



COMMUNIGATE

A Society Management System



Submitted To:
Parangat College Of Computer Science
For Academic Year: - 2023-2024

BY
MEET MEHTA
KEVAL GOTHI



Parangat College Of Computer Science - Halvad

Maharshi Gurukul Campus, Ranekpar Road, Halvad - 363330

Website: www.parangatcollege.com

E-mail ID: parangatcomputerscience@gmail.com

Department of Computer Science

CERTIFICATE

This is to certify that Shri/Kum. Meet Mehta. Students of 5th Semester with seat no: 050725 BCA. (Bachelor Computer Application), Parangat College of Computer Science, Halvad has completed his/her 5th semester of project work title “ **Communigate-society management system** ” satisfactorily in partial fulfilment of requirement of Bachelor of Computer Application degree of Computer Science, Saurashtra University, Rajkot in the academic year 2023-24.

Place: Halvad

Date: 25-9-2023

Head Of Department

Project In Charge

Principal



Parangat College Of Computer Science - Halvad

Maharshi Gurukul Campus, Ranekpar Road, Halvad - 363330

Website: www.parangatcollege.com

E-mail ID: parangatcomputerscience@gmail.com

Department of Computer Science

CERTIFICATE

This is to certify that Shri/Kum. Keval Gothi, Students of 5th Semester with seat no: 050711 BCA. (Bachelor Computer Application), Parangat College of Computer Science, Halvad has completed his/her 5th semester of project work title “ **Communigate-society management system** ” satisfactorily in partial fulfilment of requirement of Bachelor of Computer Application degree of Computer Science, Saurashtra University, Rajkot in the academic year 2023-24.

Place: Halvad

Date: 25-9-2023

Head Of Department

Project In Charge

Principal

Acknowledgement

I would like to express a deep sense of thanks & gratitude to my project guide Jignesh Nayakpara for guiding me immensely through the course of the project. He always evinced keen interest in my work. His constructive advice & constant motivation have been responsible for the successful completion of this project.

My sincere thanks go to our principal sir for his co-ordination in extending every possible support for the completion of this project .

I also thanks to my all faculty for their motivation & support. I must thanks to my classmate for their timely help & support for compilation of this project. Last but not least, I would like to thanks all those who had helped directly or indirectly towards the completion of this project.

Thank you
Meet Mehta
Keval Gothi

Preface

We are the student of BCA Sem-5 Parangat College Of Computer Science is affiliated with Saurashtra University, Rajkot. The period of project work is from June 2023 to September 2023.

We have used PHP as front-end tool and MySQL as database back-end tool. This application is developed on informative Society Management System. The project development is the acid test of the theoretical knowledge of the student after completing the course. This project development aims bringing the gap between theoretical and practical knowledge.

We are very thankful to our BCA staff who always ready to give us any type of guidance and help about our project we are also thankful to our project guide **Amit Kaila** who had given importance guidance about our project we are also thankful to our family members especially our mom,dad, and brother who inspired us for our project.

Index

No	Title		Page
1	Information Gathering		1
	1.1	Project Title	1
	1.2	Purpose	1
	1.3	Scope of System	2
2	Requirement analysis		4
	2.1	Project Analysis & Function	4
	2.2	System Requirement	5
		2.2.1 Tools & Technology	5
		2.2.2 Hardware Specification	5
		2.2.3 Software Specification	5
3	Feasibility Study		6
4	Database Design		8
	4.1	UML Design	8
		4.1.1 DFD	8
		4.1.2 First Level Diagram	9
		4.1.3 Use Case Diagram	11
		4.1.4 Activity Diagram	13
		4.1.5 Class Diagram	16
5	Data Dictionary		17
6	Screen Layout		21
7	Software Testing		28
8	Milestone		31
9	Bibliography		31

1. Information Gathering

► A Society Management System is a software solution designed to simplify the administration of residential complexes or societies. It serves as a centralized platform that enables efficient communication and management between residents and the society's management committee.

► Project Title:

- "CommuniGate" is the web-based software for managing society efficiently.
- "CommuniGate" is a combine Word of communication on gate as we all know for any society all management are always done at society gate.
- Comparing to that all necessary communications or management will now be done on our CommuniGate.
- As name show our product is a complete package to managing society properly.
- "CommuniGate" is best alternative for management person.

COMMUNIGATE

► Purpose:

- Objective of Society management. System is to manage all day-to-day Society work, tasks and for maintaining information about Society and flats.
- Purpose is to shift all the daily work from Physically to digitally.

► Scope of System:

- Description of current system:
 - in current framework, all the work is done physically, the notice board is traditional hence there is problem of unreachable information & more time consuming.
- Proposed system:
 - in our CommuniGate virtual notice board will implement so that notices can be seen from anywhere and will be available to everyone thorough website.
 - there will be two logins admin and member to ensure the authenticity of things.

COMMUNIGATE

- Main Features:
 - This software has built in notice board which notified user whenever society has some important notice.
 - Software contains bill payment interface, that beneficiary towards the transparency.
 - Software has visitor logbook that helps to maintaining members personal security.
 - Software contains contact book for all miscellaneous and necessary contacts.
 - Software contains brief member details which help each other to interact properly.
 - Members directly contact with staff or secretary for any concern.
 - Software support both dark or light mode.
 - Member can contact for any house help and basic needs.

2. Requirement Analysis

► Project analysis and functionality:

- Project analysis follows around user's module.
- **Login:**
 - Users can login with the email and password which was given to admin.
- **Dashboard:**
 - contains summery of all the important data.
- **Announcement:**
 - Contains virtual notice board for important announcement.
- **Bill:**
 - Contains Bill Information Specific to the user.
- **Member:**
 - Contains the details about all members.
- **Staff:**
 - Contains the details about all staff.
- **Logout:**
 - Users who want to exit the app click this button.

► System Requirements:

○ Tools and technology:

● Frontend Tools	● Html ● CSS ● Java script ● php
● Backend Tools	● MySQL
● Documentation tools	● Word
● Web Server	● MySQL server
● Web Browser	● Google chrome
● Operating system	● Windows 11

○ Hardware Specification:

- 8Gb ram
- 512Gb SSD

○ Software Specification:

- VS Code
- Xampp

3. Feasibility study

- A feasibility study is determined the possibility or probability of either improving the existing system or developing a completely new system.
- It is said that “First Impression Is Last Impression.” To show this best impression of our website we must show in a professional way.
- The feasibility of the system checks whether the system can efficiently provide the facilities for which it the likelihood of the system being widely acceptable to the targeted client.
- Feasibility study decides whether the system is properly developed or not.
- Feasibility study is a process to check the possibility of system development. It is a method to check various and availability of financial & technical resources.
- The feasibility study indicates that the Society Management System project is technically, economically, operationally, and scheduling-wise feasible. With the right implementation and a strong focus on user adoption, the project is expected to bring substantial benefits to residential societies and generate a positive return on investment. The next step is to proceed with project development and deployment.

○ **Technical Feasibility:**

- Feasibility study is a process to check the possibility of system development. It is a method to check various and availability of financial & technical resources.
- Minimum System Requirements is such that it can be affordable by of the user who is having computer.
- All the user requires is compatible browser, so our system is fully technical feasible.

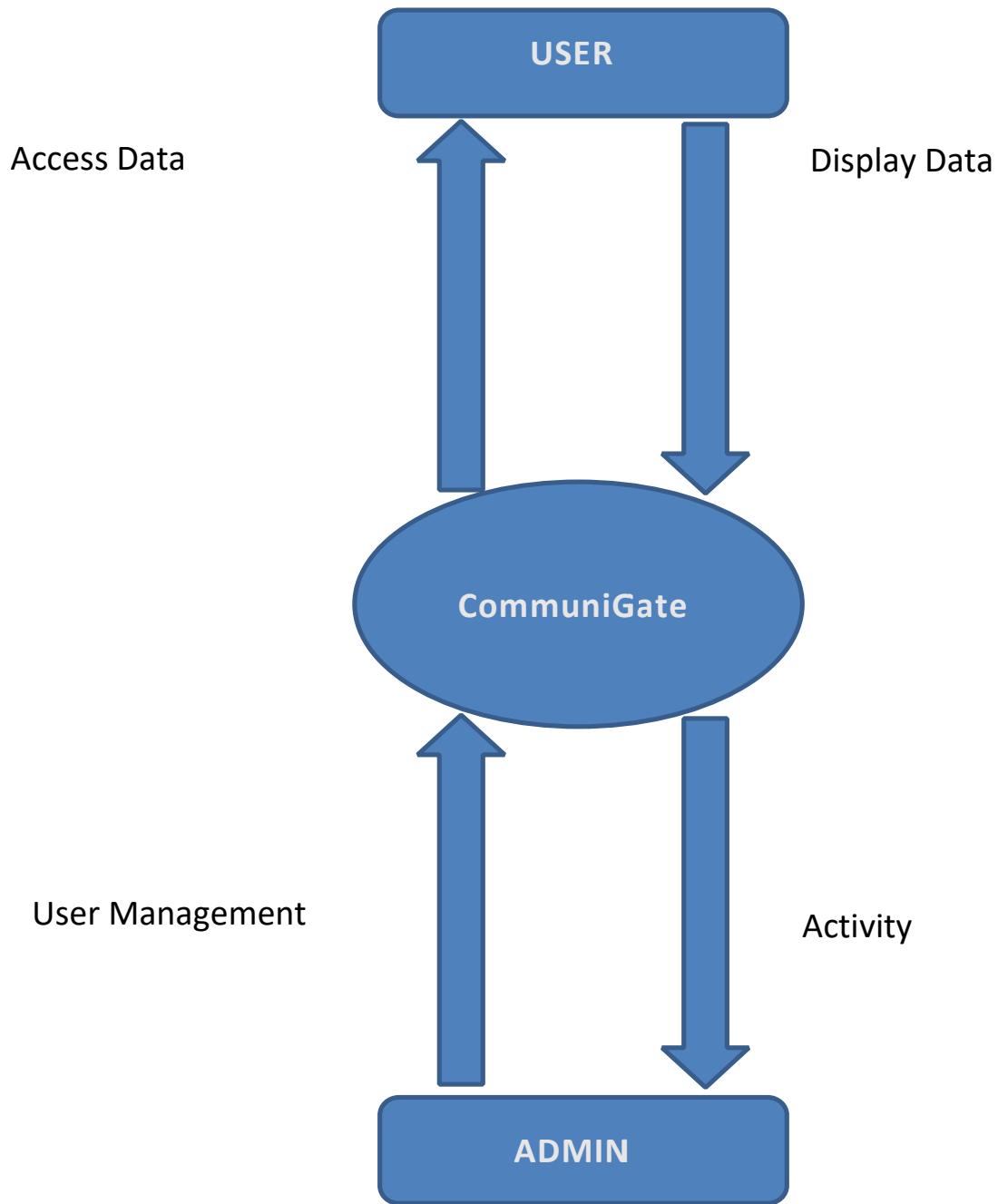
○ **Economic Feasibility:**

- Implementation of this system will be a lifetime investment, which will ensure return to the store of good services & market value throughout the future. So, the system is found economical feasible.
- The economic feasibility takes into consideration of the financial matter regarding the proposed system.
- The project's ROI will be achieved through user subscriptions and fees collected from societies using the system. A detailed revenue model forecasts a positive ROI within 18 months of deployment.

4. UML Design

⬆ DFD (Data Flow Diagram):

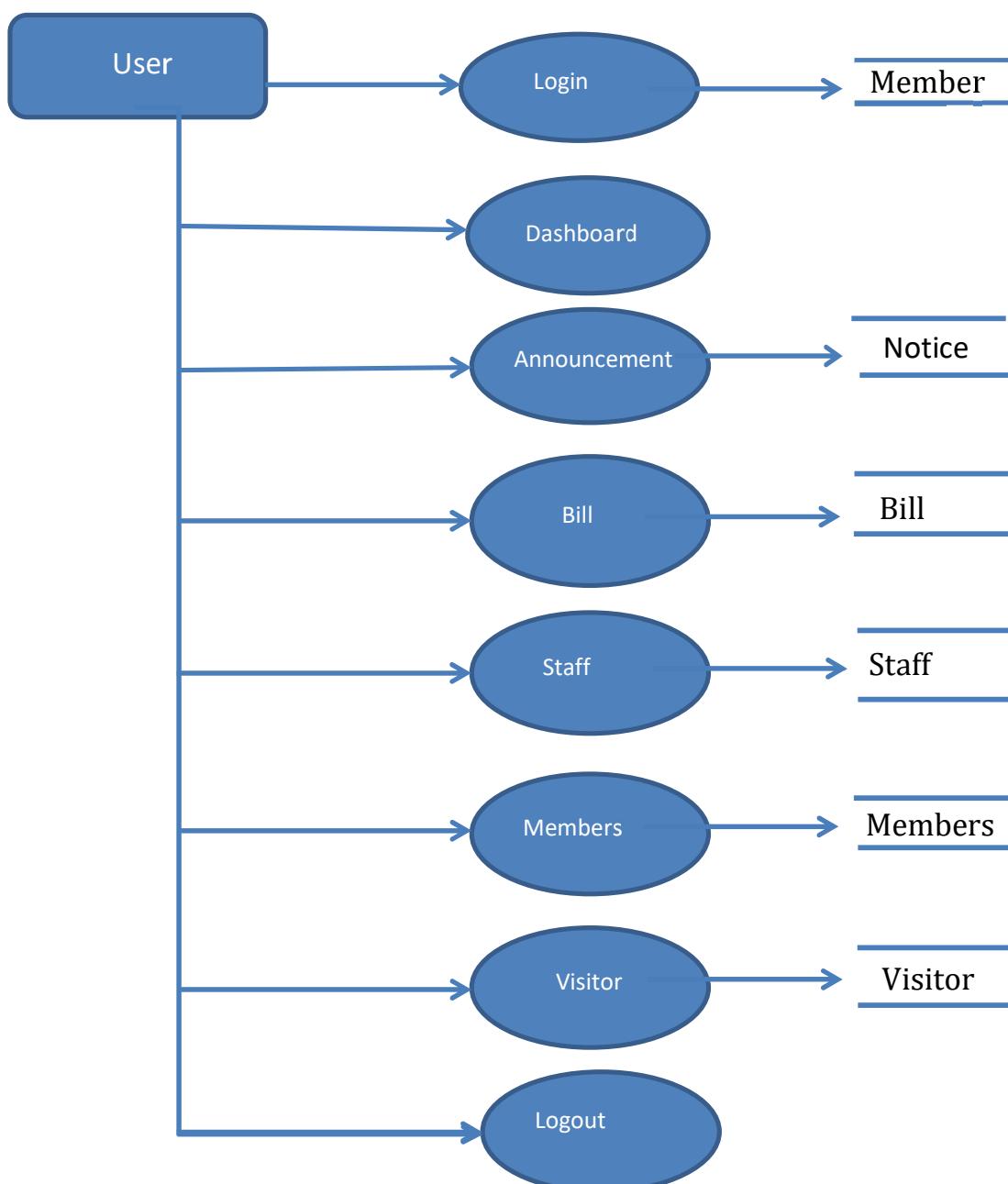
- Zero/context Level Diagram:



COMMUNIGATE

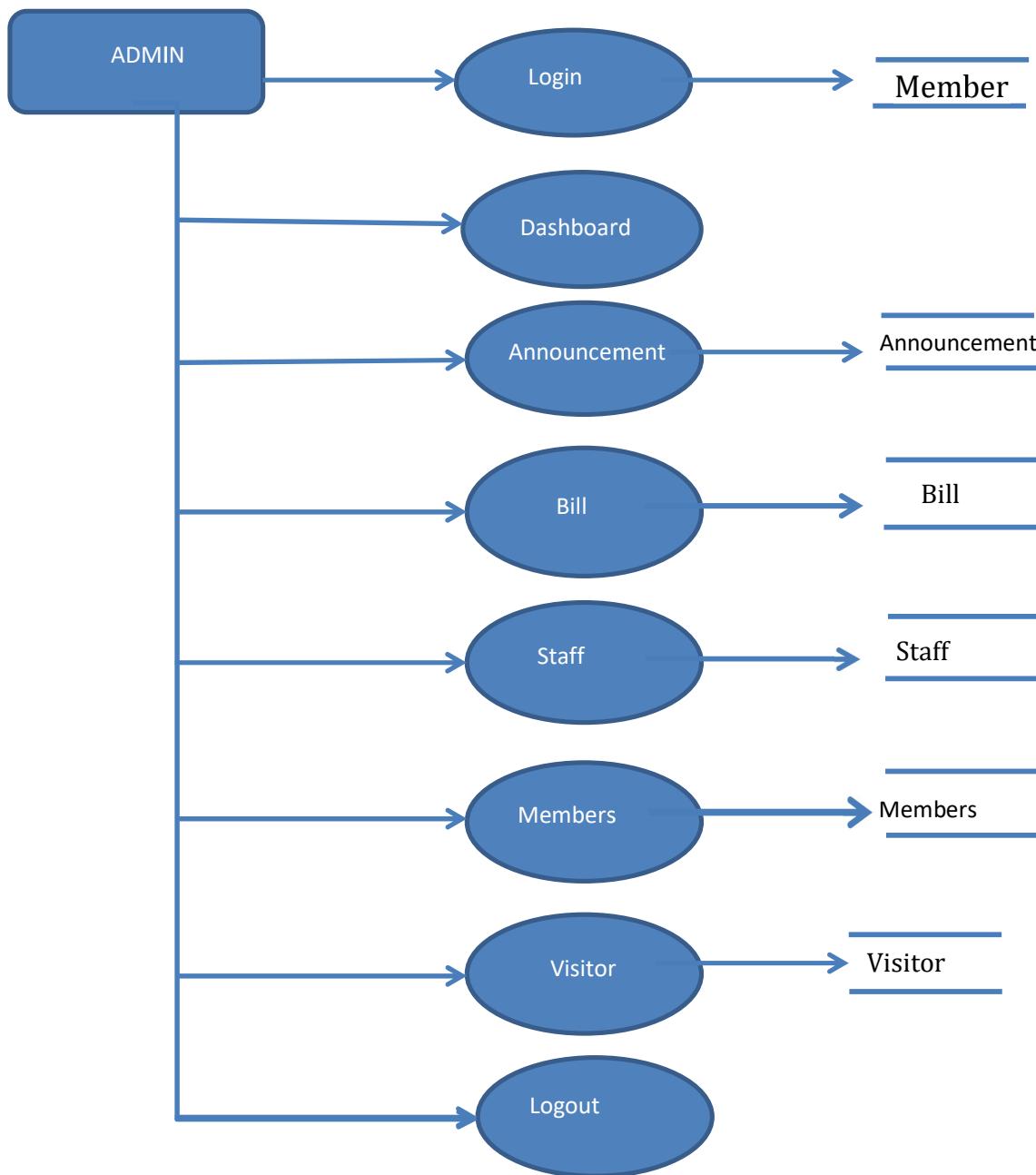
- First Level Diagram:

- User Side: -



COMMUNIGATE

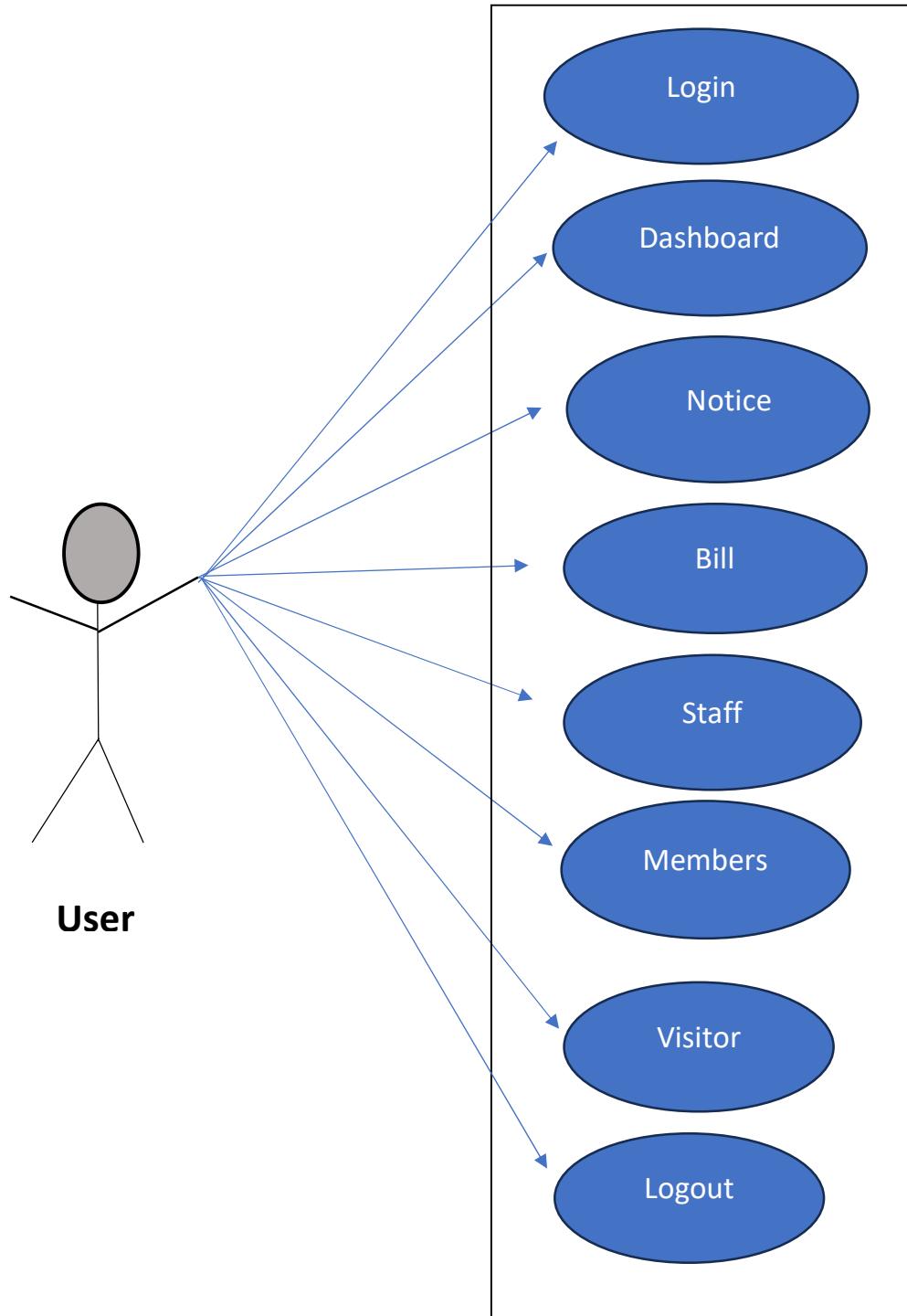
- Admin Side: -



COMMUNIGATE

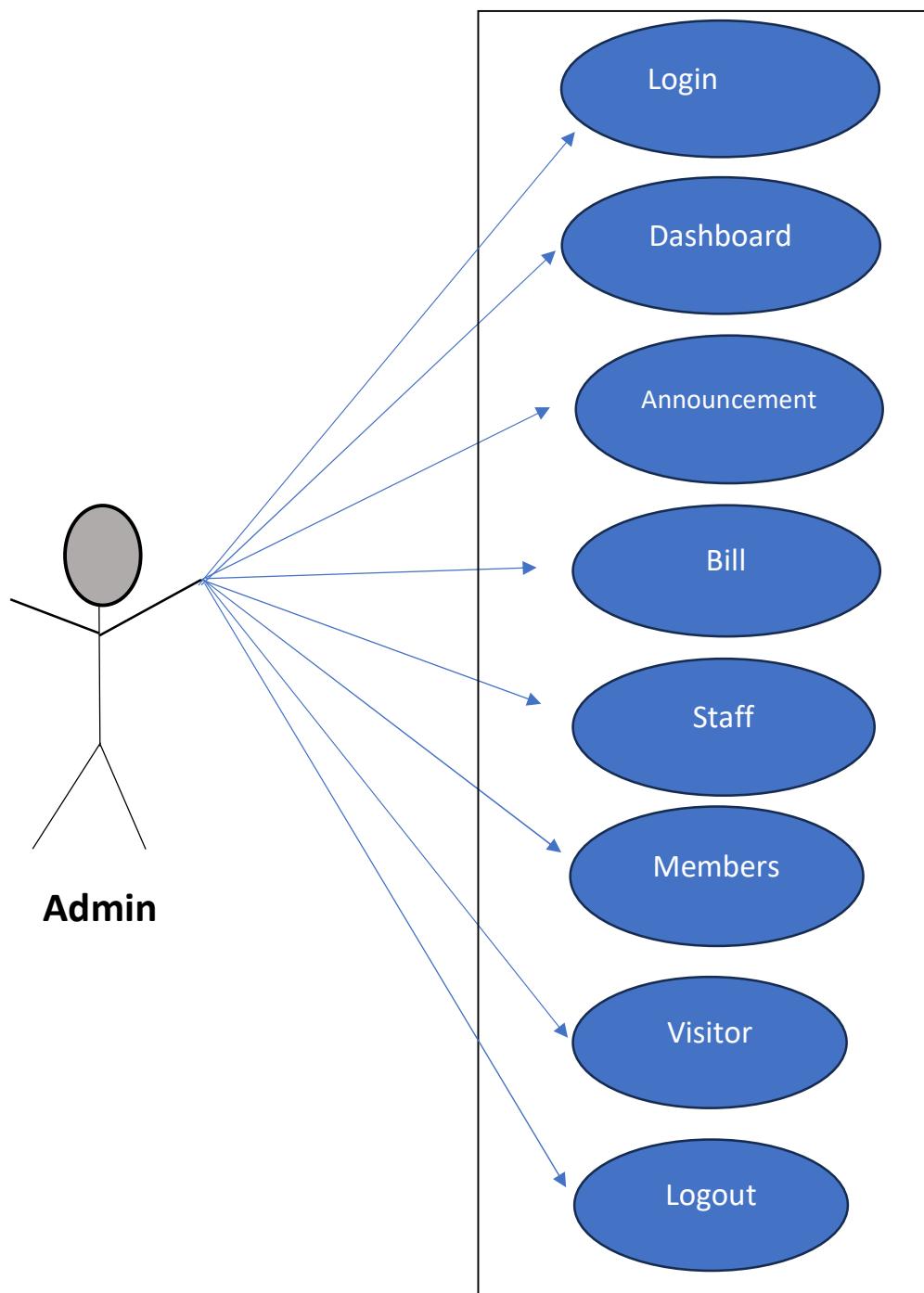
○ Use Case Diagram:

- User Side: -



COMMUNIGATE

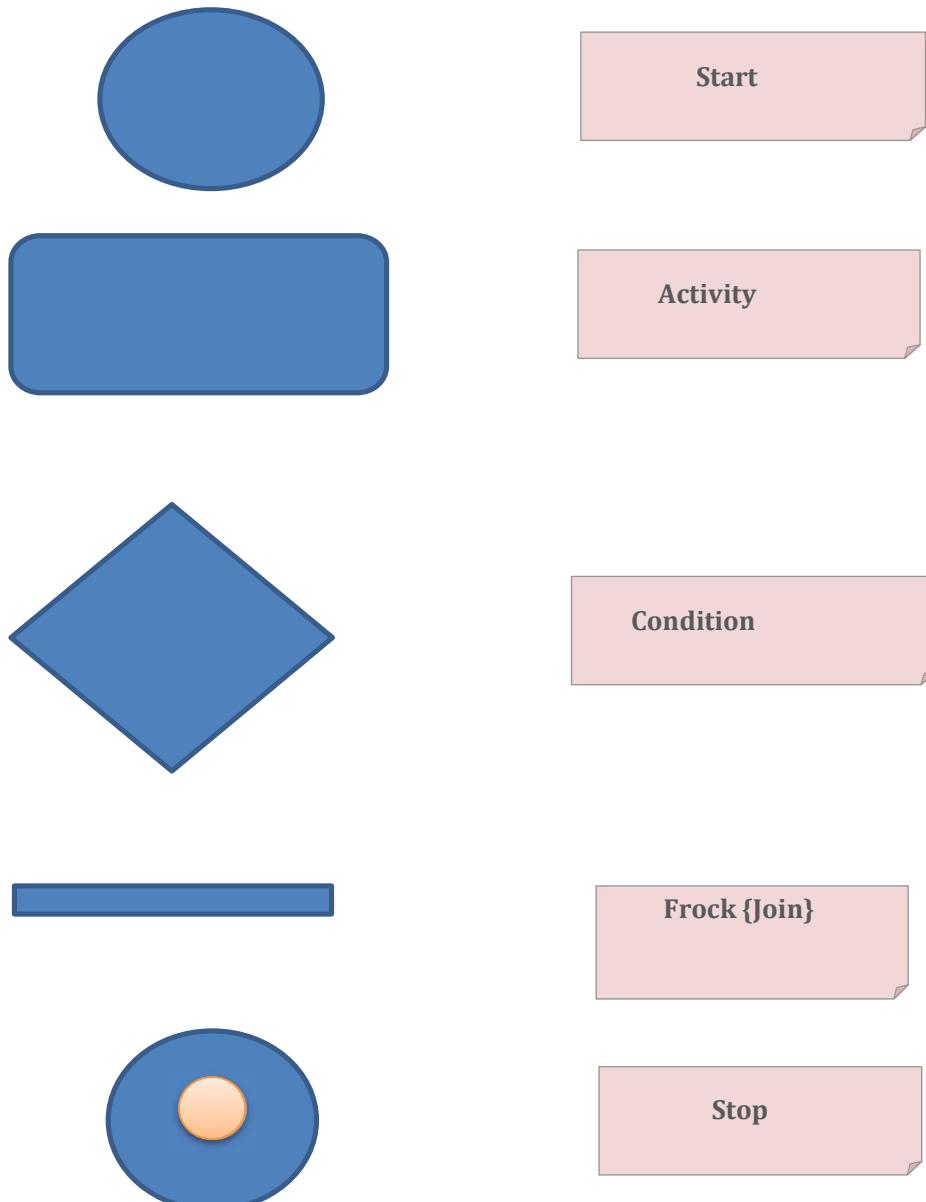
- Admin Side: -



COMMUNIGATE

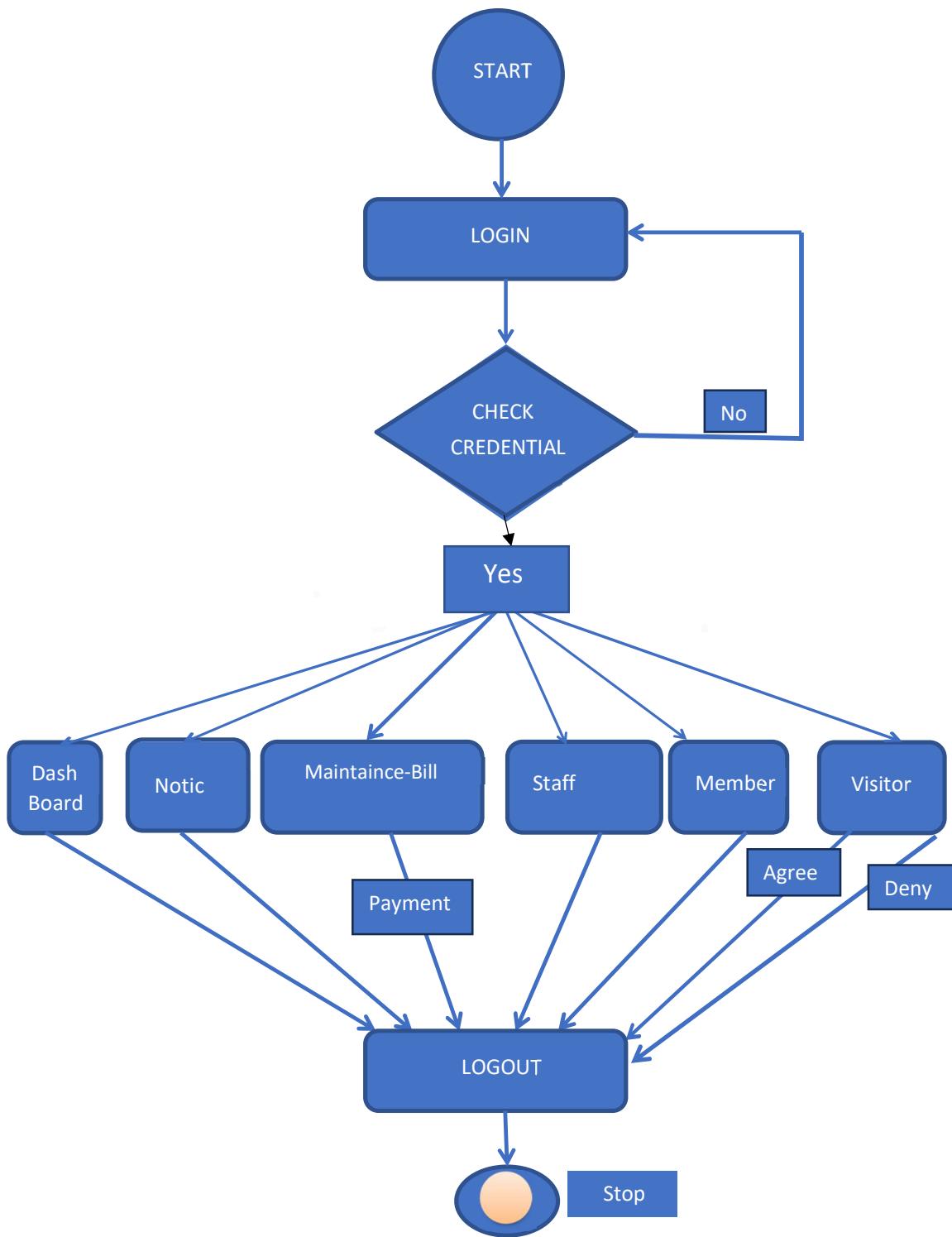
- Activity Diagram: -

Symbols: -



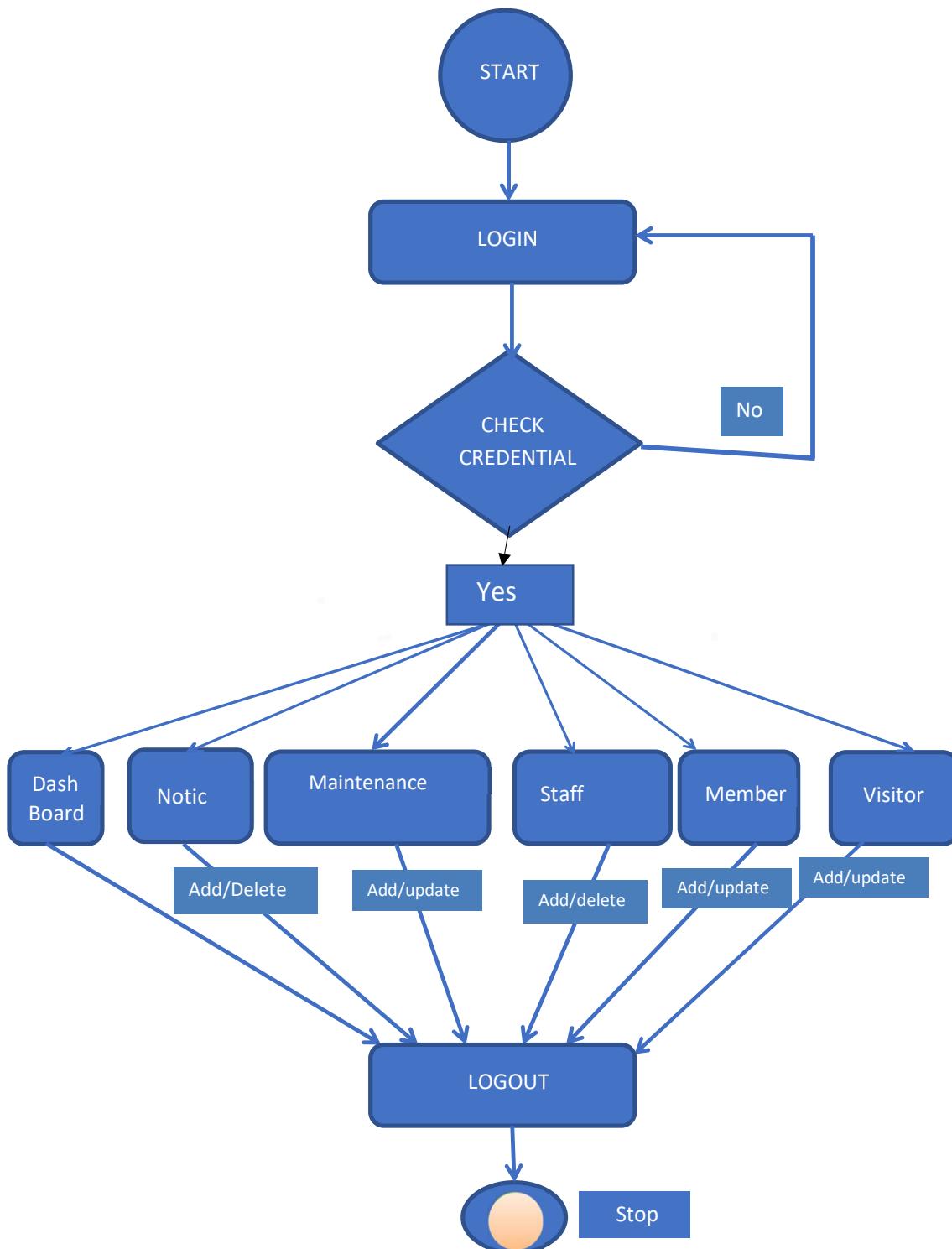
COMMUNIGATE

- User Side :-



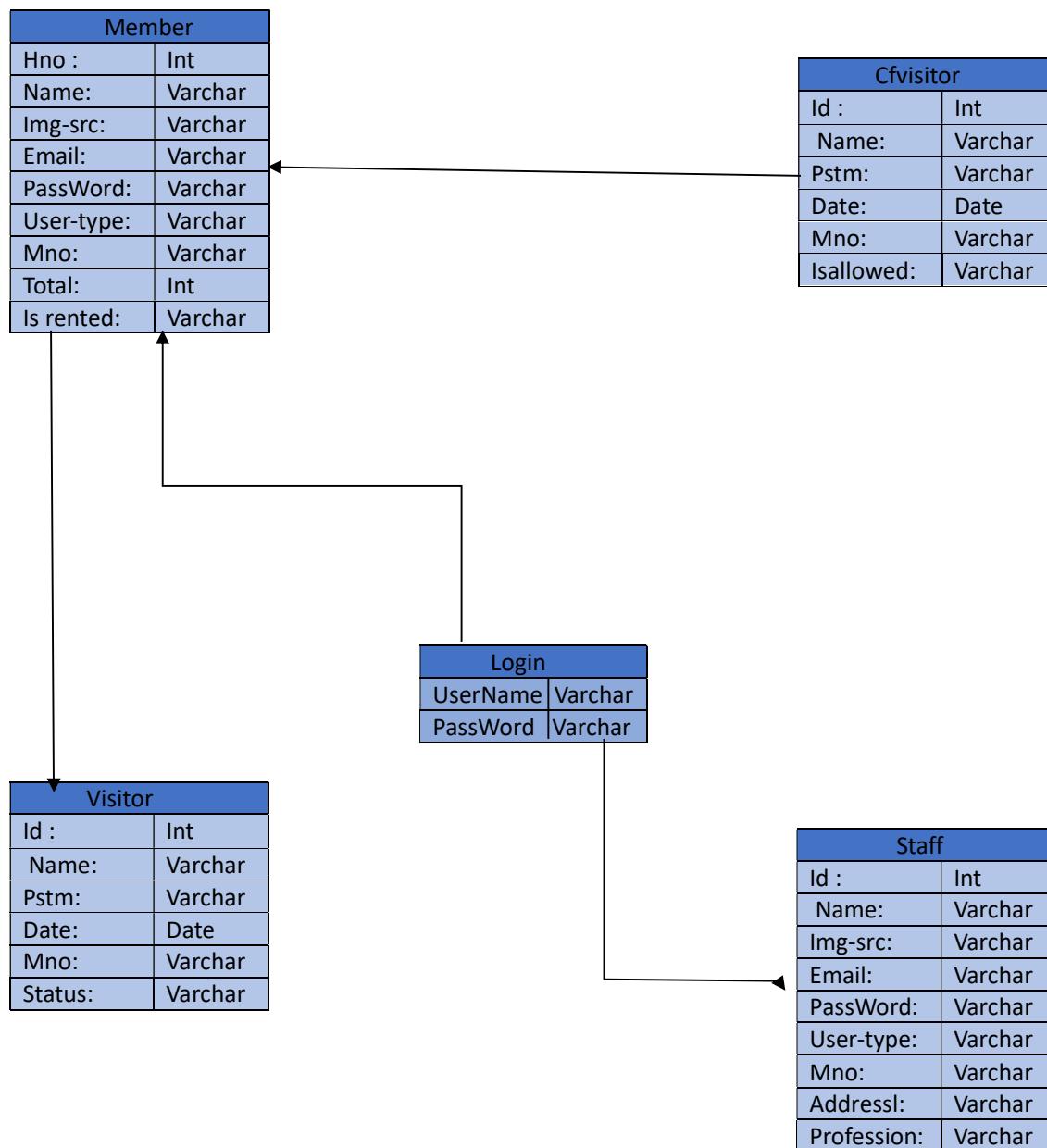
COMMUNIGATE

- Administrator :-



COMMUNIGATE

o Class Diagram: -



5. Data Dictionary:

- In data dictionary, you will find a list of all elements composing the data flowing through a system.
- The major elements are data flows, data stores and processes.
- The data dictionary stores details and descriptions of these elements.

↑ Member:

#	Name	Type
1	hno 	int(255)
2	name	varchar(255)
3	img_source	varchar(400)
4	email	varchar(255)
5	password	varchar(255)
6	user_type	varchar(255)
7	mno	varchar(15)
8	total	int(25)
9	isrented	varchar(10)

COMMUNIGATE

⬆ Announcement:

#	Name	Type
1	id  	int(255)
2	title	varchar(100)
3	content	varchar(8000)
4	date	date
5	lastdate	date

⬆ Maintenance:

#	Name	Type
1	bill_id 	int(11)
2	name	varchar(255)
3	billing_period	date
4	due_date	date
5	wb	int(255)
6	eb	int(255)
7	mf	int(255)
8	total_amount	decimal(10,2)
9	status	enum('paid', 'unpaid', 'overdue')
10	payment_date	date
11	payment_method	varchar(50)

↑ Staff:

#	Name	Type
1	id 	int(255)
2	img_source	varchar(400)
3	name	varchar(255)
4	mno	varchar(15)
5	email	varchar(255)
6	password	varchar(255)
7	address	varchar(8000)
8	Profession	varchar(255)
9	user_type	varchar(10)

↑ Visitor:

#	Name	Type
1	id 	int(255)
2	name	varchar(255)
3	mno	varchar(255)
4	pstm	varchar(255)
5	date	date
6	status	int(1)

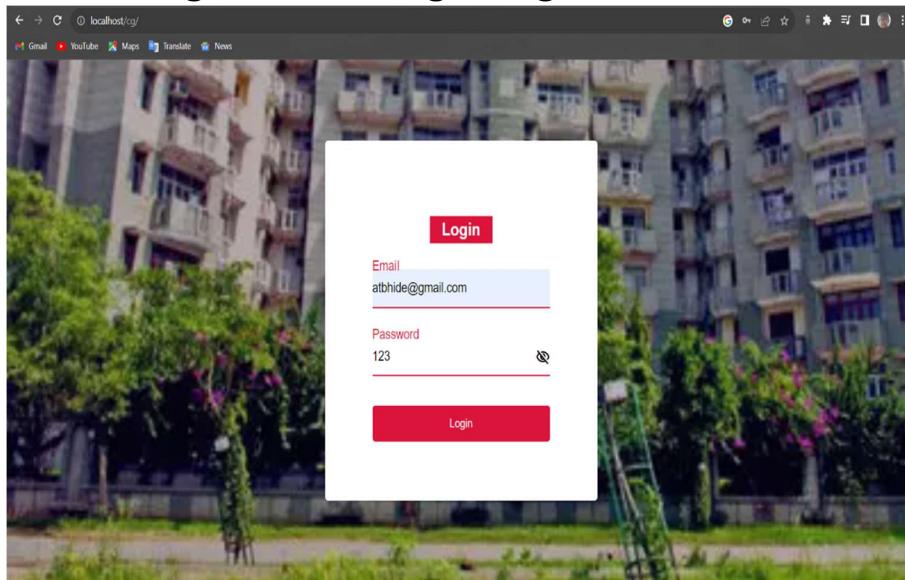
► cfvisitor:

#	Name	Type
1	id 	int(255)
2	name	varchar(255)
3	mno	varchar(255)
4	pstm	varchar(255)
5	date	date
6	isallowed	varchar(255)

6.Screen Layout

○ Admin Panel:

- Login: This is Login Page



- Dashboard: After Admin Login dashboard

A screenshot of the Admin Panel dashboard. The left sidebar shows navigation options: Dashboard, Member (selected), Announcement, Maintenance-bill, Staff, and Visitor. The main area has three summary boxes: 'Total Maintanience ₹3144.00', 'Visitor 2', and 'Total Members 14'. Below this is a 'Members' section with profiles for Derashree meet, Atmaram Bhide, Dr. Hathi, popatal, Monish, and a 'More New User' button. On the right, there's a circular logo for 'GokulDham Soc.' with 'COMMUNIGATE SOCIETY SOLUTIONS IMPRIRED' text, and a 'Logout' button at the bottom left.

COMMUNIGATE

- Member: Admin can add, delete and update members

The screenshot shows the CommuniGate admin interface. On the left, there's a sidebar with 'Dashboard', 'Member' (which is selected), 'Announcement', 'Maintenance Bill', 'Staff', and 'Visitor'. The main area displays three member profiles: 'Atmaram Bhide' (House No. 3 Total member 3), 'Dr. Hathi' (House No. 5 Total member 3), and 'popatal' (House No. 7 Total member 1). Each profile includes a photo, name, email, house number, total members, and two buttons. A modal window titled 'Add Member' is open on the right, prompting for 'Name', 'Mobile Number', 'Total Member', 'Enter Email', 'Enter Password', 'Enter Confirm Password', and a 'Cancel' button.

- Announcement: Admin can add and delete announcement

The screenshot shows the CommuniGate admin interface. The sidebar includes 'Dashboard', 'Member', 'Announcement' (selected), 'Maintenance Bill', 'Staff', and 'Visitor'. The main area shows an announcement titled 'meeting today' with the subtext 'We have urgent meeting tonight'. A modal window titled 'Add Announcement' is open, prompting for 'Title', 'Content', 'Due date dd-mm-yyyy', and a 'Cancel' button.

COMMUNIGATE

- Maintenance-bill: Admin can create bill for specific member.

The screenshot shows a web application interface for creating a maintenance bill. On the left, there's a sidebar with links for Dashboard, Member, Announcement, Maintenance-bill (which is selected), Staff, and Visitor. The main content area has a title 'Maintainence-bill' and a table with columns: Id, Name, Last Date, Total Amount, and Status. There are three rows: 1. popatal, 2023-10-12, 700.00, unpaid. 2. Jethalal, 2023-10-13, 700.00, unpaid. 3. Dr. Hathi, 2023-10-13, 700.00, paid. A modal window titled 'Enter Name' is open, prompting the user to 'Select Person's Name'. It also contains fields for Water-Bill, Electricity-Bill, and Maintenance-Fee, each with an 'Enter' placeholder. A 'Create Bill' button is at the bottom of the modal, and a 'Cancel' button is at the bottom right.

- Staff: Admin Can See, Add and Delete details of Staff.

The screenshot shows a web application interface for managing staff. The sidebar includes links for Dashboard, Member, Announcement, Maintenance-bill, Staff (selected), and Visitor. The main area displays a card for 'Abdul', showing a photo, the name 'Abdul', the profession 'shopkeeper halwai', and two buttons: a green one labeled 'Edit' and a red one labeled 'Delete'. A modal window titled 'Add Staff' is open, containing fields for Enter Photo (with a 'Choose file' button), Enter Name (placeholder 'Eg Babu Bhai'), Mobile No. (placeholder 'E.g 9925685449'), Email (placeholder 'E.g babubhai@nagpur.com'), Password, Address, and Profession. A 'Add Staff' button is at the bottom of the modal, and a 'Cancel' button is at the bottom right.

COMMUNIGATE

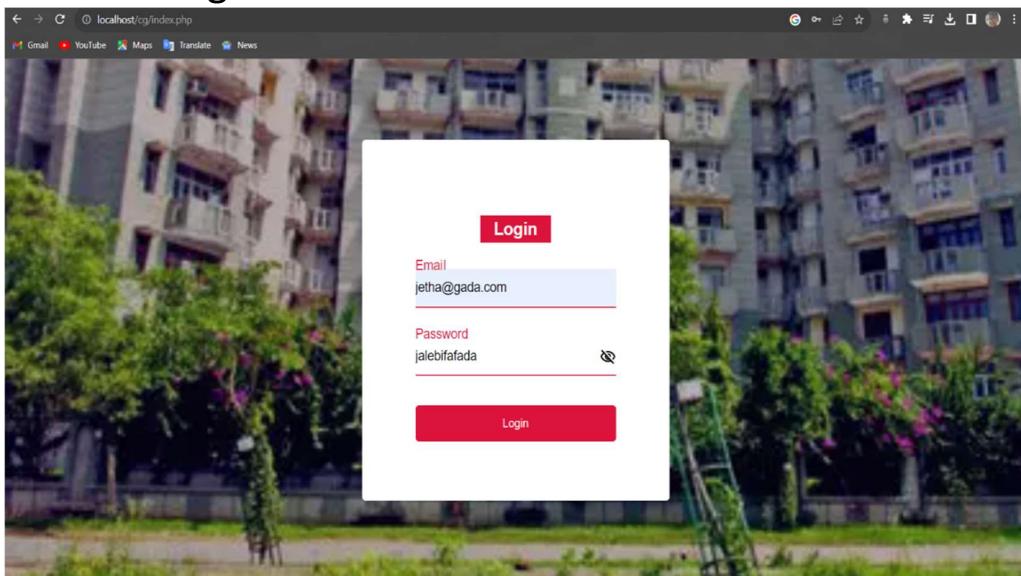
- Visitor: Admin Can See, Add and Update status of visitor. Visitor could add when the member agrees.

The screenshot shows two browser windows side-by-side. The left window displays the 'Visitors' list on the 'CommuniGate' admin dashboard. The table has columns: ID, Name, Mobile No., Person to Meet, Status, and Date. There are 7 entries. The right window shows a modal for 'Add Visitor'. It has fields for Name (with placeholder 'Enter Visitor Name'), Mobile No. (placeholder 'Enter'), Person To Meet (dropdown menu), and a 'JustVisitor' option selected. A dropdown menu titled 'Select Person's Name' lists several names, with 'JustVisitor' highlighted in blue.

ID	Name	Mobile No.	Person to Meet	Status	Date
1	pnku	113434	tpu	out	2023-08-27
5	Jayesh	9864489864	visitor	out	2023-08-28
6	ladiwale	9320920302	popatil	in	2023-08-12
7	test	9320920302	popatil	in	2023-08-12

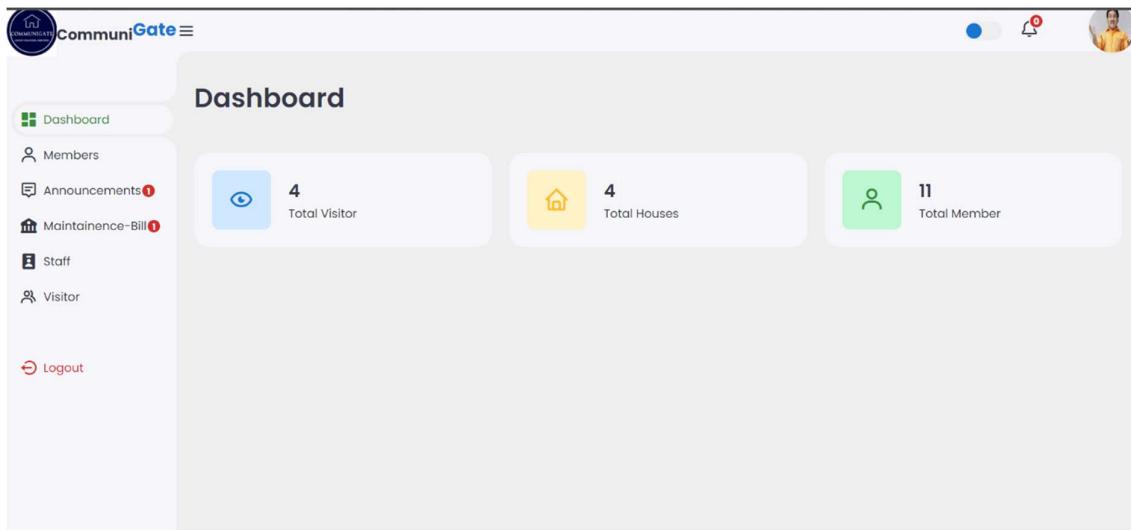
○ User Panel:

- Login:

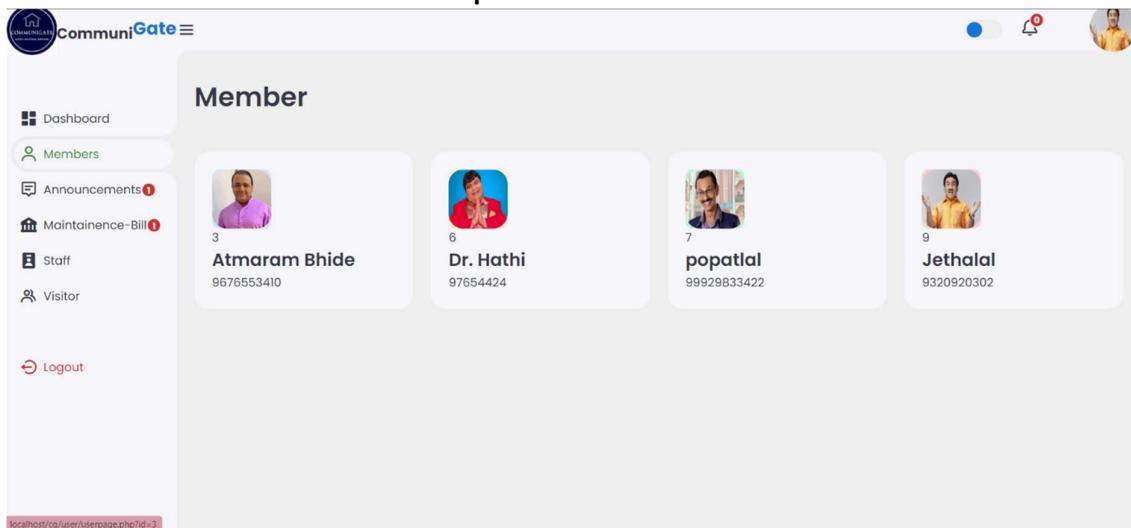


COMMUNIGATE

- Dashboard: This is Dashboard of User



- Member: This is Member Page and User Can See All Details of Specific Member.



COMMUNIGATE

- Announcement: User's Announcement Page.

The screenshot shows the CommuniGate application interface. At the top, there is a navigation bar with icons for Dashboard, Members, Announcements (with a red notification dot), Maintenance-Bill (with a red notification dot), Staff, and Visitor. On the far right of the top bar are three small circular icons: a blue one, a grey one with a red notification dot, and a yellow one with a person icon. Below the navigation bar, the main content area has a title "Announcement". Underneath it, there is a section titled "Announcement" containing the text "meeting today" and "We have urgent meting tonight". At the bottom left of the main content area, there is a "Logout" link.

- Maintenance-bill: Every user Gets his own Maintenance-bill to pay.

The screenshot shows the CommuniGate application interface. The navigation bar is identical to the previous screenshot. The main content area has a title "Maintenance_Bill". Underneath it, there is a section titled "Maintainence_Bill" with a table. The table has columns for "Total Amount", "Due Date", and "Status". The "Total Amount" is listed as 700.00, the "Due Date" is 2023-10-13, and the "Status" is "Unpaid". At the bottom left of the main content area, there is a "Logout" link.

- Payment-Page: This is Payment Page After Clicking

The screenshot shows a payment page titled "CommuniGate". It displays bill details: Invoice Date: 2023-09-15, Due Date: 2023-10-13, Customer Name: Jethalal, HouseNo.: 9, Email: jethalal@gada.com, Mobile No.: 0320920302. Below this, it lists "Bill Details": Water-Bill:400, Electricity-Bill:200, Maintenance-Fee: 100. A note states "Total Amount Due: 700.00". At the bottom, a message says "Thank you for your payment!" followed by a payment method selection box with options "Cash w/ Pay" and "Mobilinkash".

COMMUNIGATE

- Staff: User can see and call staff.

The screenshot shows the CommuniGate application interface. On the left, a sidebar menu includes options like Dashboard, Members, Announcements (with a red notification dot), Maintenance-Bill, Staff, and Visitor. The 'Staff' option is selected. The main content area is titled 'Staff' and displays a profile for a user named 'Abdul'. The profile includes a small photo of a man, the name 'Abdul', the title 'shopkeper halvad', and the mobile number '9320920302'. At the top right of the main area, there are three icons: a blue circle, a bell with a red dot, and a user profile picture.

- Visitor: As You Can See Notification it is for Visitor for that user

The screenshot shows the CommuniGate application interface. The sidebar menu is identical to the previous screenshot, with 'Visitor' selected. The main content area is titled 'Visitors' and contains a table titled 'Visitors'. The table has columns for Name, Mobile No., Person to Meet, Date, and Status. The data is as follows:

Name	Mobile No.	Person to Meet	Date	Status
pinku	113434	tapu	2023-08-27	out
Jayesh	9864489644	visitor	2023-08-28	out
ladkivale	9320920302	popatal	2023-09-12	in
test	9320920302	popatal	2023-09-12	in

The URL 'localhost/cg/user/visitor.php#' is visible at the bottom of the browser window.

- Accept-Visitor: User can either accept or reject visitor.

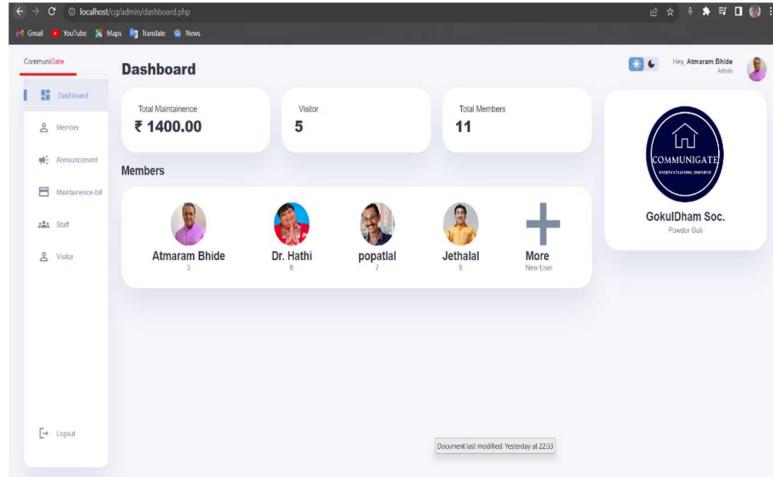
The screenshot shows the CommuniGate application interface. The sidebar menu is identical to the previous screenshots. The main content area is titled 'Visitors' and shows a confirmation message: 'Is this your visitor? sundarjal'. Below the message is a button labeled 'Yes'.

7. Software Testing

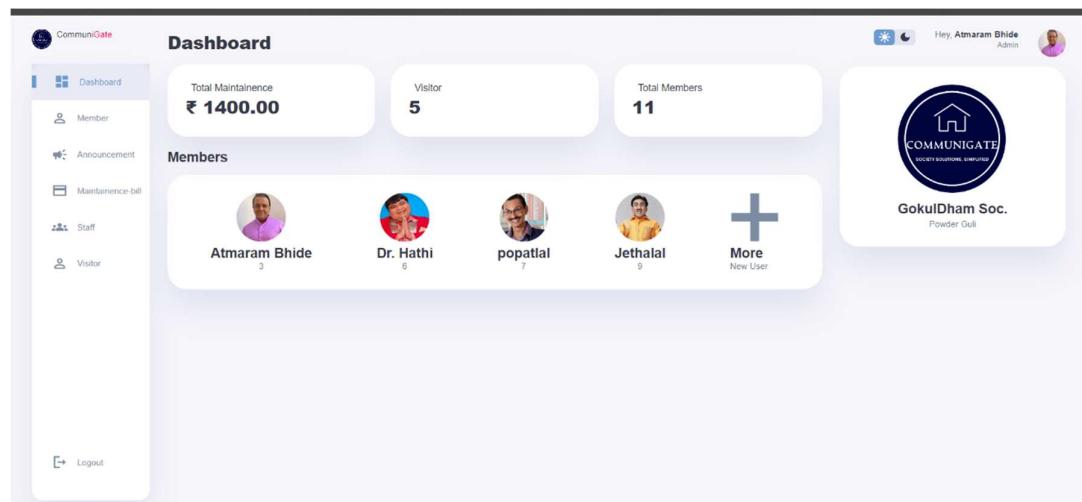
- The common view of testing is show that there is no error in a project.
- Verify the whole functionality we provide that properly works or not, such data is inserted in database or not.
- Verify the page-path we set in <a> tag is available or not.
- Verify the image and detail we want shoe to user are displayed or not.
- Check the session is properly works or not.
- Verify the user to work from image not found and details is view.
- Check the validation we put in form are work or not.
- Testing includes the verification of session management, ensuring that user sessions are established and maintained correctly.
- It involves checking user authentication, authorization, and session timeout features.

⬆ Error Pages:

- Our Error in This Page was at Sidebar Logo Image was not set:



- We Set Image Tag's Source wrong, And We resolved It by Putting Full Address of Image After That:



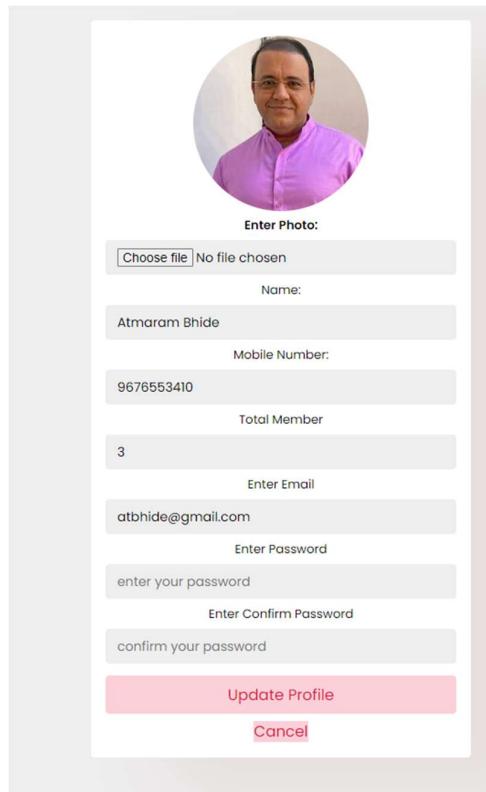
COMMUNIGATE

- Second error was the style sheet was not set properly at user detail:



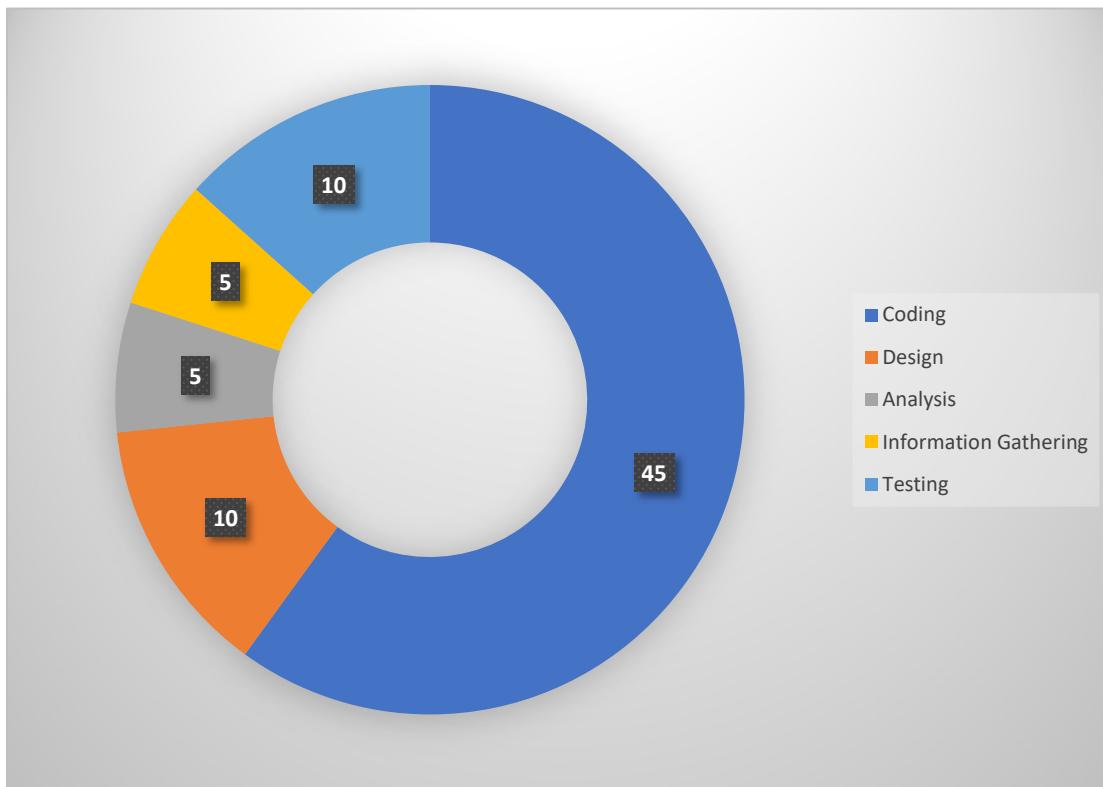
Enter Photo: Choose file No file chosen Name: Atmaram Bhide Mobile Number: 9676553410 Total Member: 3 Enter Email: atbhide@gmail.com Enter Password: enter your password Enter Confirm Password: confirm your password Update Profile Cancel

- At second error we set the link with extra “.”



Enter Photo: Choose file No file chosen
Name: Atmaram Bhide
Mobile Number: 9676553410
Total Member: 3
Enter Email: atbhide@gmail.com
Enter Password: enter your password
Enter Confirm Password: confirm your password
Update Profile
Cancel

8. Milestone:



9. References:

- www.mygate.com
- www.w3schools.com
- developer.mozilla.org