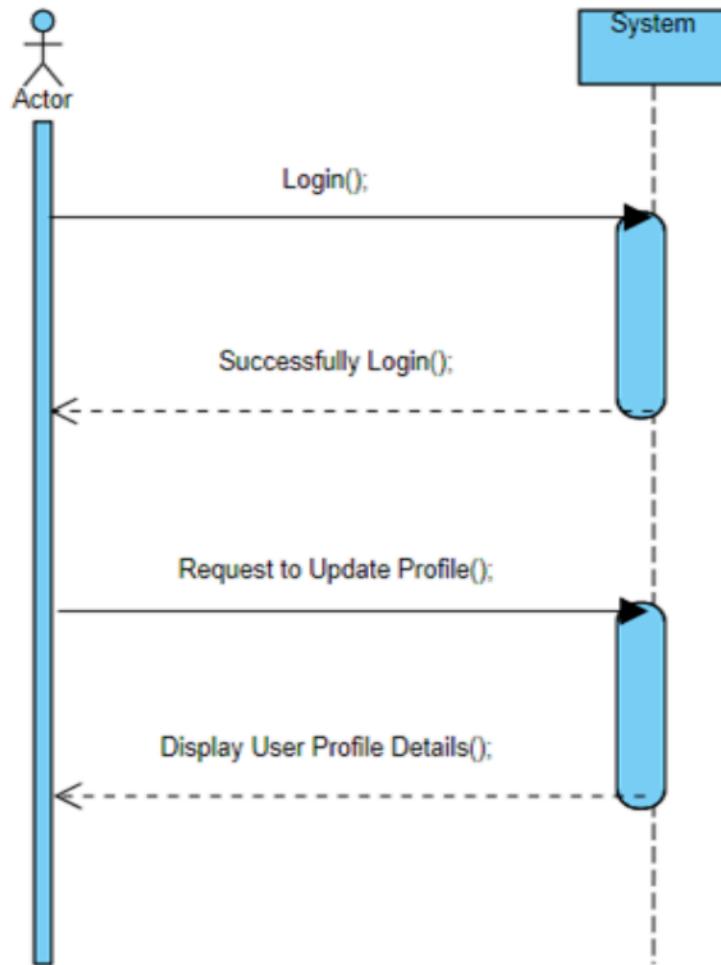


Figure 1. 9 user Edit Profile SSD

2.3.6 User Enrollment in committee SSD

In figure 3.5 user send a request to the system for enrollment in a committee. System display a message to verify his/her profile. After verification system verifies his details and then enrolls in committee.

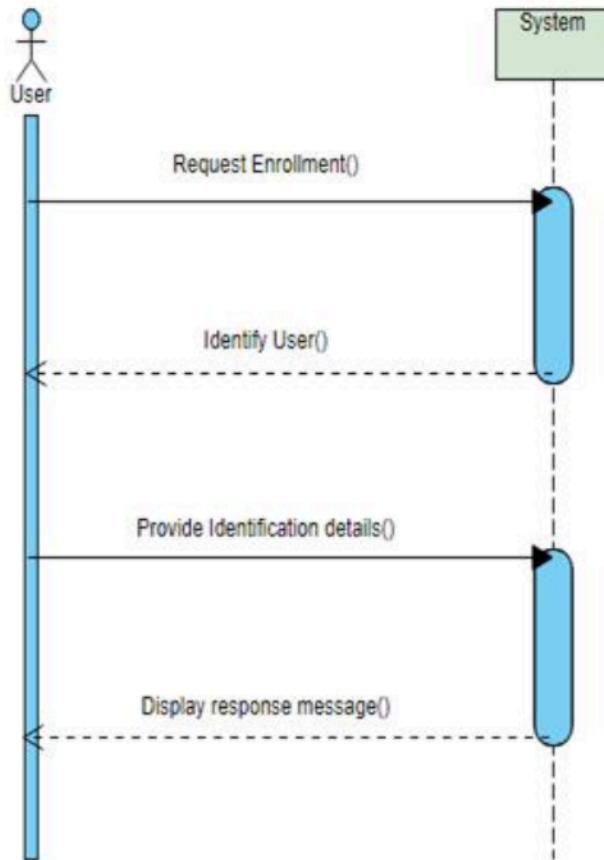


Figure 1. 10 Enrollment in Committee SSD

2.3.7 User Payment in committee SSD

This is user Payment System Sequence Diagram which shown when user login to the system he can views details about committees if he want to join committee he can do payment. In this diagram user request for payment after successful payment is done then he is added in committee.

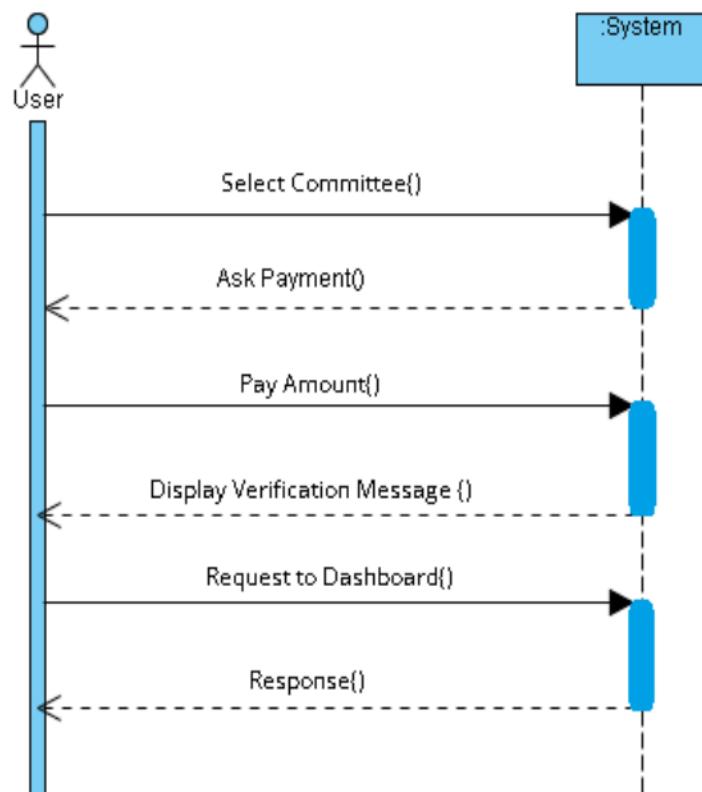


Figure 1. 11 User Payment SSD

2.3.8 User Verification SSD

When user successful login to the system. User can perform different operations he must verify his/her profile before joining committee. He sends request to system for enroll in committee but system ask him to verify his profile. After verification he may enroll in committee.

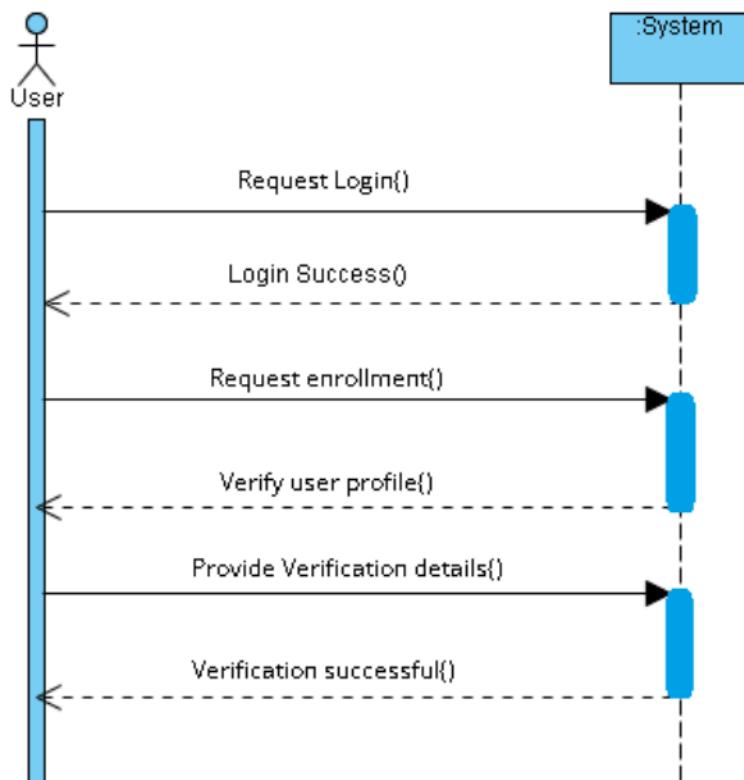


Figure 1. 12 User Verification SSD

2.3.9 User Logout SSD

When user successful login to the system. User can perform different operations either he can edit his profile or join committee and check his month of winner.

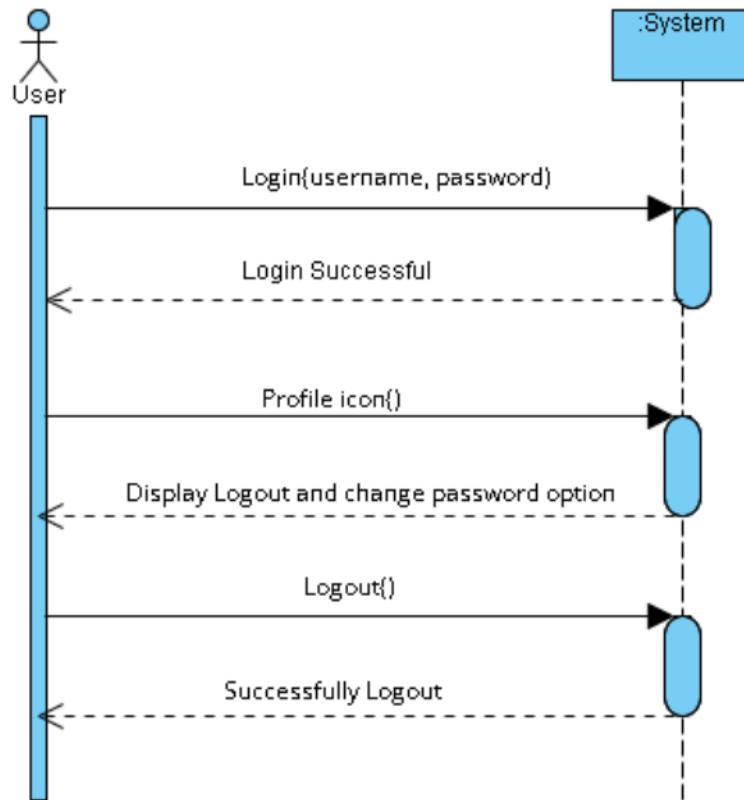


Figure 1. 13 User Logout SSD

2.4. Domain Model

Here is the Domain model of our system in which we have four classes, Admin, Users, Committee, and Payment. Admin class is having attributes, Username, Email, CellNo, Id, Age similarly in Customer class it has attributes, Name, Email, CellNo, Id, Age, Address, Cellno2 and Payment class has attribute of Id, PaymentDate, PaymentDetails and total price. In committee class it has attributes of Name,Id, Win Price, WinDate. The relation between Manager and customer is One manager manages one or many customers and one or many customer will be managed by one admin. A Manager take one or many payments, A Manager manages one or many committees. A relationship between customer and committee is, one or many customer can join one or many committees, and one or many customers can pay one or many payments.

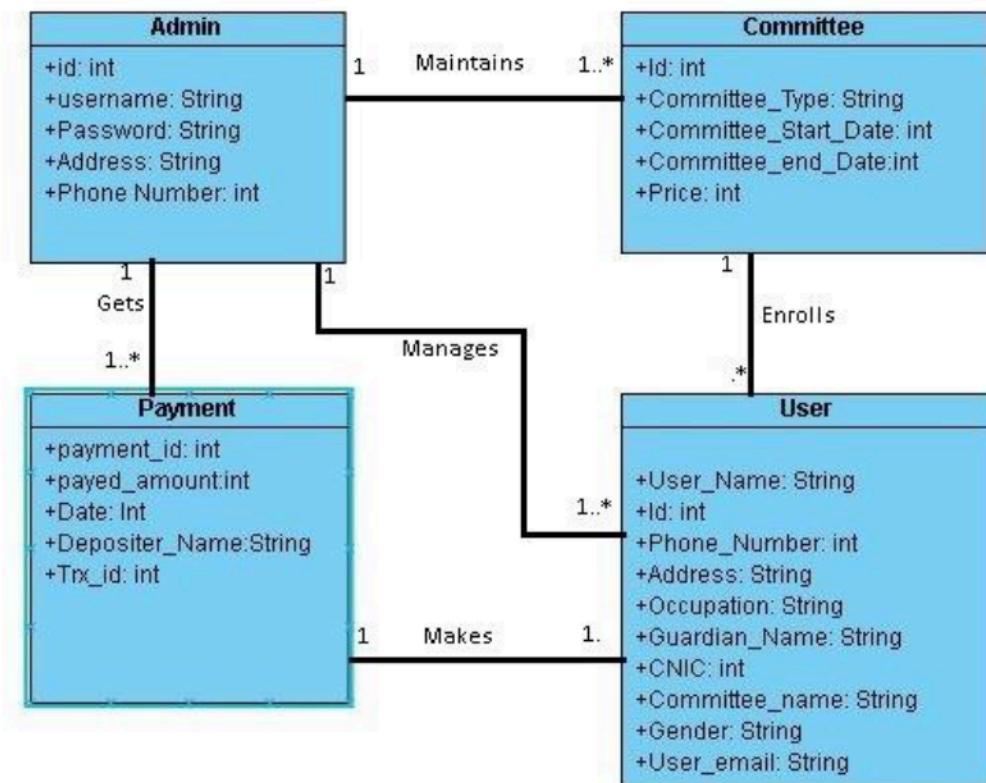


Figure 1. 14 Domain Model Diagram

Chapter 3

System Design

3.1. Layer Definition

3.1.1. Presentation Layer

Occupies the top level and displays information related to services available on a website. This tier communicates with other tiers by sending results to the browser and other tiers in the network.

3.1.2. Business Logic Layer

Application Layer also called the middle tier, logic tier, business logic or logic tier, this tier is pulled from the presentation tier. It controls application functionality by performing detailed processing.

3.1.3. Database Layer

Database layer includes database servers where information is stored and retrieved. Data in this tier is kept independent of application servers or business logic.

3.2. Software Architecture

Software architecture is described as the organization or structure of a system, where the system represents a collection of components that accomplish a specific function or set of functions. Below is the architecture diagram of the system.

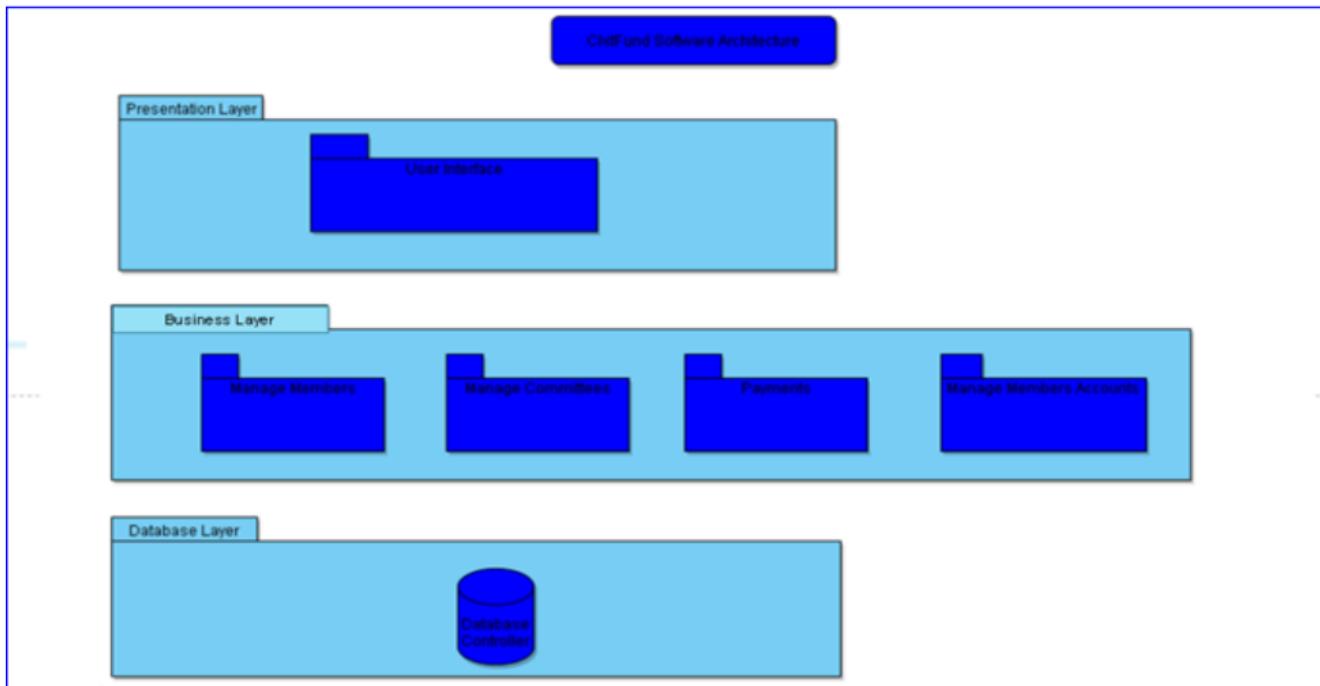


Figure 3. 1 Software Architecture

3.3. Class Diagram

Here is the class diagram of our System system in which we have four classes, Admin, Customer, Committee, Payment. Admin class is having attributes, Name, Email, CellNo, Id, Age further more he can perform some actions like Add customer/member, delete member, update member, view member details, and he can create a new committee, delete the existing one, update it, and make winner winner from the members and also handle payments. similarly in Customer class it has attributes, Name, Email, CellNo, Id, Age, Address, Cellno2 and he can perform some actions like he can view his own profile, he can enroll in committee, make payment, search himself to check if he is a winner or not, update his profile etc Payment class has attribute of Id, PaymentDate, PaymentDetails and total price. In committee class it has attributes of Name,Id, Win Price, WinDate. The relation between Admin and customer is Admin manages one or many customers and one or many customers will be managed by Admin. A Admin take one or many payments, A Admin manages one or many committees. A relationship between customer and committee is, one or many customer can join one or many committees, and One or many customers can pay one or many payments.

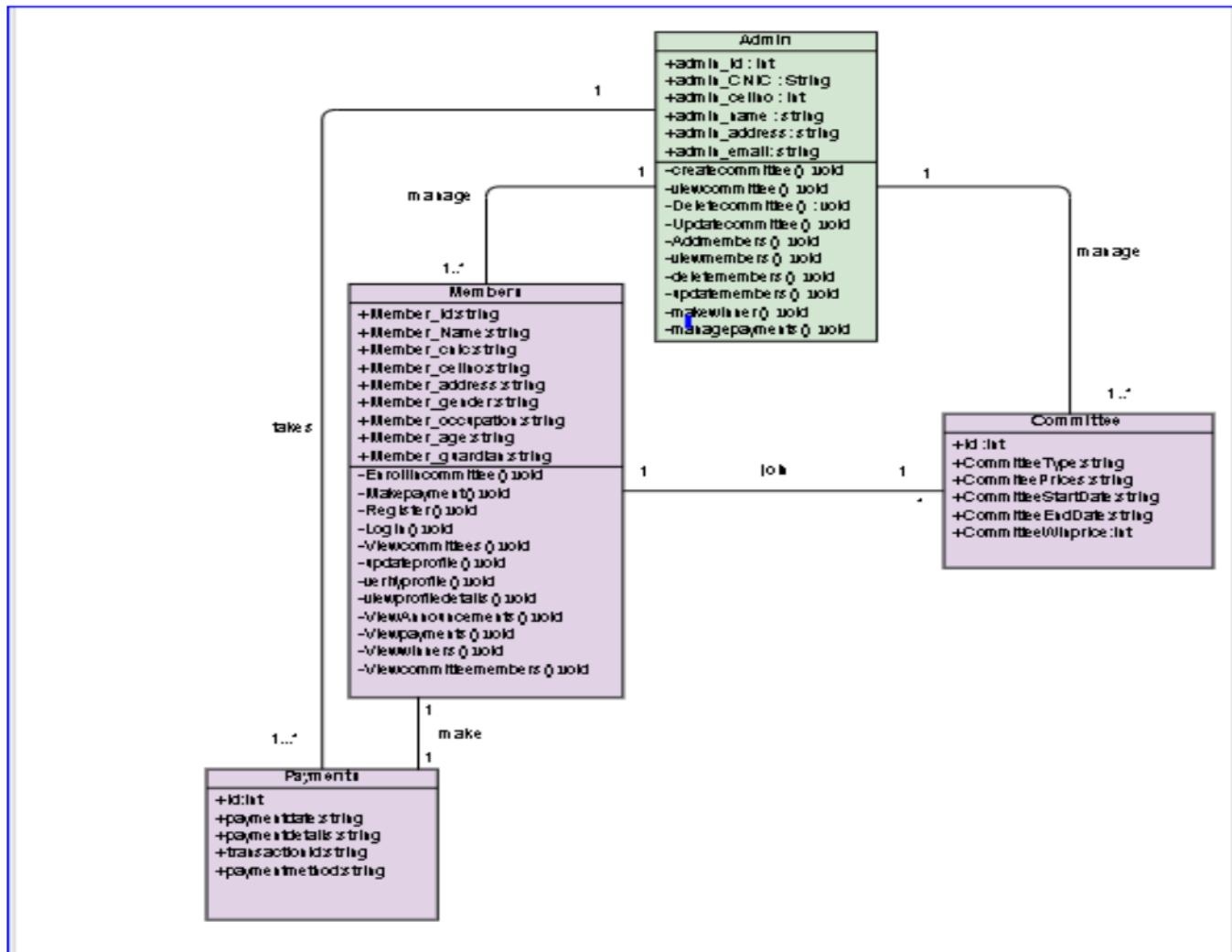


Figure 3. 2 Class Diagram

3.4. Sequence Diagram

Sequence Diagram model the flow of logic within your system in a visual manner enabling you both to document and validate your logic, and are commonly used for both analysis and design purposes.

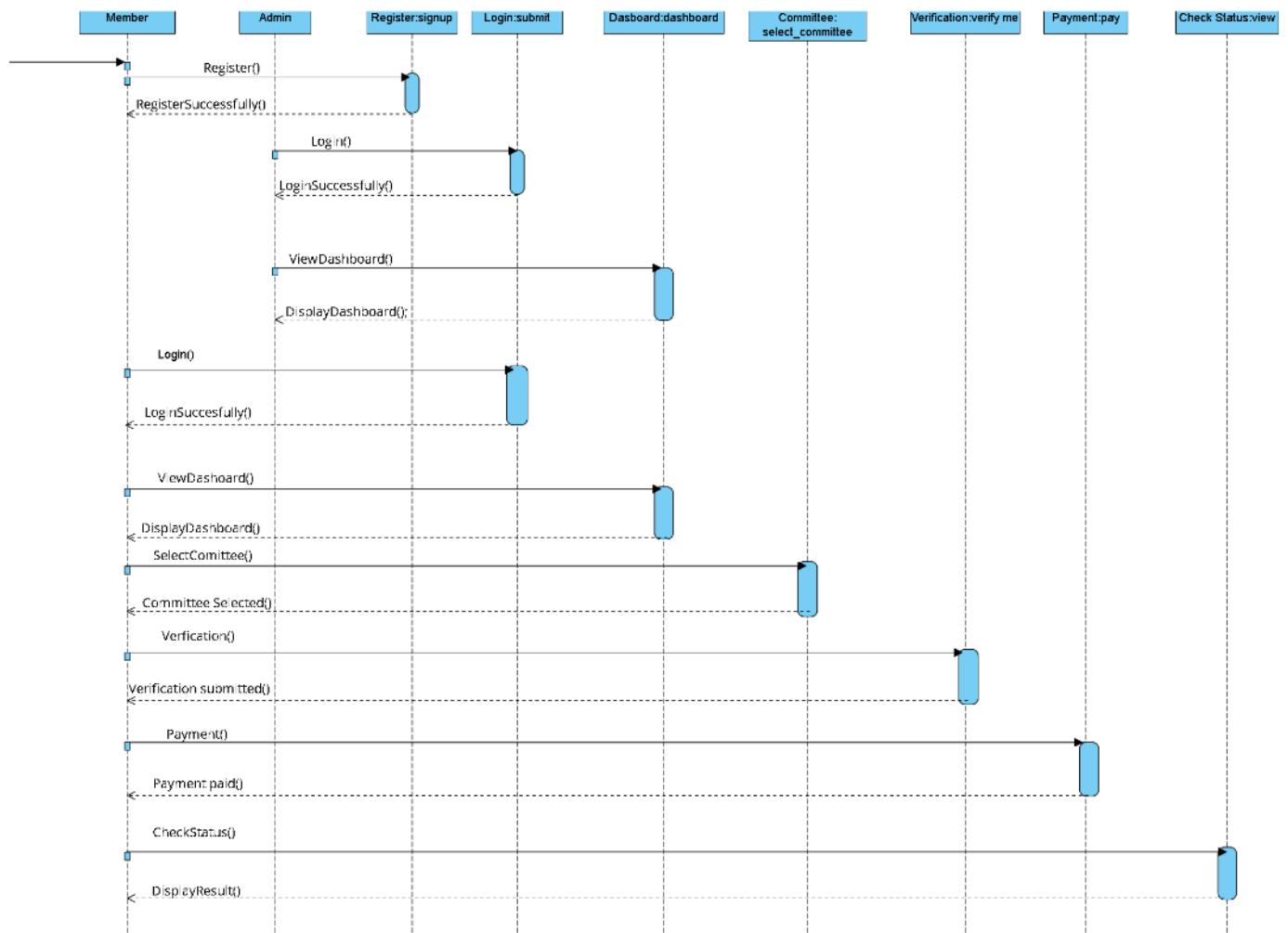


Figure 3. 3 user Sequence Diagram

3.5. Entity Relationship Diagram

Entity relationship model diagram (ERD) is a conceptual representation of the data in a software system. During detail design this model is mapped in to the physical database model. It is a graphical representation that depicts relationships among people, objects and places. Below diagram show our chit fund conceptual representation of data in our system.

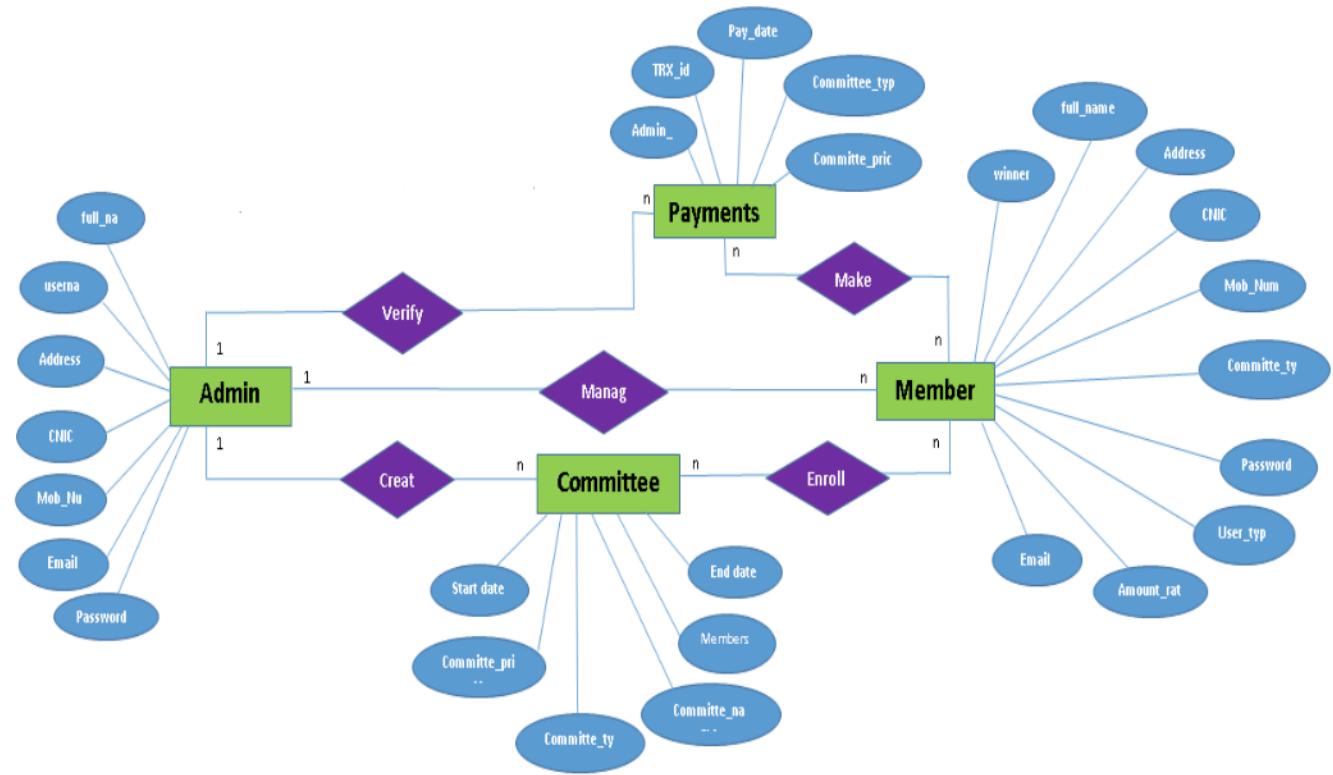


Figure 3. 4 Entity Relationship Diagram

3.6. Database Schema

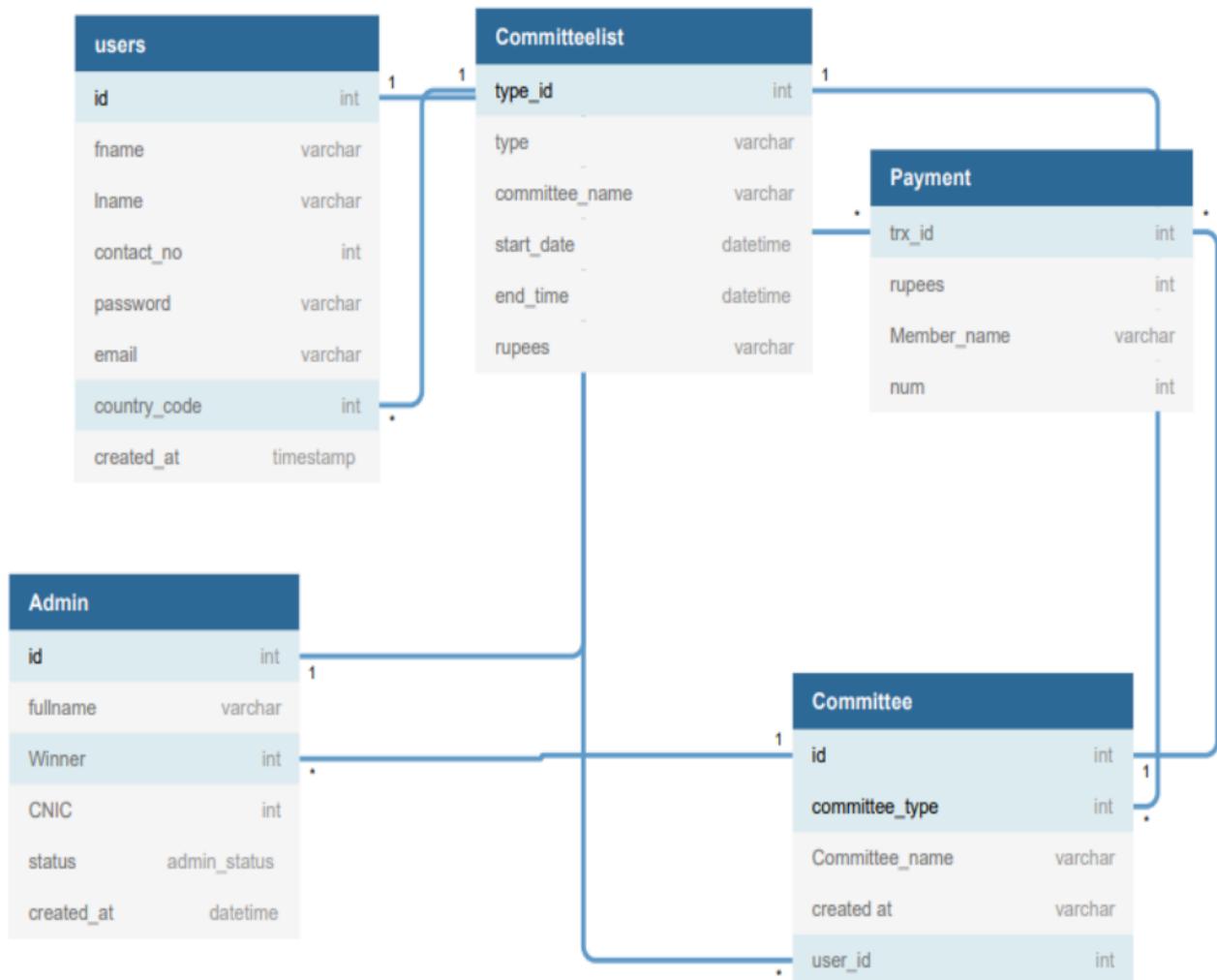
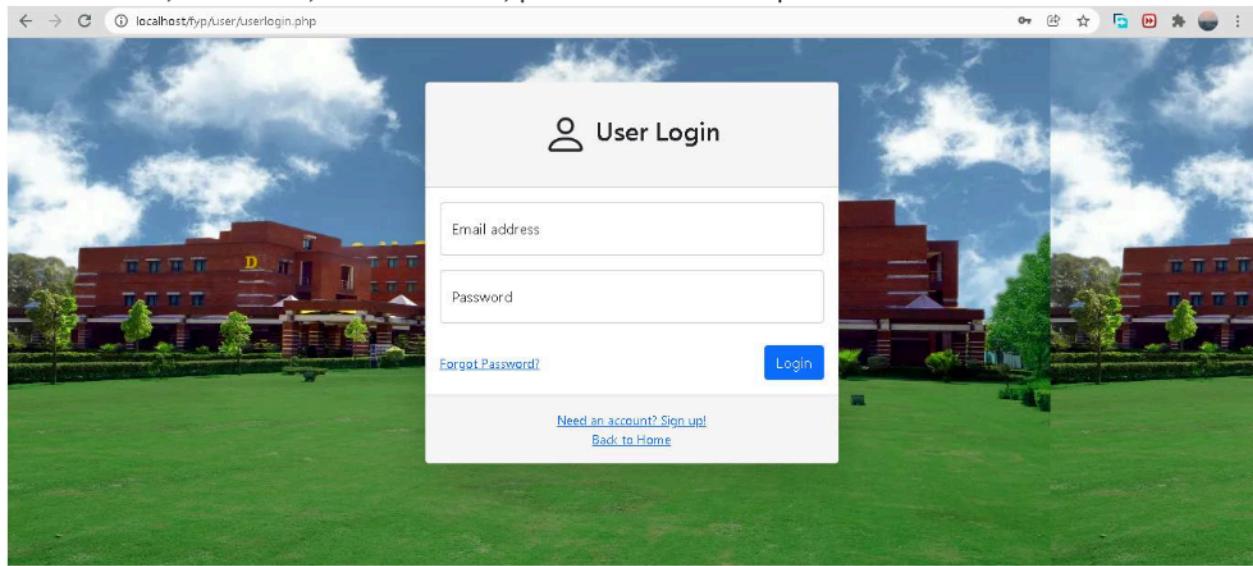


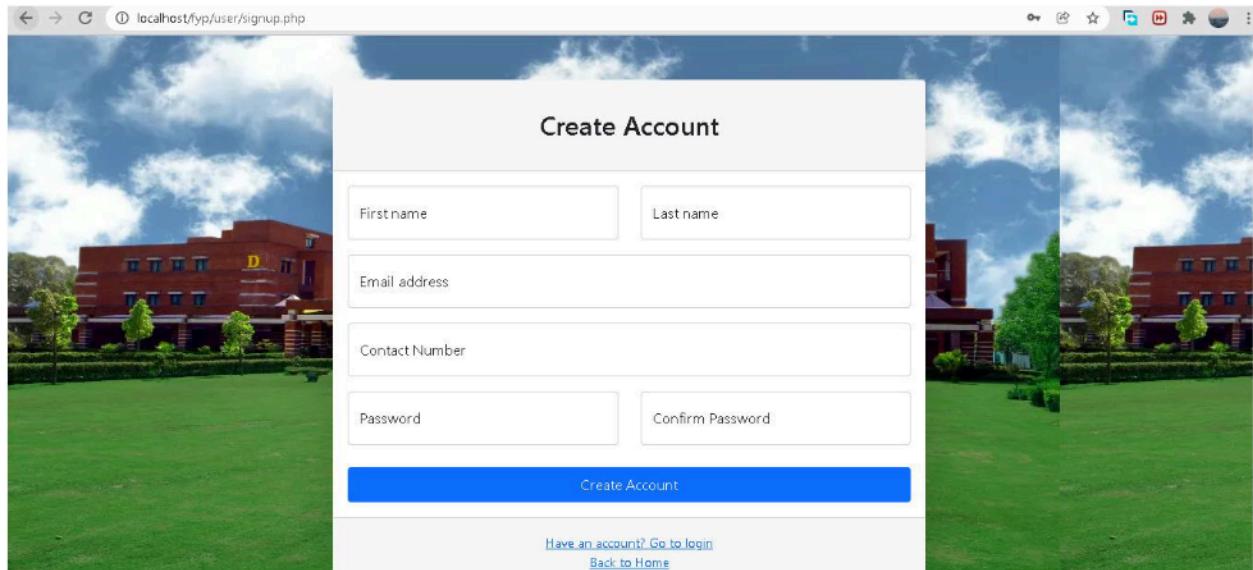
Figure 3. 5 Database Schema

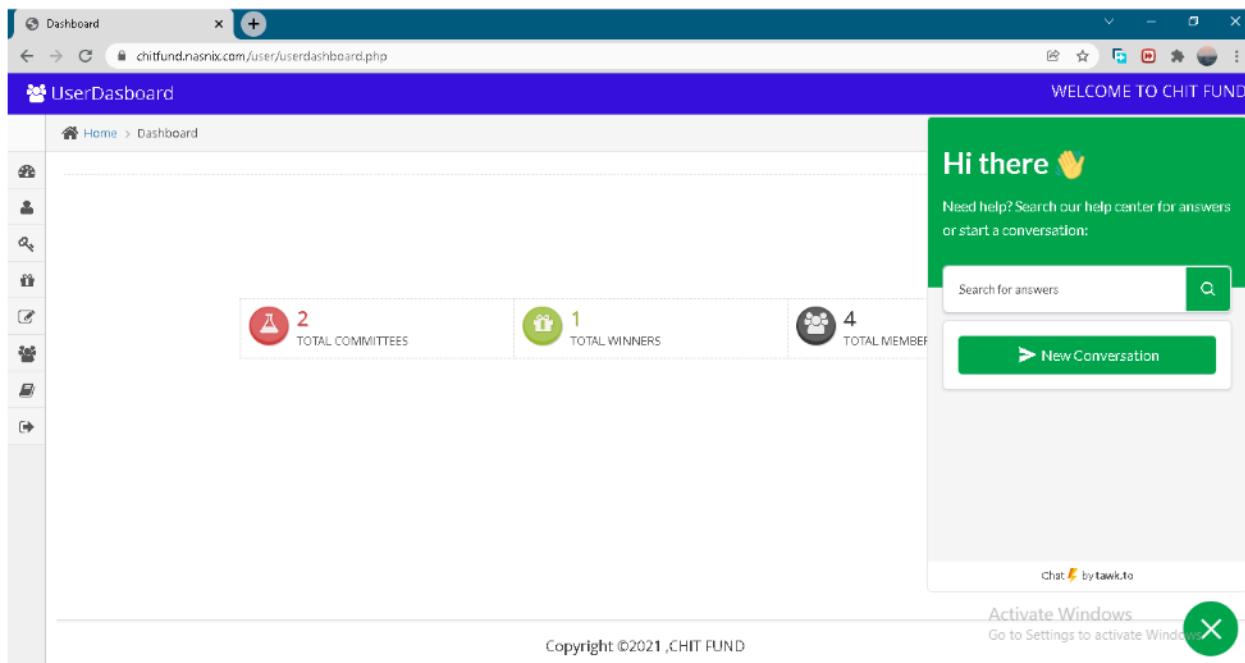
3.7. User Interface Design

For first time user has to create their account, so this is the signup page in which user first enter their details First name, last name, email address, phone number and password.

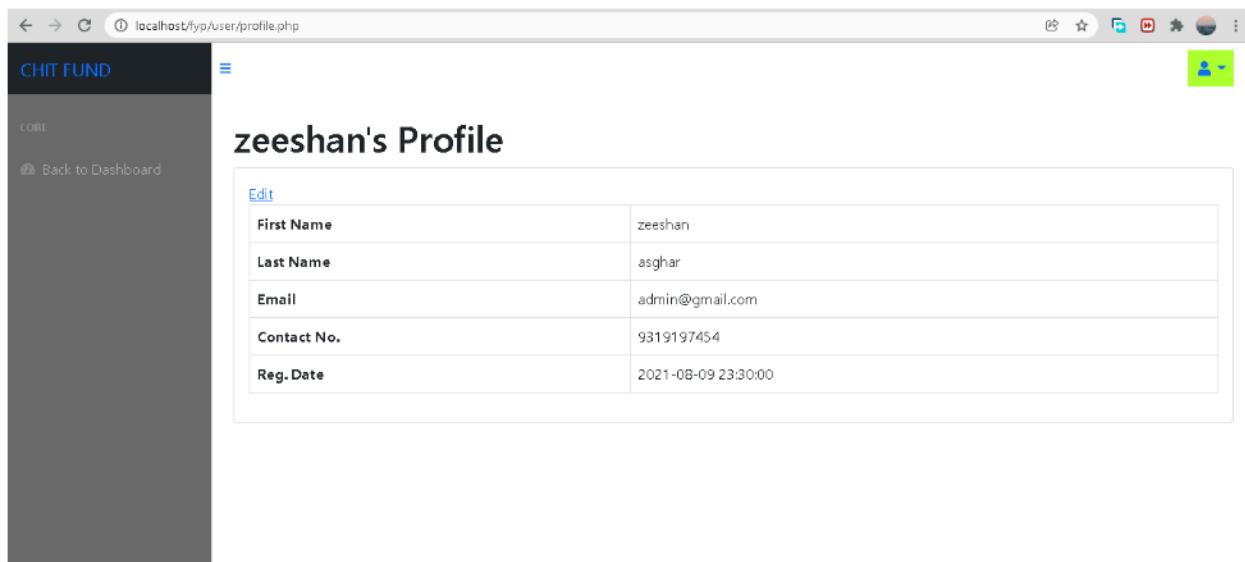


After Successfully sign up, user have to enter his email and password In order in Login.





After login to the system user can view his/her dashboard. In dashboard user can view total committee, total winners and total members including in committee. So, after viewing all details user can edit his profile if he want so that he/she just click on edit button and update his/her profile.



When user click on edit button he/she can view profile details in which first name, last name, email and phone number after update successfully he can goes to dashboard just click on left top button back to dashboard.

localhost/fyp/user/change-password.php

CHIT FUND

CORE

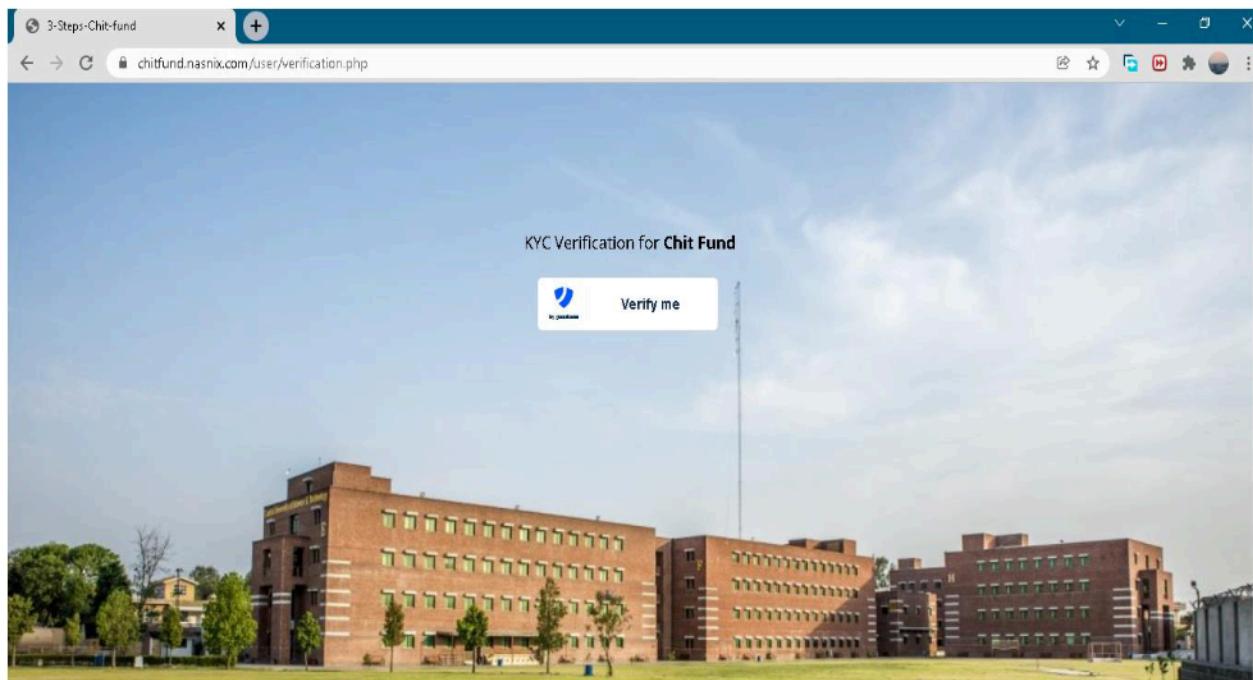
[Back to Dashboard](#)

Change Password

Current Password	<input type="text"/>
New Password	<input type="text"/>
Confirm Password	<input type="text"/>
<input type="button" value="Change"/>	

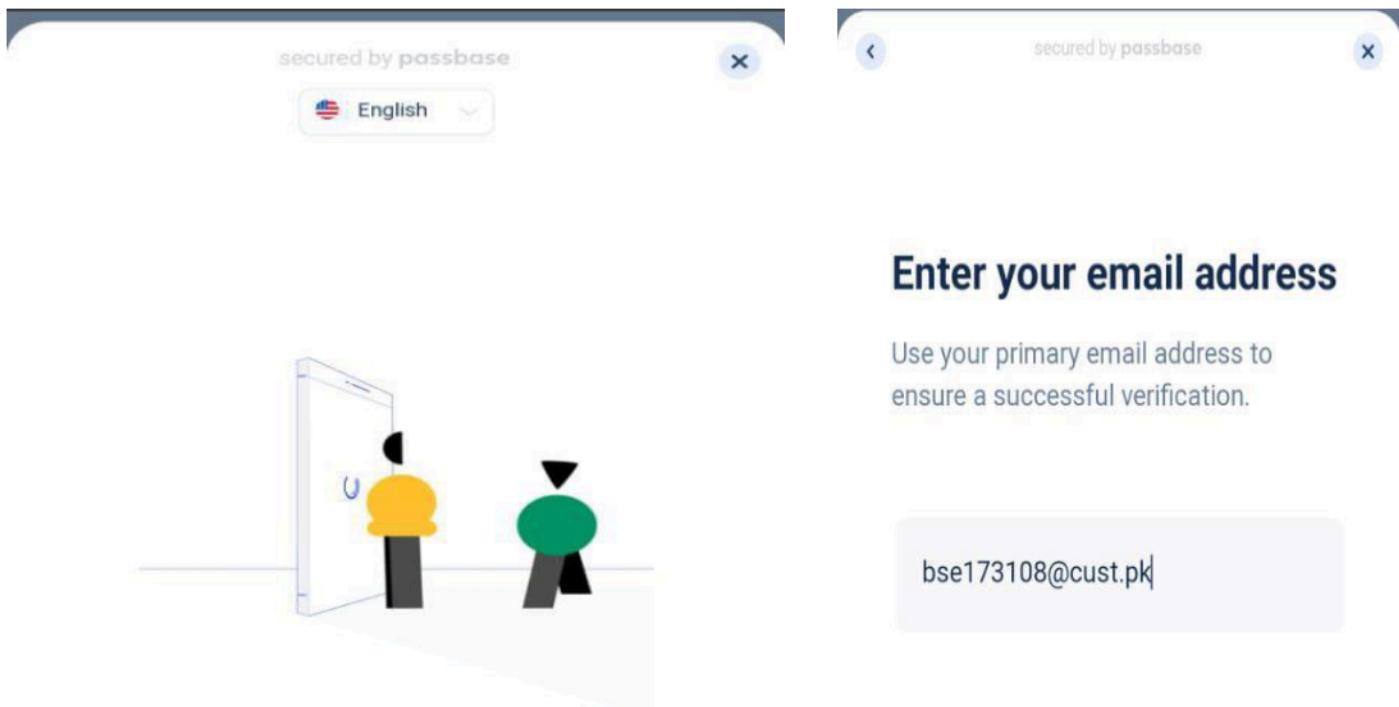
If user wants to change his/her password he/she click on change password button and system displays a page in which he enter and his current password and then enter new password after that click on change password.

Step 1



After login to the system user can verify his profile after verification in the system successfully user enrolled in committee and then he can view his/her status.

The image displays two side-by-side screenshots of verification pages. The left screenshot is from [chitfund.nasrix.com](https://chitfund.nasrix.com/user/verification.php), showing a "Choose your method to continue on mobile" screen with tabs for QR Code, Email, and SMS (which is selected). It asks for a phone number and shows a field with "+92 318 1982091". The right screenshot is from [verify.passbase.com](https://verify.passbase.com/online-59700f57?p=eyJwcmVmZWxsX2F0dHJpYnV0ZXMIOnsicGhvbmUiOiIrcTlgMzE4IDE5ODlw%0AOTEiX0%3D%0A&tak...), showing a "Verify your identity now" screen with a Passbase logo and a "Verify" button. Both screens include a "Continue" button at the bottom.



Chit Fund verification

We'll guide you through a simple process to verify your identity.

Start

Continue

localhost/fyp/user/userverification.php

Online Chit Fund

Provide Correct Verification Details
Personal information

Full Name
Enter Full Name

Enter Address
House no, st no, City

Enter CNIC Number
51101-0101010-1

Next →

Activate Windows
Go to Settings to activate Windows.

Step 2

localhost/fyp/user/userverification.php

Online Chit Fund

Phone Number
+923425465533

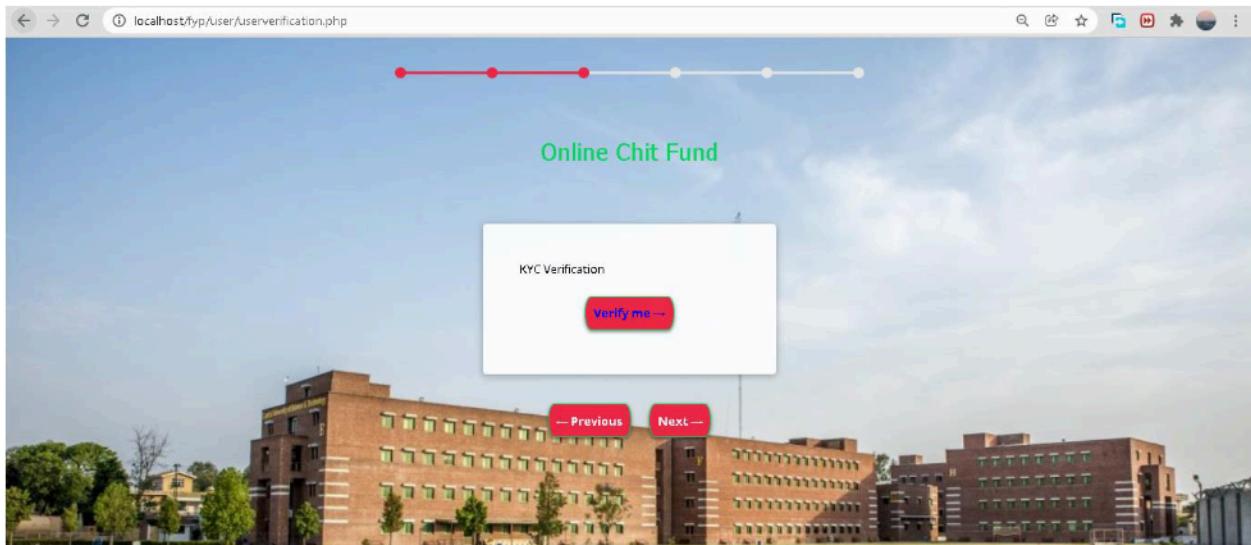
Joining Date
dd/mm/yyyy

Choose an Chit Fund Committee
Five Months Duration (\$5000/month)

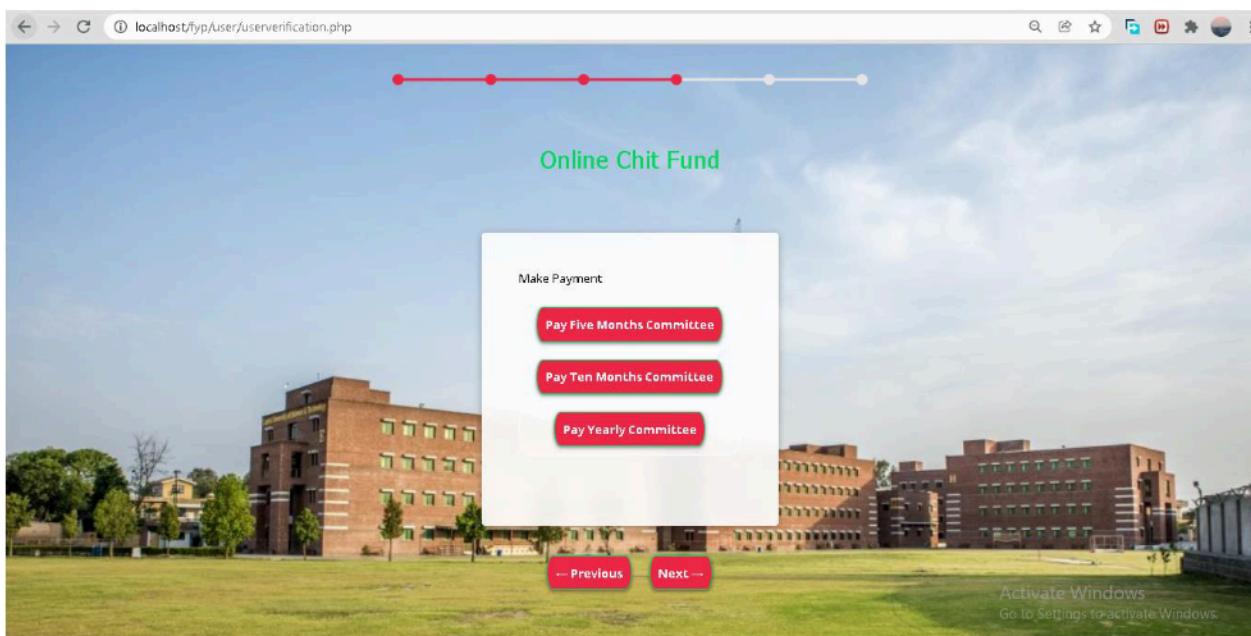
← Previous Next →

Activate Windows
Go to Settings to activate Windows.

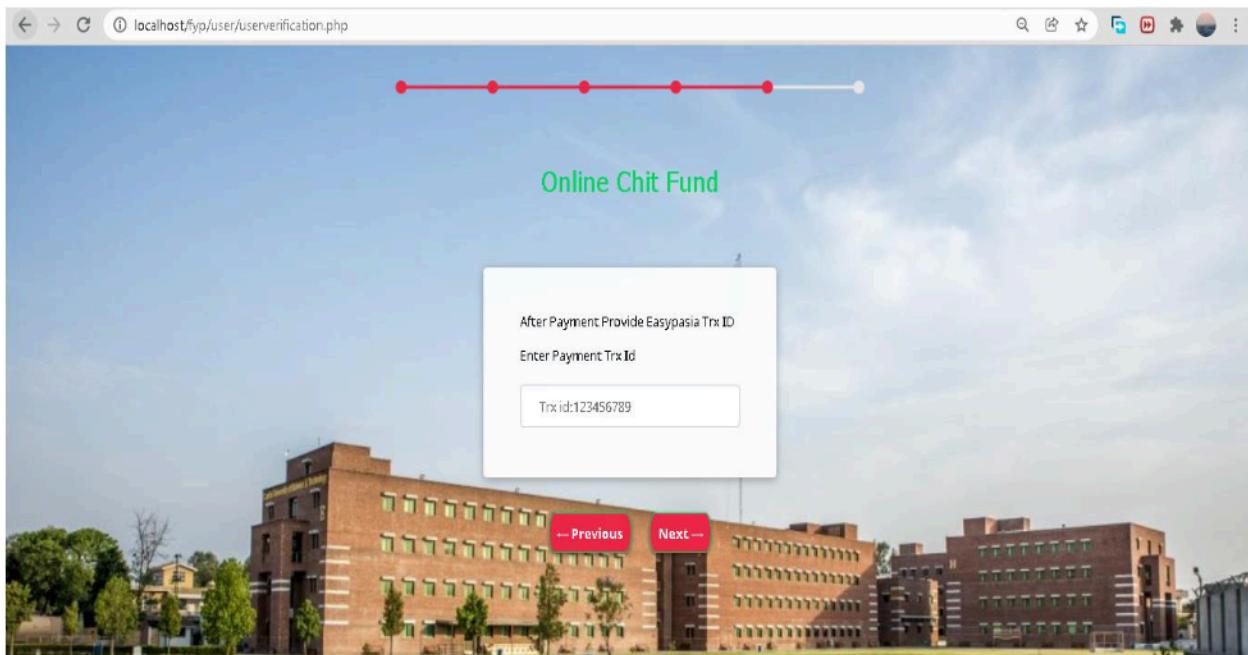
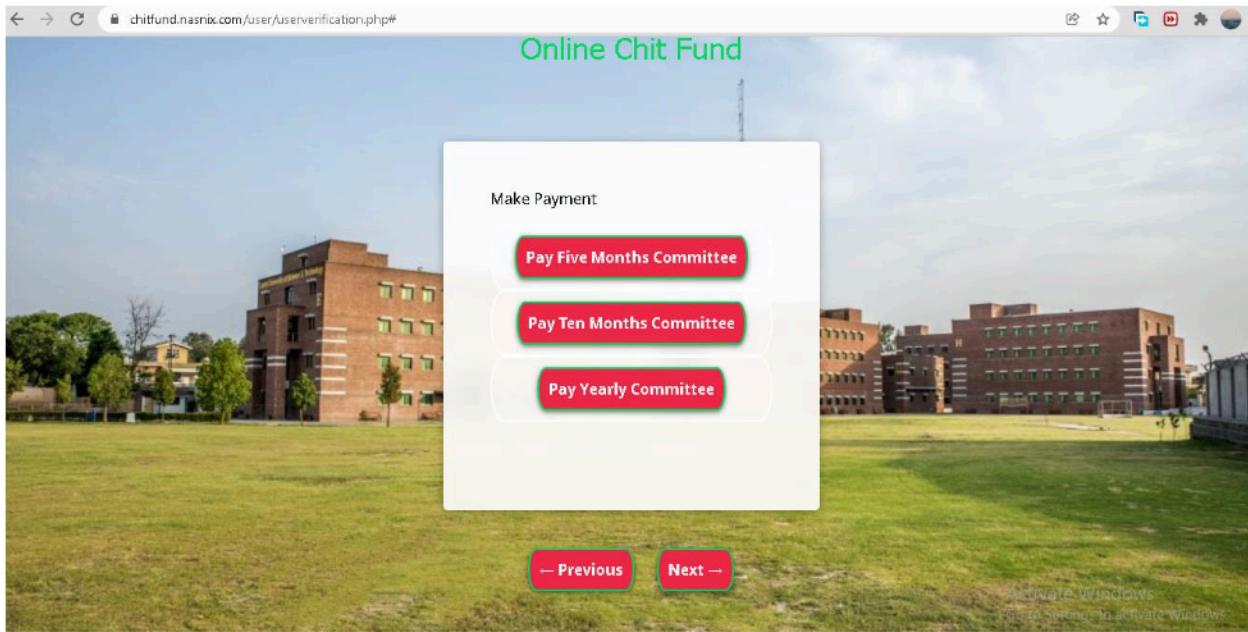
Step 3



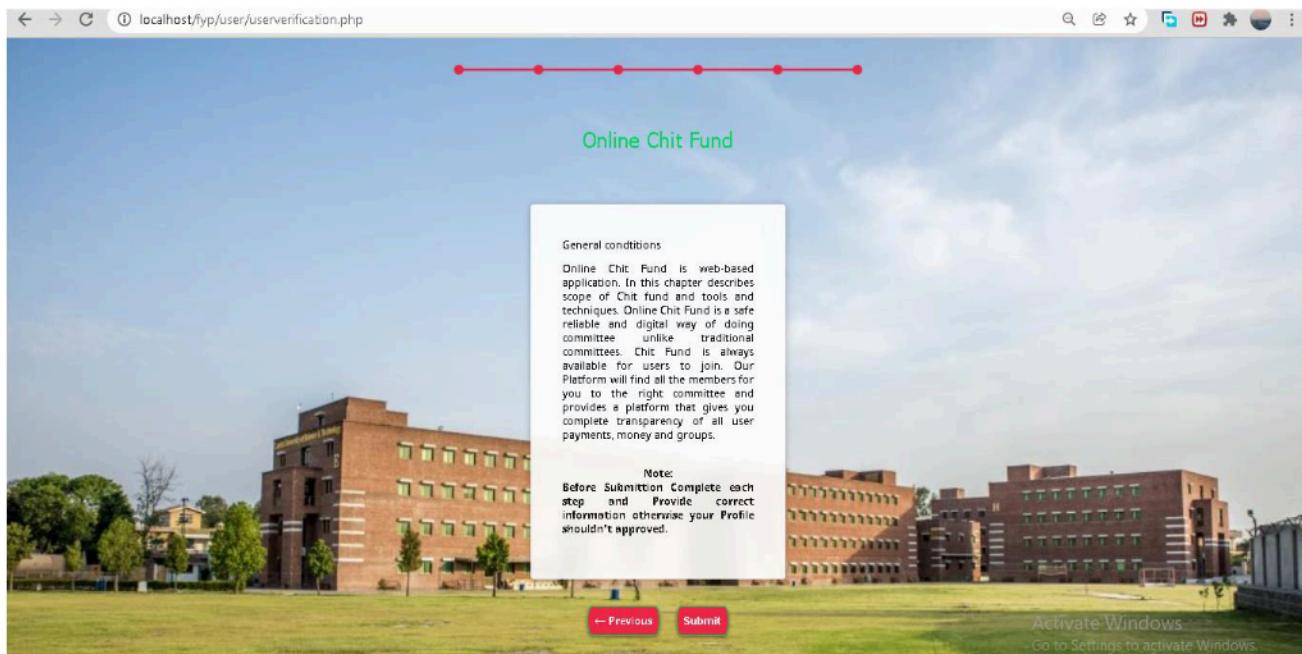
Step 4



Step 5



Step 6



Check Member Status

Check Your Status by CNIC

Search here

Record will show here!

Member Name	Committee Type	Committee No	Committee Ratio	Cnic No	Address	Mobile No	Committee Profit	Payment Trx ID	Date	Status
Ashar Awan`	Monthly CHIT FUND	1	Single	61101-0121113-7	House no 24 street 01 Azeem Town Islamabad	03425564455	Your Committee amount will be 25,000	e.g 1111111111	2021-11-29	Processing

Chapter 4

Software Development

4.1. Coding Standards

Indentation

Proper code indentation is used in this project. The indentation of blocks of code enhances readability, understandability and hierarchy of lines of code.

Declaration

In this project we have used one declaration per line is to increase clarity and better understanding of code. Following is the order of declaration:

- The database configuration file has been imported at the beginning of each file.
- Login process for admin into system
- Matching admin credentials into database
- Login and logout process for admin
- Forgot password recovery via email
- Setting up Admin Profile and Edit Profile Details
- Views dashboard details and details of members

Statement Standards

Each line of code contains one declaration at most. Compound statements in this project contain lines of code enclosed in braces. The inner block of code of compound statements begin after the opening braces from next line. Proper indentation is also followed for lines of codes inside the compound statements. Proper braces are used in code around all statements such as if-else, try catch etc.

Naming Convention

Proper naming convention rules are followed while implementation of this project which make programs more understandable by making them easier to read. While implementing this project, we have used words from Natural Language (English) to properly assign understandable.

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Terminologies applicable to the domain of project are used. Implying that if admin refers to enter wrong username and password then he can see an alert for entering wrong username and password.

Development Environment

Sublime Text is a shareware cross-platform source code editor with a Python application programming interface (API). It natively supports many programming languages and markup languages, and functions can be added by users with plugins, typically community-built and maintained under free-software licenses.

The reason for using Sublime was that it provides a very interactive and easy to understand interface to work with web application. Different services were made by us related our final year project in Sublime that helps us to much.

Back End Development Environment

For back end development we are using php scripting language. PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites. It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.

Database management System

The MySQLi Extension (MySQL Improved) is a relational database driver used in the PHP scripting language to provide an interface with MySQL databases. In our project we make a database named as committee Database having table including details of users.

Table	Action	Rows	Type	Collation	Size	Overhead
list	<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	16	InnoDB	utf8mb4_general_ci	16.0 KiB	-
type	<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	2	InnoDB	utf8mb4_general_ci	16.0 KiB	-
user	<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	5	InnoDB	utf8mb4_general_ci	16.0 KiB	-
3 tables	Sum				48.0 KiB	0 B

4.2. Software Description

4.2.1. Signup process for User:

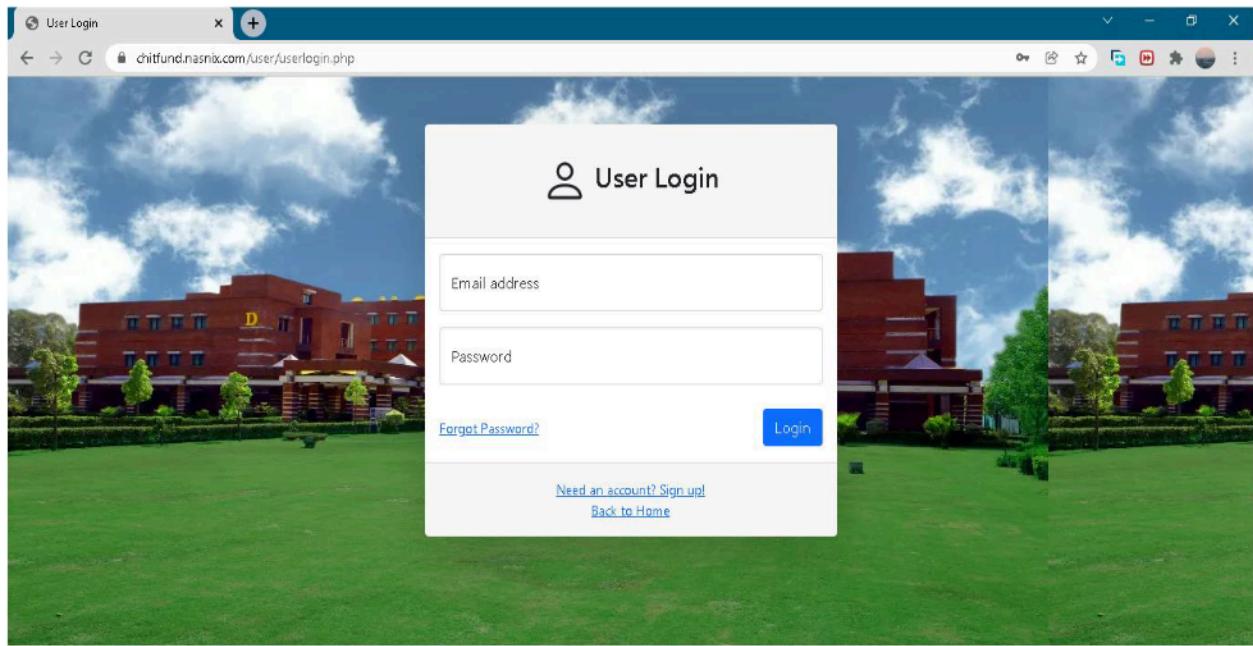
Input:

For first time user has to create their account, so this is the signup page in which user first enter their details First name, last name, email address, phone number and password.

4.2.2. Login process of User:

Input:

In this module, User see a login page in which he enter his/her credential i.e. email and password after verification his inputs with database if provided information is correct then the User login to system. In this process section is also start while user login to the system.



4.2.3. User Dashboard

After login to the system user can view his/her dashboard. In dashboard user can view total committee, total winners and total members including in committee. So, after viewing all details user can edit his profile if he wants so that he/she just clicks on edit button and update his/her profile.

A screenshot of a web browser showing the 'User Dashboard' page. The URL is chitfund.nasir.com/user/userdashboard.php. The page has a dark blue header with the text 'WELCOME TO CHIT FUND'. On the left, there is a vertical sidebar with icons for Home, Dashboard, Profile, Search, and others. The main content area shows a 'Hi there' greeting with a yellow hand icon, a search bar, and a 'New Conversation' button. Below this, there are three summary cards: 'TOTAL COMMITTEES' (2), 'TOTAL WINNERS' (1), and 'TOTAL MEMBER' (4). At the bottom, there is a copyright notice 'Copyright ©2021 .CHIT FUND', an 'Activate Windows' message, and a 'Chat by tawk.to' live chat window.

Chapter 5

Software Testing

5.1 Testing Methodology

After implementation, the process flow manager is tested for functional errors. We are going to do Black Box Testing (by passing random selected values and mapping it against the expected output in a normal flow), Unit and Integration Testing which is the testing of the functional requirements implemented in our system without regard to code.

The test cases are done manually without the use of any tool.

5.2 Test Cases

5.2.1 User signup

Table 5. 1 User Signup test case

Date: 01/11/2021	
System: CHIT FUND	
Objective: User Signup to System	Test ID: 1
Version: 1	Test Type: Unit Testing
Input First Name = Zeeshan Last Name = Asghar Email = <u>zeeshanasghar90@gmail.com</u> Contact Number = +923425465533 Password = 12345A@ Confirm Password = 12345A@	
Expected Output User account Created	
Actual Output Signup successfully	
Expected Exceptions Error in Database Record isn't inserted	

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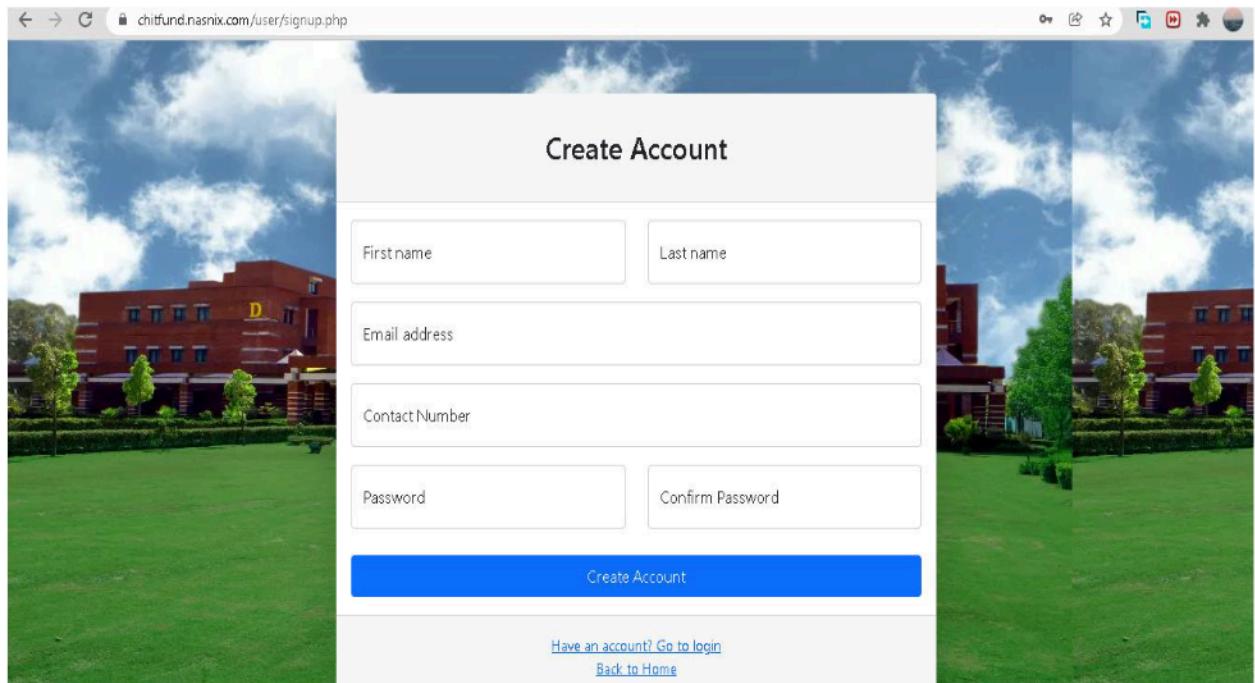


Figure 5. 1 User Signup form

5.2.2 View Dashboard

Table 5. 2 View Dashboard

Date: 05/11/2021	
System: CHIT FUND	
Objective: View Dashboard Details	Test ID: 2
Version: 1	Test Type: Unit Testing
Input	
user login to system email = admin@gmail.com password = admin	
Expected Output	
Dashboard should be Displayed	
Actual Output	
Dashboard is displayed	

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Expected Exceptions

Error in entering credentials Dashboard isn't displayed

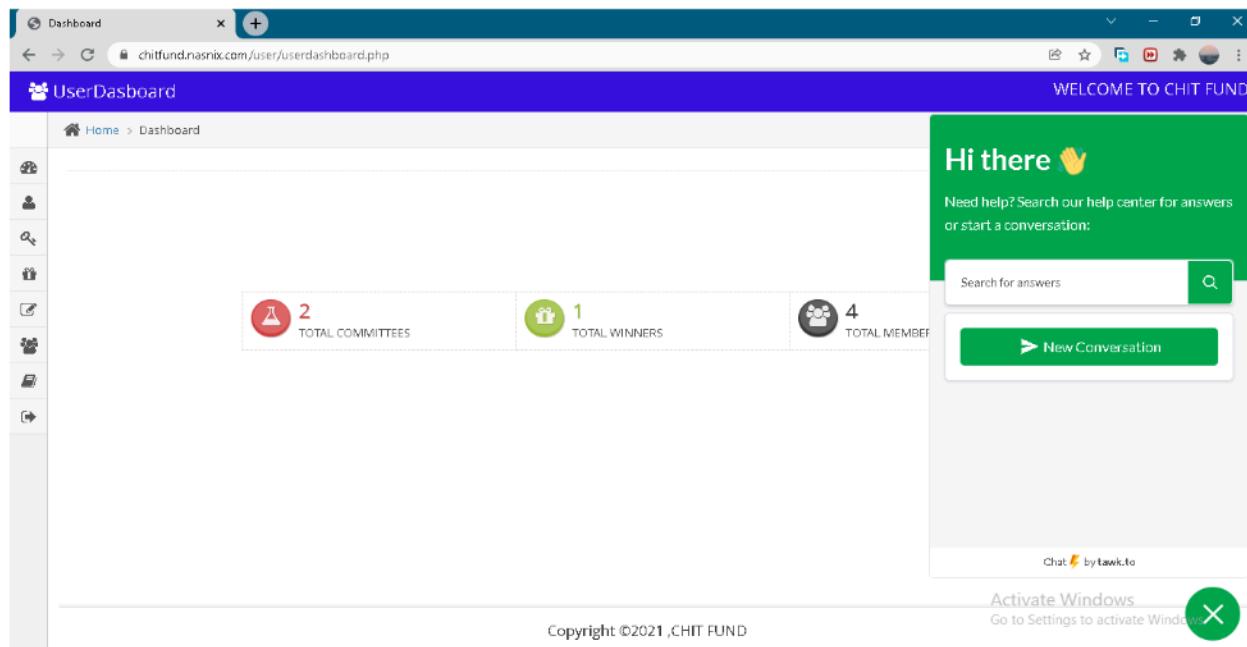


Figure 5. 2 View Dashboard

5.2.3 User Verification

Table 5. 3 user Verification

Date:	05/11/2021
System:	CHIT FUND
Objective:	User Verification
Version:	1
Input Click on Verify me button Phone Number = phone number Select Country = Pakistan Input ID-Card = Identity Card	
Expected Output Verification completed successfully	

Actual Output

Credential Submitted

Expected Exceptions

User cancel verification process or wrong details provided.

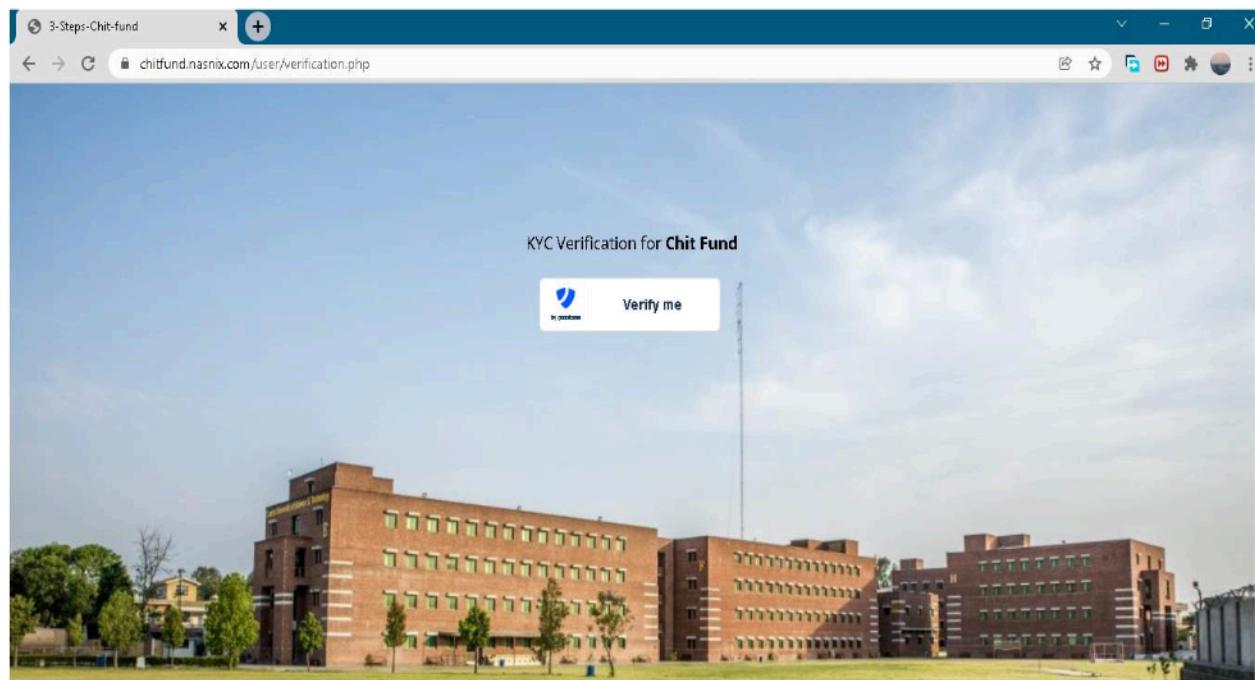
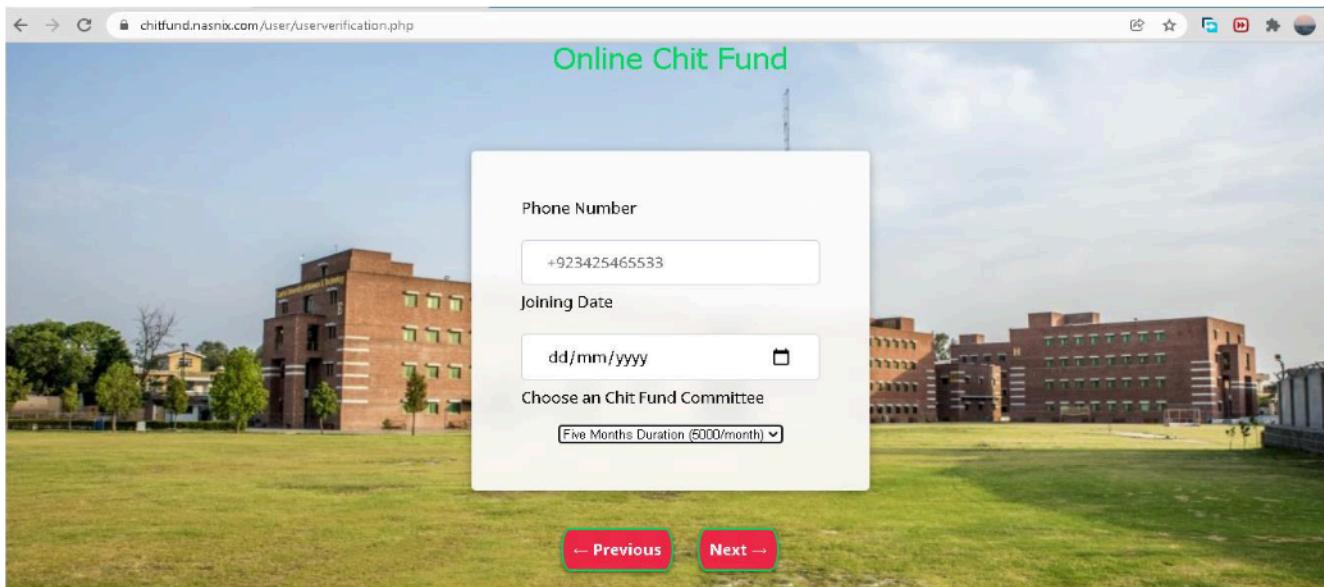


Figure 5. 3 User kYC Verification

5.2.4 User Join Committee

Table 5. 4 User join committee

Date: 10/11/2021	
System: CHIT FUND	
Objective: User Join Committee	Test ID: 4
Version: 1	Test Type: Unit Testing
Input Select Committee type Phone number = phone Number Date = 30/11/2021 Choose Committee = 5 Months	
Expected Output Committee type selected	
Actual Output Committee join successfully	
Expected Exceptions Error in entering credentials committee's section isn't displayed	



5.2.5 Payment details

Date: 15/11/2021	
System: CHIT FUND	
Objective: Payment Details	Test ID: 5
Version: 1	Test Type: Unit Testing
Input Click on Payment Button QR Code is Displayed User scan QR by easypasia Application Click = pay amount	
Expected Output Easypasia QR Code is displayed	
Actual Output QR Code is displayed successfully	

Expected Exceptions

Doesn't scan the QR Code Properly.

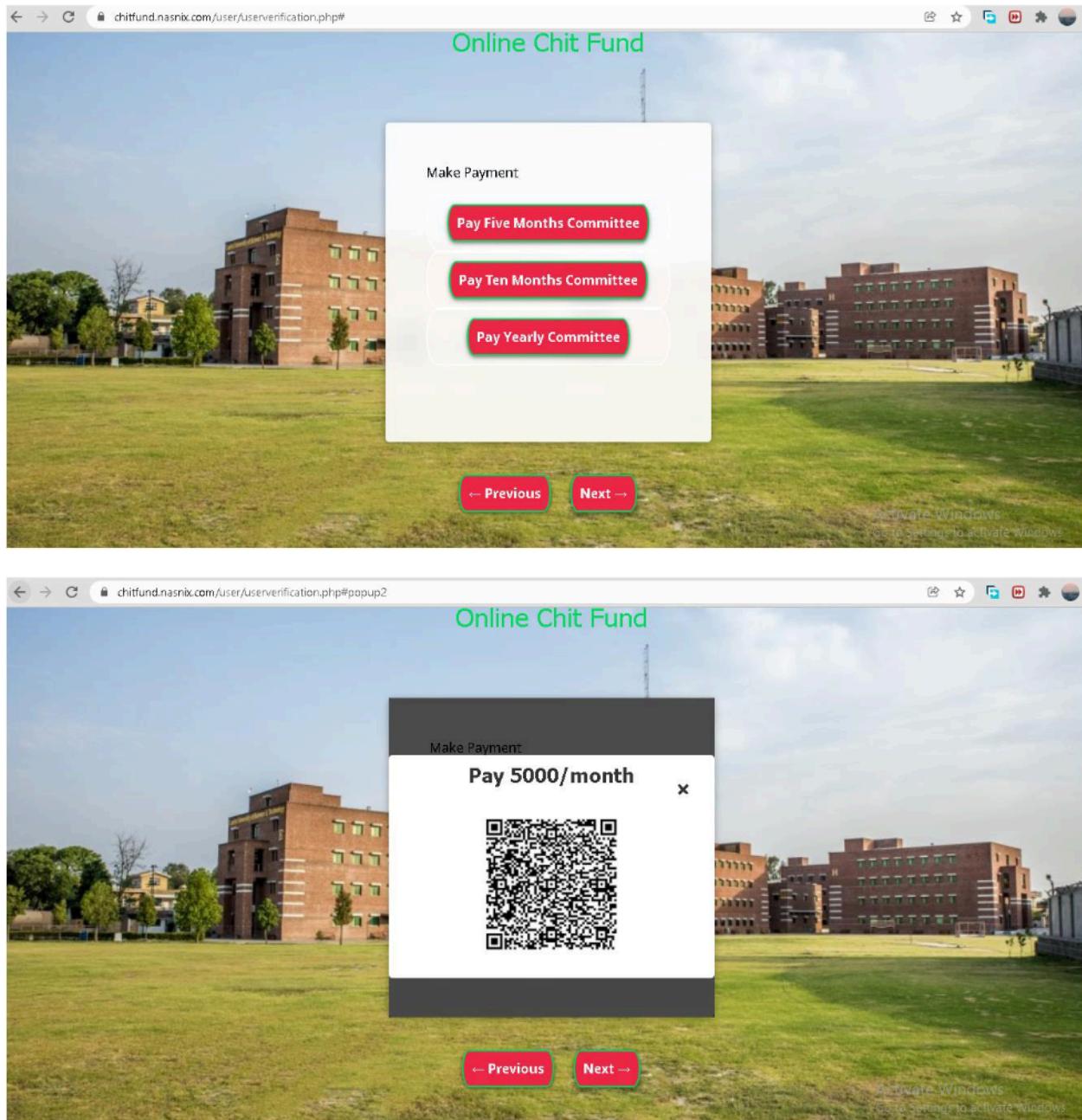


Figure 5. 4 Committee payment

5.2.6 User Status

Table 5. 5 user status

Date: 25/11/2021	
System: CHIT FUND	
Objective: User Status	Test ID: 6
Version: 1	Test Type: Unit Testing
Input	
User Click on check status button	
Input = ID Card number	
Expected Output	
Member Details is displayed	
Actual Output	
Details are successfully displayed	
Expected Exceptions	
Errors in entering ID card.	

Check Your Status by CNIC

Record will show here!

Member Name	Committee Type	Committee No	Committee Ratio	Cnic No	Address	Mobile No	Committee Profit	Payment Trx ID	Date	Status
Ashar Awan	Monthly CHIT FUND	1	Single	61101-0121113-7	House no 24 street 01 Azeem Town Islamabad	03425564455	Your Committee amount will be 25,000	123456789	2021-11-29	Processing

Previous Next

Figure 5. 5 user status

6. References

[1] Oraan Tech Pvt. Ltd. company established in Karachi, Pakistan (“Oraan”) in 2018. Last update 2021. Link <https://www.oraan.com/>

[2] Committee Manager Version: 5.0. Released Date: 2021-01-23 Link
<https://play.google.com/store/apps/details?id=com.nibitech.cm&hl=en&gl=US>

Good Luck