A PROJECT REPORT

ON

"Society Security Management"

Guided by:

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Developed by:

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In partial fulfillment for the award of the degree

of

BACHELOR OF COMPUTER APPLICATION

At

THE MANDVI EDUCATION SOCIETY

BBA,BCA & SCIENCE COLLEGE,MANDVI

(Affiliated To Veer Narmad South Gujarat University, Surat)

April-2024

ACKNOWLEDGEMENT

We are greatly thankful to **BBA, BCA & SCIENCE COLLEGE, MANDVI** forgiving us the opportunity to develop the project named **"Society Security Management"** undertaken during 6th semester of BCA. Then our humble thanks to all professors and all staff members of our college for the co-operation and keep interest extended by them throughout our degree course.It is the base that they have built,which sustains such good job.

Our sincere thanks to **Dr. Vimal B Mahida**,I/CPrincipal,BBA,BCA& Science College, The Mandvi Education Society, Mandvi for providing academic help throughout BCA course.

We deeply owe our gratitude to our project guide **Prof.Foram Kayasth** and other faculty members for their kind help throughout this project, which ensured that the missing pieces were found and put in place. We have no word to express our gratitude to our guides and other faculty without their moral supports and encouragement.

Last but not least, our heartfelt appreciation goes to all those not named here, but who have rendered their co-operation, little or more, directly or indirectly in the course of development of this system & preparation of this document.

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Prof. Foram Kayasth
Project Guide

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In-Charge Principal

Approved By

Examiner: _____

Ref : - MES/BCA/Project-507/2024
Date: - 01.04.2024

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Dr. Ronak Panchal,
CEO

Kinjal Panchal,
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Abstract

This project focuses on developing a Society Security Management System (SSMS) to address the security needs of residential communities. The SSMS aims to enhance security measures through features such as access control, surveillance, incident reporting, and emergency response coordination. Modern technologies such as biometric authentication and CCTV surveillance will be utilized to regulate entry points and monitor common areas. Residents will have access to a centralized platform to report security concerns, request assistance, and receive timely alerts. By implementing the SSMS, residential societies can create a safer living environment and mitigate security risks effectively.

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1.PROFILE

1.1 Project profile:

Project title	**"Society Security Management"**
Front end	PHP, HTML5, AJAX, JQUERY, JAVASCRIPT, BOOTSTRAP 4,CSS3
Back end	MYSQL 5.7
Product duration	3Months
Tools	VS CODE
Application server	XAMPP SERVER v3.3.0
Project guide	Prof.Foram Kayasth
Developed by	Chaudhari Akanksha .S. (6975) Bodhani Esha .R. (6973)
Submitted to	The Mandvi Education Society BBA,BCA&ScienceCollege,Mandvi
Year	2023-24

2.Overview of the System:

The Society Security Management System (SSMS) is a comprehensive solution designed to address the security needs of residential communities. It encompasses various components such as access control, surveillance, incident reporting, and emergency response coordination to create a safer living environment for residents.

2.1 Introduction of the System/Proposed System:

The SSMS proposes the integration of modern technologies and management strategies to enhance security measures within residential societies. By leveraging features such as biometric authentication, CCTV surveillance, and real-time communication channels, the system aims to provide proactive security solutions tailored to the specific needs of each community.

2.2 Objective of the System:

The primary objective of the SSMS is to mitigate security risks and enhance safety within residential societies. It aims to achieve this by implementing robust access control mechanisms, monitoring common areas through surveillance systems, facilitating efficient incident reporting and response procedures, and fostering a sense of security among residents.

2.3 Scope/Applicability of the Project:

The SSMS is applicable to various types of residential communities, including apartment complexes, gated communities, housing societies, and condominiums. It caters to the security needs of both small and large-scale residential developments, offering scalable solutions that can be customized based on specific requirements.

2.4 Advantages of the System:

- Enhanced Security: The SSMS improves security measures by implementing access control systems, surveillance cameras, and incident reporting mechanisms.

- Timely Response: Residents can report security concerns and request assistance through a centralized platform, enabling prompt response from security personnel.

- Proactive Risk Management: By monitoring common areas and implementing preventive measures, the system helps mitigate security risks before they escalate.

- Improved Communication: Real-time communication channels facilitate effective coordination during emergencies, ensuring timely response and resolution.

- Enhanced Resident Satisfaction: The SSMS fosters a sense of safety and security among residents, contributing to overall satisfaction and well-being within the community.

3.RESOURCE REQUIREMENT

3.1 HARDWARE SPECIFICATION

Server:

- Processor: **Intel Core i5**
- Ram: 8GB RAM.
- System Type: 64-bit Operating System, x64-based processor
  Hard disk: 1 TB

Client:

- Processor: Intel core i3.
- Ram: 4GB RAM.
- Hard disk: 160 GB

Software Requirement:

- Operating system: Windows 7 or above
- Server Platform: Web Browser
- Browser: Google Chrome, Internet Explorer, Mozilla Firefox
- Server: XAMPP Server
- PHP version: PHP 5.4.12
- MySQL version:5.6.12
- Tools: phpMyAdmin

3.2 ABOUT TECHNOLOGY :

WHAT IS PHP?

PHP, which stands for "Hypertext Pre-processor", is a server-side, HTML embedded scripting language used to create dynamic Web pages. Much of its syntax is borrowed from C, Java and Perl with some unique features thrown in. The goal of the language is to allow Web developers to write dynamically generated pages quickly.

In an HTML page, PHP code is enclosed within special PHP tags. When a visitor opens the page, the server processes the PHP code and then sends the output (not the PHP code itself) to the visitor's browser. It means that, unlike JavaScript, you don't have to worry that someone can steal your PHP script.

Features Of PHP

- Standard CGI, Fast CGI And Apache Module Support –

As A Standard CGI Program, PHP Can Be Installed On Any UNIX Machine Running Any UNIX Web Server. With Support For The New Fast CGI Standard, PHP Can Take Advantage Of The Speed Improvements Gained Through This Mechanism. As An Apache Module, PHP Becomes An

Extremely Powerful And Lightning Fast Alternative To CGI Programming.

- Access Logging –

With The Access Logging Capabilities Of PHP, Users Can Maintain Their Own Hit Counting And Logging. It Does Not Use The System's Central Access Log Files In Any Way And It Provides Real-Time Access Monitoring. The Log
Viewer Script Provides A Quick Summary Of The Accesses To A Set Of Pages Owned By An Individual User. In Addition To That, The Package Can Be Configured To Generate A Footer On Every Page Which Shows Access Information. See The Bottom Of This Page For An Example Of This.

- Access Control –

A Built-In Web-Based Configuration Screen Handles Access Control
Configuration. It Is Possible To Create Rules For All Or Some Web Pages
Owned By A Certain Person Which Place Various Restrictions On Who Can
View These Pages And How They Will Be Viewed. Pages Can Be Password Protected, Completely Restricted, Logging Disabled And More Based On The Client's Domain, Browser, E-Mail Address Or Even The Referring Document.

- Postgressql Support –

Postgressql Is An Advanced Free RDBMS. PHP Supports

Embedding
Postgressql "SQL Queries" Directly In .Html Files.

MySQL Support

MySQL Is an Advanced Free RDBMS. PHP Supports Embedding MySQL "SQL Queries" Directly In .HTML Files.

Overview of MySQL

The MySQL Pluggable Storage Engine Architecture Enables A Database Professional to Select A Specialized Storage Engine for A Particular Application Need While Being Completely Shielded from The Need to Manage Any Specific Application Coding Requirements. The MySQL Server
Architecture Isolates the Application Programmer and DBA from All of The
Low-Level Implementation Details At The Storage Level, Providing A Consistent And Easy Application Model And API. Thus, Although There Are Different Capabilities Across Different Storage Engines, The Application Is Shielded from These Differences.

• MySQL Architecture with Pluggable Storage Engines the MYSQL database has become the world's most popular open source database because of its high performance, high reliability and ease of use. MYSQL runs on more than 20 platforms. It development history has always been characterized by a clear-eyed focus on the most important attributes of a good RDBMS: speed and stability.

This is the most traditional and main target field for PHP. You need three things to make this work.
The PHP parser (CGI or server module), a web server and a web browser. You need to run the web server, with a connected PHP installation. You can access the PHP program output with a web browser, viewing the PHP page through the server. All these can run on your home machine if you are just experimenting with PHP programming.

MY SQL

1. Scalability and Flexibility
2. High Performance
3. High Availability
4. Robust Transactional Support
5. Web and Data Warehouse strengths
6. Strong data protection
7. Comprehensive Application development
8. Easy Management
9. Open source freedom and 24*7 support
10. Lowest Total cost of ownership

HTML5

HTML5 is the next major revision of the HTML standard superseding HTML 4.01, XHTML 1.0, and XHTML 1.1. HTML5 is a standard for structuring and presenting content on the World Wide Web.

HTML5 is a cooperation between the World Wide Web Consortium (W3C) and the Web Hypertext Application Technology Working Group (WHATWG).

The new standard incorporates features like video playback and drag-and-drop that have been previously dependent on third-party browser plug-ins such as Adobe Flash, Microsoft Silverlight, and Google Gears.

AJAX

Ajax stands for "Asynchronous JavaScript and XML". JavaScript includes features of sending asynchronous http request using XMLHttpRequest object. Ajax is about using this ability of JavaScript to send asynchronous http request and get the xml data as a response (also in other formats) and update the part of a web page (using JavaScript) without reloading or refreshing entire web page.

JQUERY

jQuery is a fast and concise JavaScript Library created by John Resig in 2006 with a nice motto: **Write less, do more**. jQuery simplifies HTML document traversing, event handling, animating, and Ajax interactions for rapid web development. jQuery is a JavaScript toolkit designed to simplify various tasks by writing less code.

JAVASCRIPT

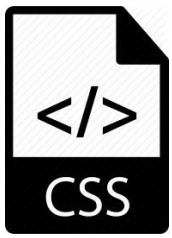
JavaScript is a cross-platform, object-oriented scripting language used to make webpages interactive (e.g., having complex animations, clickable buttons, popup menus, etc.). There are also more advanced server side versions of JavaScript such as Node.js, which allow you to add more functionality to a website than downloading files (such as realtime collaboration between multiple computers). Inside a host environment (for example, a web browser), JavaScript can be connected to the objects of its environment to provide programmatic control over them.

BOOTSTRAP

Boosted includes several components and options for laying out your project, including wrapping containers, a powerful flexbox grid system, a flexible media object, and responsive utility classes.

Contents

- Containers
- Responsive breakpoints



CSS

Cascading Style Sheets, fondly referred to as CSS, is a simply designed language intended to simplify the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each web page.

CSS 3

CSS3 is the latest evolution of the Cascading Style Sheets language and aims at extending CSS2.1. It brings a lot of new features and additions, like rounded

corners, shadows, gradients, transitions or animations, as well as new layouts like multi-columns, flexible box or grid layouts.

Overview Of XAMPP (Cross-platform, Apache, MariaDB(Mysql), PHP and Perl)

XAMPP is a small and light Apache distribution containing the most common web development technologies in a single package. Its contents, small size, and portability make it the ideal tool for students developing and testing applications in PHP and MySQL.

XAMPP is available as a free download in two specific packages:full and lite.

While the full package download provides a wide array of development tools,
XAMPP Lite contains the necessary technologies that meet the Ontario Skills Competition standards.The light version is a small package containing Apache HTTP Server, PHP, MySQL, phpMyAdmin, Openssl, and SQLite.

4. SYSTEM ANALYSIS

4.1 Feasibility Study:

All Projects are feasible, Provided that unlimited resource and infinite time available. However, in real world that can should like dream. Especially computer system is likely to be bounded by limited resources as well as time. Feasibility and risk are related in many ways. If the risk is great then feasibility of producing quality software is reduced. During system engineering on three primary areas of interest.

4.2.1 Economic feasibility

In this project, we will require to not purchasing much of the tools like web cameras to take the photography of a person or shut video of that society, but as it will be web-enabled we do not have any extra cost of setting up a network. This is also feasible economically.

BENEFITS-

- Very high levels of readily available information.
- Providing information of Businesses.
- Very interactive user experience.
- Providing a lesser work environment.
- Providing a list of availability of vehicles and drivers electronically.

- Providing electronically generating reports.
- Providing an easiest way to manage all the company's information.

4.2.2 Technical feasibility

This project does require that much of higher & advance technology. It requires database interaction and it requires to be access via web or internet. This can be easily done. It must be developed within the four months of period excluding the time period for the testing and validation, verification. Thus, it seems that the project is technically feasible to do.

4.2.3 Behavioural feasibility

It includes how strong the reaction of staff will be towards the development of new system that involves computer's use in their daily work. So resistant to change is identified.After feasibility study

feasibility report is prepared and submitted to the management.

Our project guide – Prof.Foram Kayasth guided us to take proper care and check for the operational feasibility of the system.

Effort were made to optimize the human efforts in data collection storages,retrieval, security and presentation.

The proposed system made best efforts in achieving necessary function and performance as require by the user and keeping in mind infrastructure constraints.

4.2 Timeline Chart

Task	1	2	3	4	5	6	7	8
Requirement Gathering								
Collected details from developed sites								
Analysed gathered information								
Determine the scope of the system								
Milestone: Req. gathering completed								
Planning								
Basic flow and structure								
Determined different modules								
Milestone: Planning completed								
Designing								
Basic Interface design								
Database Design								
Design web forms and modules								
Milestone: Designing Completed								
Risk Analysis								
Milestone: Risk Analysis Completed								
Coding and Integrating modules								
Implement logic for diff modules								
Integrating code with backend								
Integrating dependent modules								
Milestone: Coding completed								
Finalize the developed system								

Milestone: Finalized								

5. SYSTEM DESIGN

5.1 Data Dictionary :

1) PROJECT REGISTER:

Name	Project_Register
Alias Name	Pr
Where to use	Use to store information about register project.
Supplement Information	project_register = sid + cid + pid + name + address + location + bannerimage + tproperty + tmember + president + number + emailaddress + status + lastlogin
Description	New societies are registered by filling necessary information

2) ADMIN:

Name	Admin
Alias Name	Ad
Where to use	For registration of project,admin has to login
Supplement Information	Admin=emailaddress with otp
Description	Web-user And Admin Can Login With Valid Email Address And OTP And Redirect To Their Respective Profile.

3) STATE:

Name	State
Alias Name	St
Where to use	Use to store information about state.
Supplement Information	State=sid+name
Description	Whenever Admin registers the Project,The State Is to be added in Project Detail

4) WORKER TYPE:

Name	Worker_Type
Alias Name	Wt
Where to use	Use to store information about workers type.
Supplement Information	Worker_type=wtid+type
Description	Admin Inserts the Worker type Which Comes to the society,daily or as per the request of the member

5) CITY:

Name	City
Alias Name	Ci
Where to use	Use to store information about City.
Supplement Information	City=sid+cid+name
Description	Whenever Admin registers the Project, City Is to be added in Project Detail

6) BILL:

Name	Bill
Alias Name	Bi
Where to use	Use to store information about Bill which are generated yearly for the Admin(Wellconnect).
Supplement Information	Bill=pid+bid+details+date+amount+discount+finalamount +paymode+tid
Description	Whenever a new society is added,a new Bill is generated

7) MEMBER MAINTENANCE:

Name	Member_Maintenance
Alias Name	Mm
Where to use	Use to store information about Member's Maintenance for the society.
Supplement Information	Member_Maintenance=membered+mmid+fromdate +to_date+amount
Description	Whenever the Member pays the Maintenance for the society,it is displayed under this section

8) WORKER

Name	Worker
Alias Name	Wo
Where to use	Use to store information about Workers.
Supplement Information	Worker=reference+presubprefkid+wtid+wid+name +contact+proof+photo
Description	Here workers informations are stored

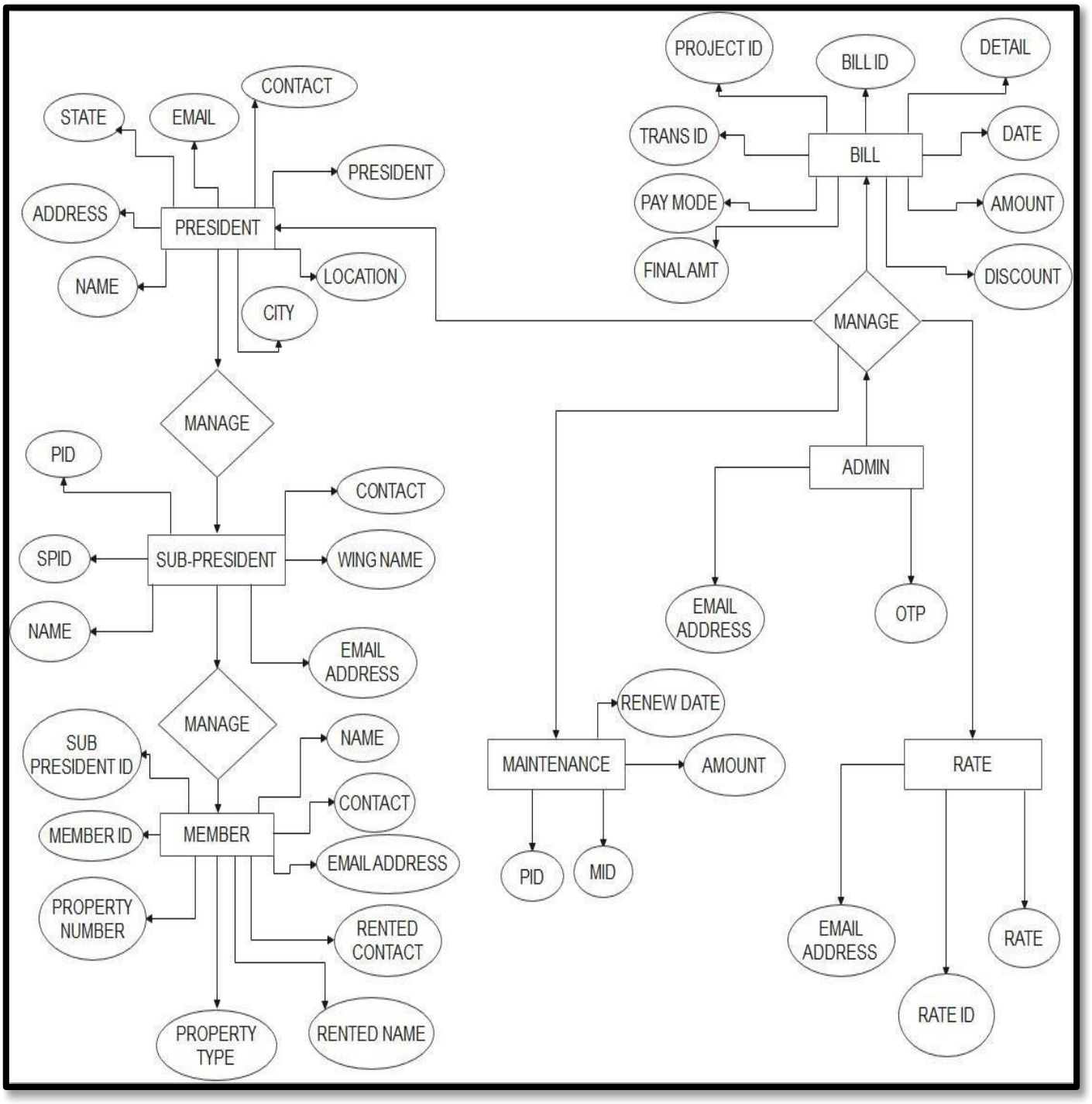
9) RATE

Name	Rate
Alias Name	Rt
Where to use	Use to store information about rating received for services of Wellconnect.
Supplement Information	Rate=emailaddress+rateid+rate
Description	The rating which are done by society for the services of Wellconnect are displayed here

10) RULES

Name	Rules
Alias Name	Rul
Where to use	Use to store information about rules for the society
Supplement Information	Rules=pid+rid+rules_message
Description	The Common Rules Of The Society are decided by President

5.2 ER DIAGRAM


PROJECT ID
BILL ID
DETAIL
CONTACT
STATE
EMAIL
TRANS ID
BILL
DATE
PRESIDENT
ADDRESS
PRESIDENT
PAY MODE
AMOUNT
NAME
LOCATION
FINAL AMT
DISCOUNT
CITY
MANAGE
MANAGE
PID
ADMIN
CONTACT
SPID
SUB-PRESIDENT
WING NAME
EMAIL ADDRESS
OTP
NAME
EMAIL ADDRESS
RENEW DATE
MANAGE
SUB PRESIDENT ID
NAME
MAINTENANCE
AMOUNT
RATE
CONTACT
MEMBER ID
MEMBER
EMAIL ADDRESS
PID
MID
PROPERTY NUMBER
RENTED CONTACT
EMAIL ADDRESS
RATE
RATE ID
PROPERTY TYPE
RENTED NAME

Data Flow Diagram:

- Data Flow Diagram is a graphical aid for defining systems inputs, processes and outputs.
- Data Flow Diagram is a pictorial representation which shows how the data passes from various stages one by one during the processing.
- DFD has some undefined symbols using which we can denote input, output, data flow and storing database files. Like, rectangle for input and output, circle for processing, arrow for data flow and one-sided opened rectangle for storing files. And to continue flow small circle is used. Thus, after understanding data flow diagram we can create general overview about the current system processing.

The DFDS are used in modern method of System Analysis.
DFDS serve two purpose:

- Provide a graphics tool which can be used by the analyst to explain his understanding of the system to the user.
- They can be readily converted into a structured chart which can be used in design.

Symbols used in DFDS:

Most DFDS use four types of symbols which represent system components such as:

- External Entity

- Processes
- Data Flows
- Data Stores

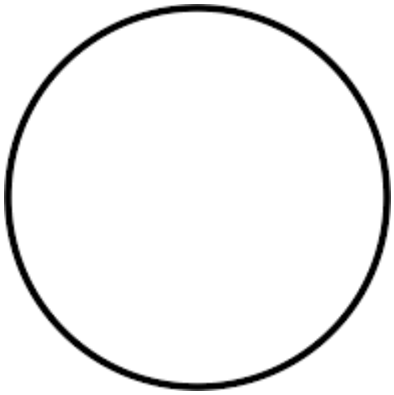
- External entity:

A Rectangle represents an external entity. It represents the source anddestination of the System data

.

- Processes:

The circles represent a process. It used for transform incoming or outgoingdata.

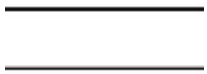


- A Data Flow:

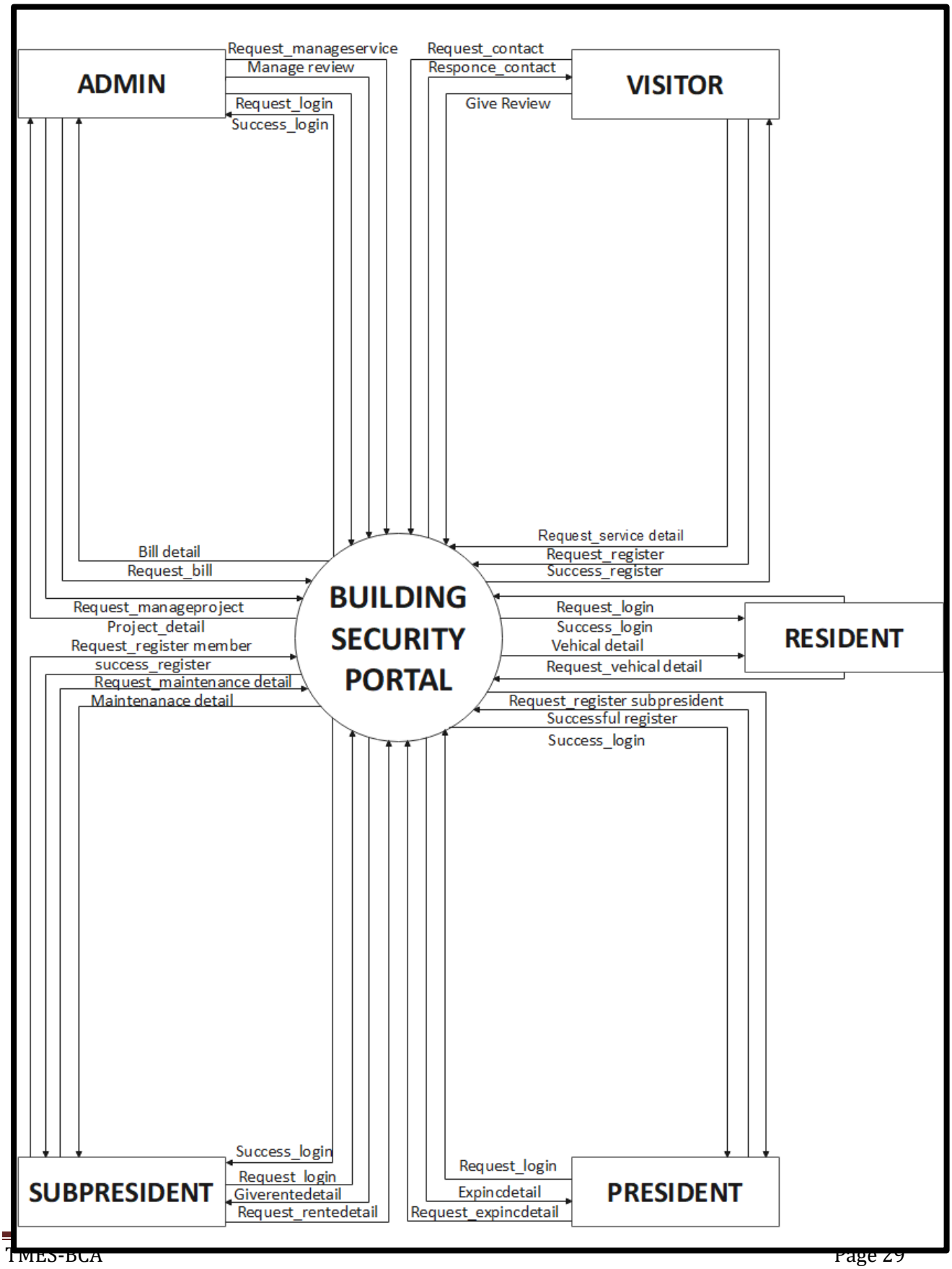
The Arrow head indicates the direction of the data flow. An Arrow represents adata item or a collection of data item.

- A Data Store:

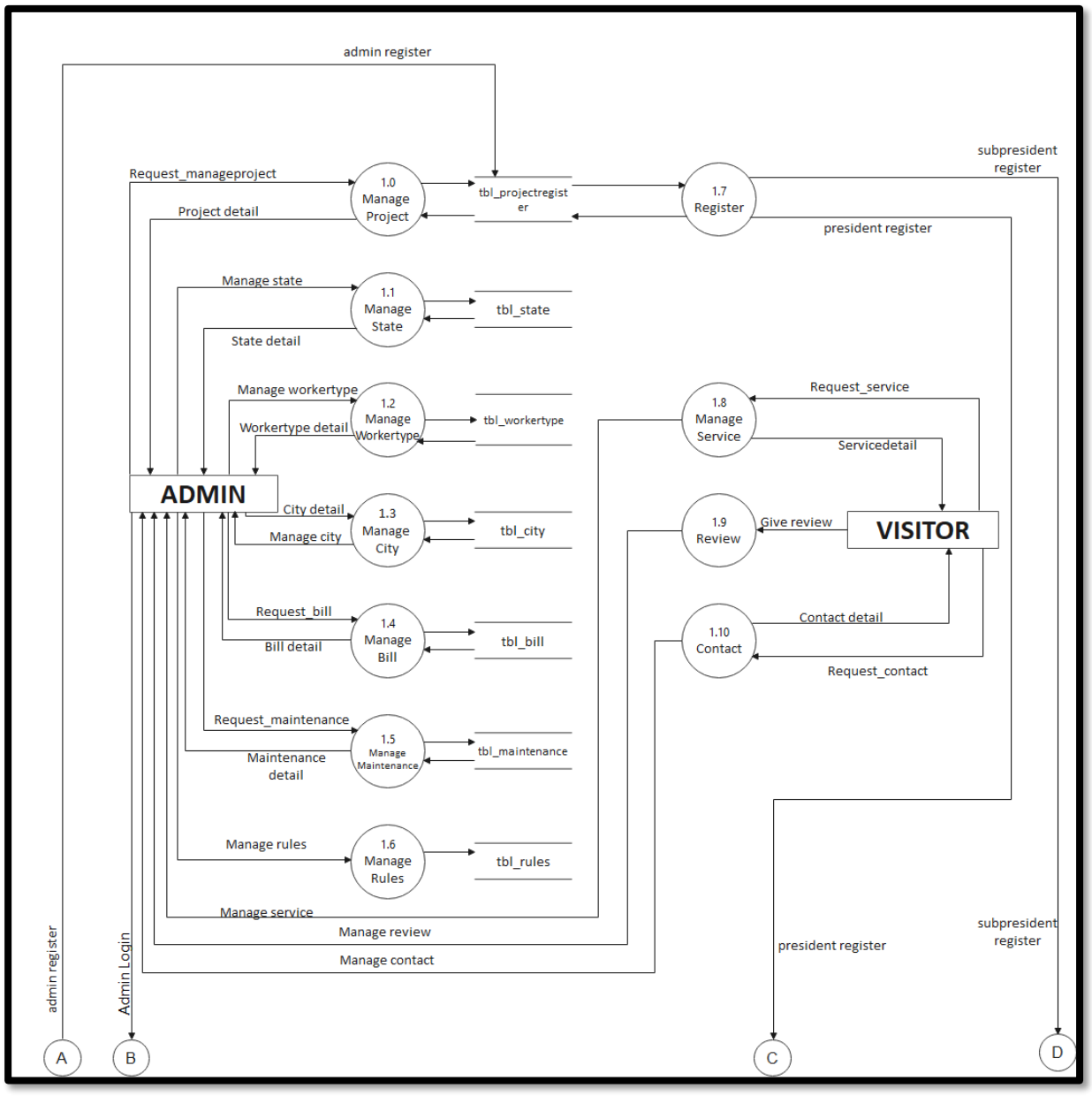
These two lines are representing a Data Store. A Data Store represents the tablename or view.



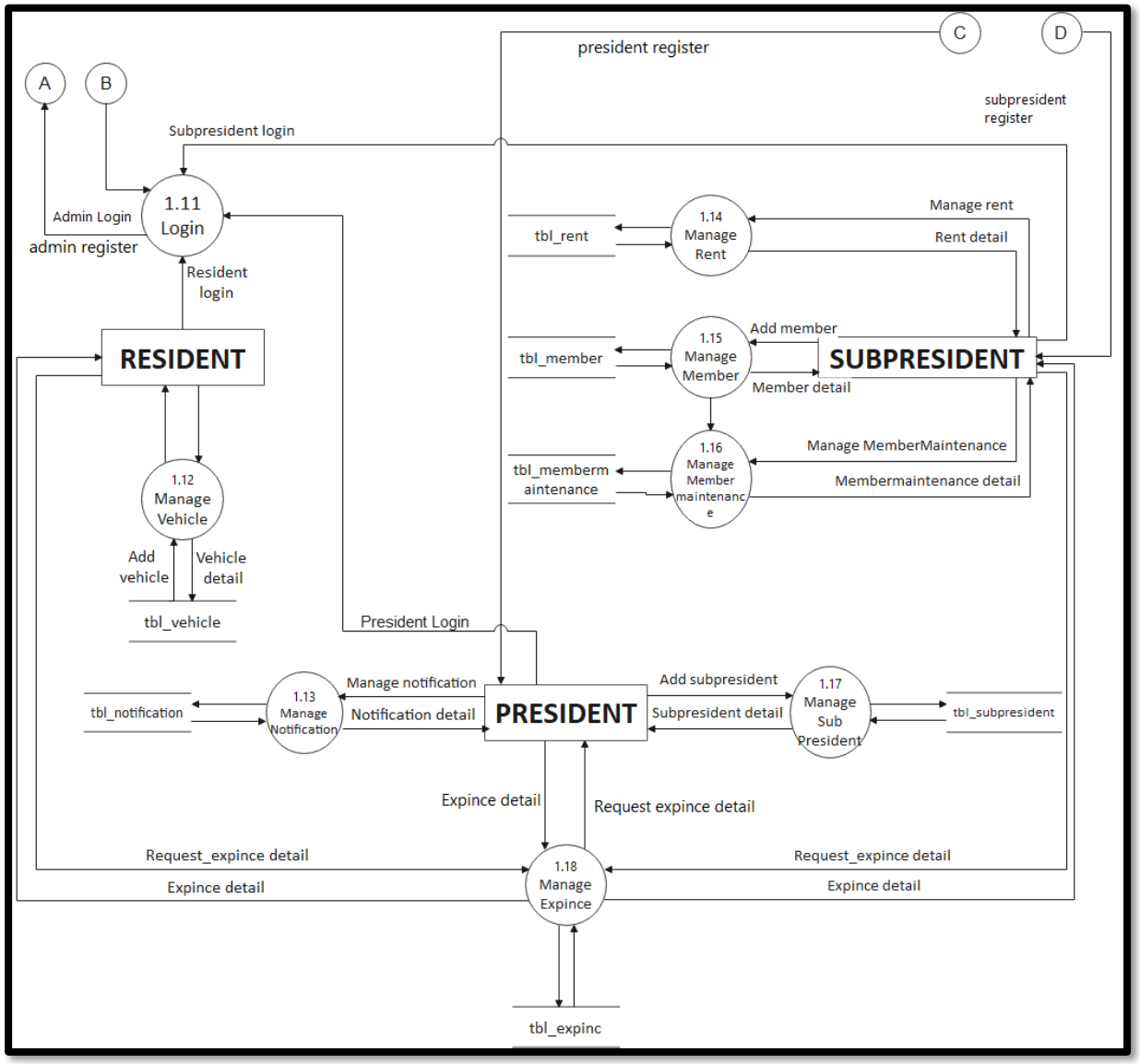
Context Level DFD:



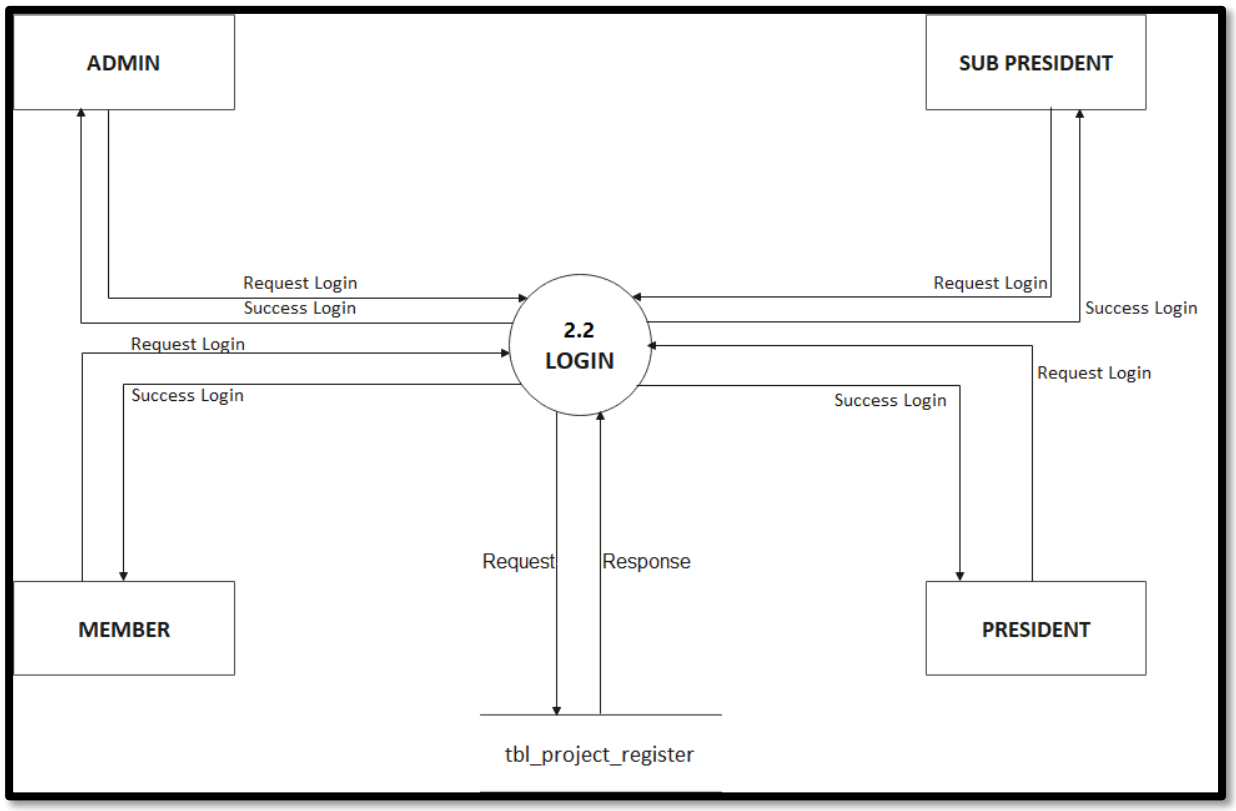
1ST Level(1.1)


admin register
Request_manageproject
1.0
Manage
Project
Project detail
tbl_projectregist
er
1.7
Register
subpresident
register
president register
Manage state
1.1
Manage
State
tbl_state
State detail
Manage workertype
1.2
Manage
Workertype
tbl_workertype
Workertype detail
1.8
Manage
Service
Request_service
Servicedetail
ADMIN
City detail
1.3
Manage
City
tbl_city
Manage city
1.9
Review
Give review
VISITOR
Request_bill
1.4
Manage
Bill
tbl_bill
Bill detail
1.10
Contact
Contact detail
Request_contact
Request_maintenance
1.5
Manage
Maintenance
tbl_maintenance
Maintenance
detail
Manage rules
1.6
Manage
Rules
tbl_rules
Manage service
Manage review
Manage contact
president register
subpresident
register
admin register
Admin Login
A
B
C
D

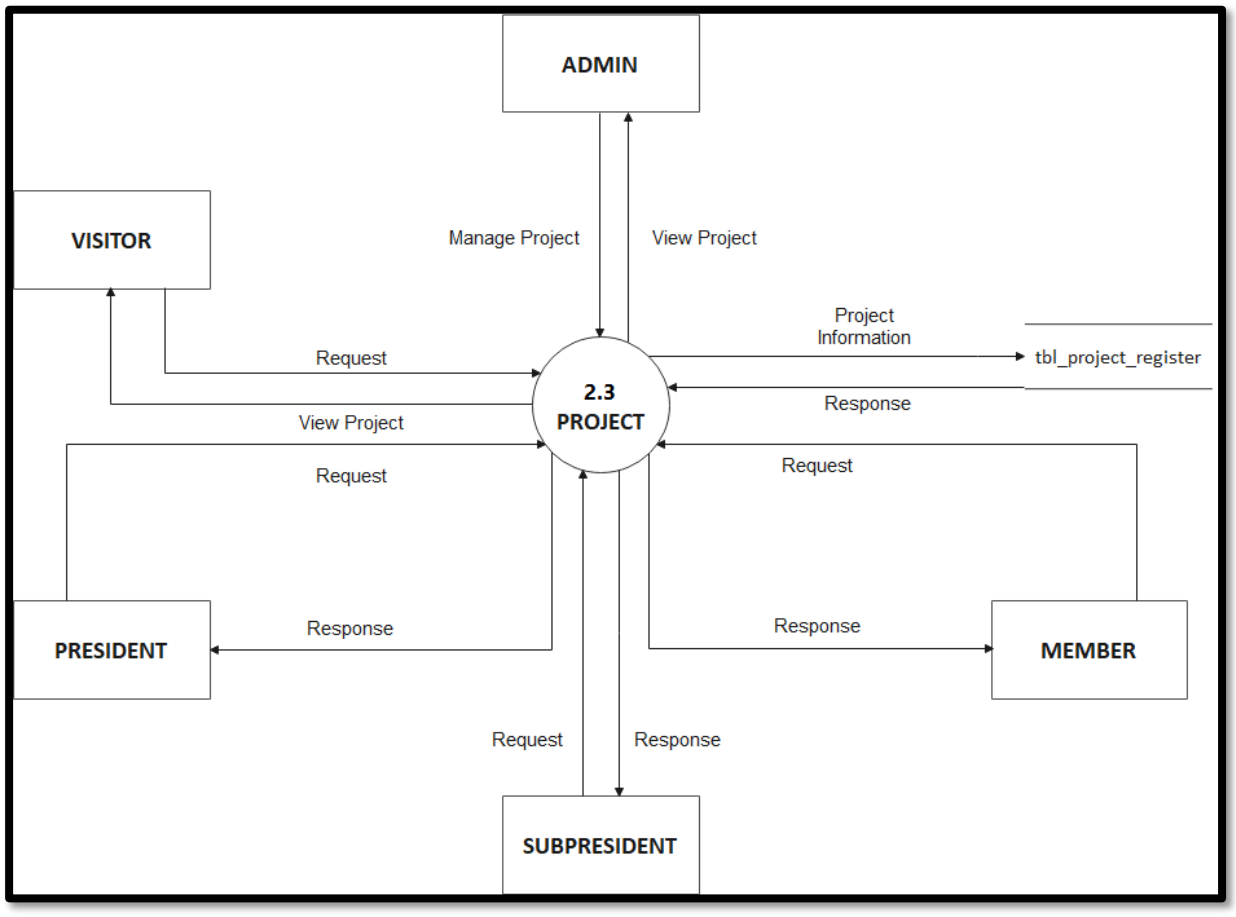
Level(1.2)


A
B
C
D
president register
subpresident register
Subpresident login
Admin Login
admin register
1.11 Login
Resident login
RESIDENT
1.12 Manage Vehicle
Add vehicle
Vehicle detail
tbl_vehicle
President Login
tbl_rent
1.14 Manage Rent
Manage rent
Rent detail
tbl_member
1.15 Manage Member
Add member
Member detail
SUBPRESIDENT
tbl_memberm aintenance
1.16 Manage Member maintenanc e
Manage MemberMaintenance
Membermaintenance detail
tbl_notification
1.13 Manage Notification
Manage notification
Notification detail
PRESIDENT
Add subpresident
Subpresident detail
1.17 Manage Sub President
tbl_subpresident
Expince detail
Request expince detail
Request_expince detail
Expince detail
1.18 Manage Expince
Request_expince detail
Expince detail
tbl_expinc

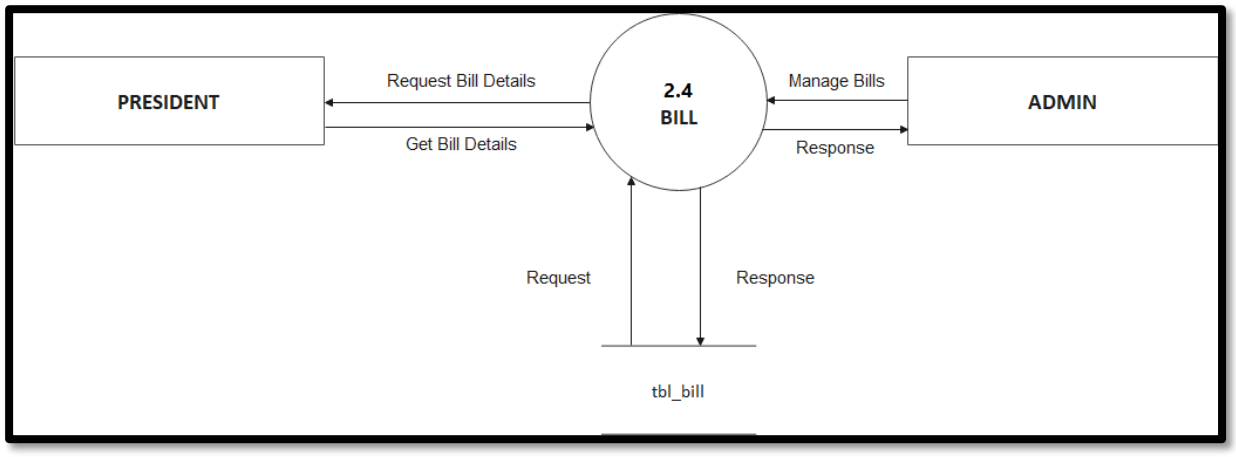
2nd Level DFD(2.2):



2nd Level DFD(2.3):



2nd Level DFD(2.4):



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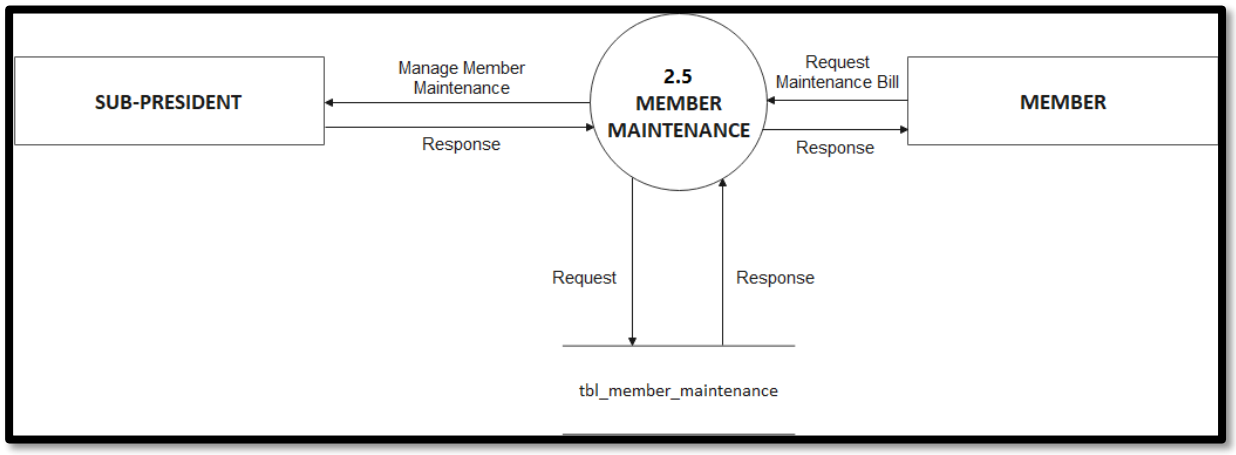

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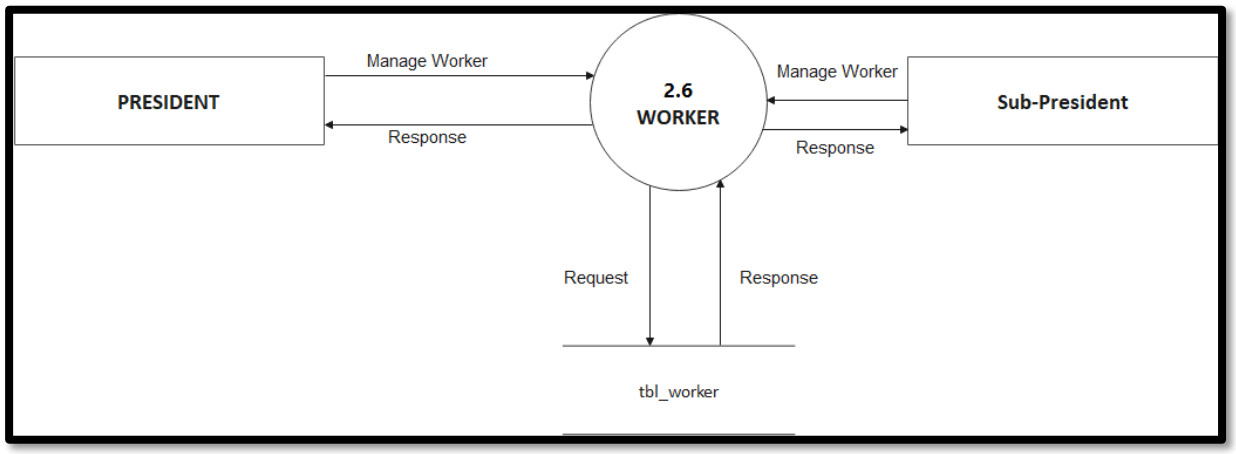

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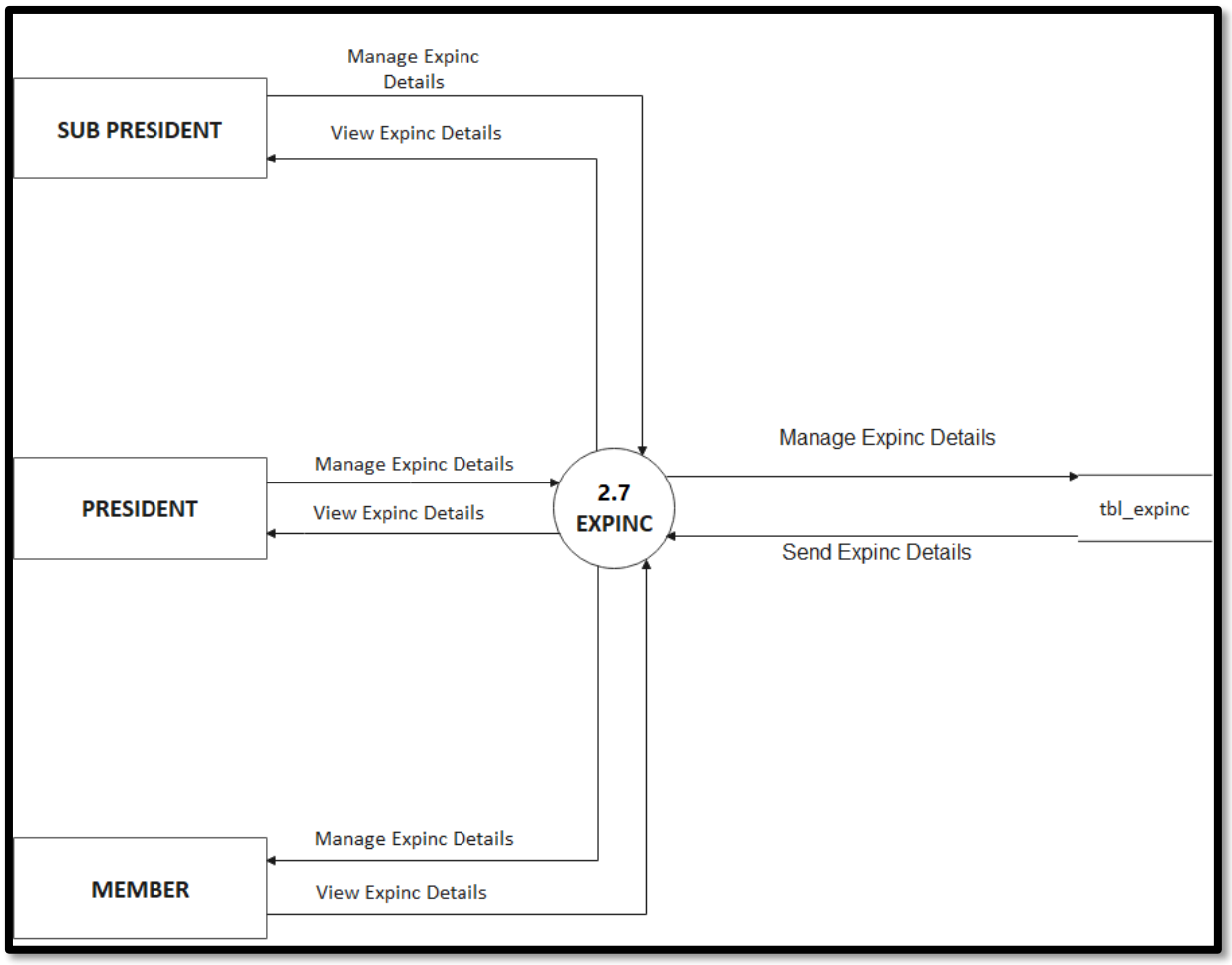
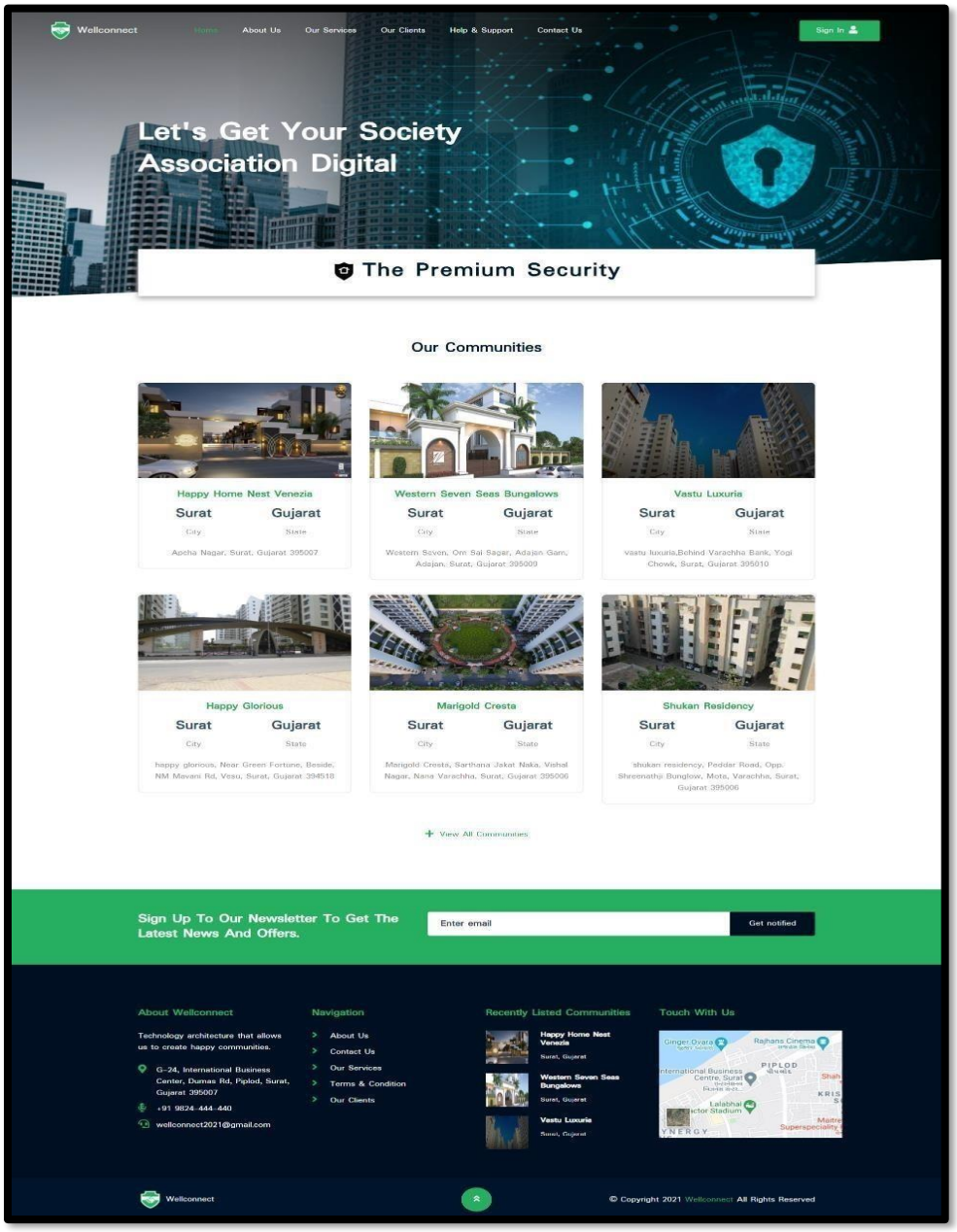


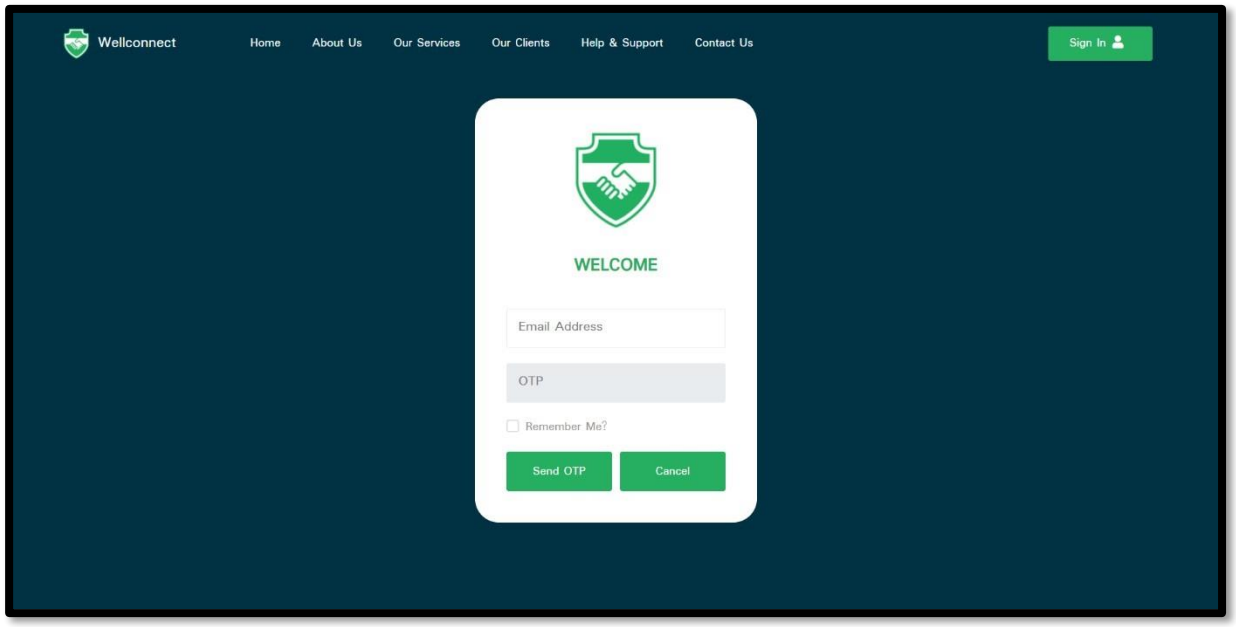
6.SCREEN LAYOUT

HOME PAGE

THIS IS THE HOME PAGE OF WELLCONNECT

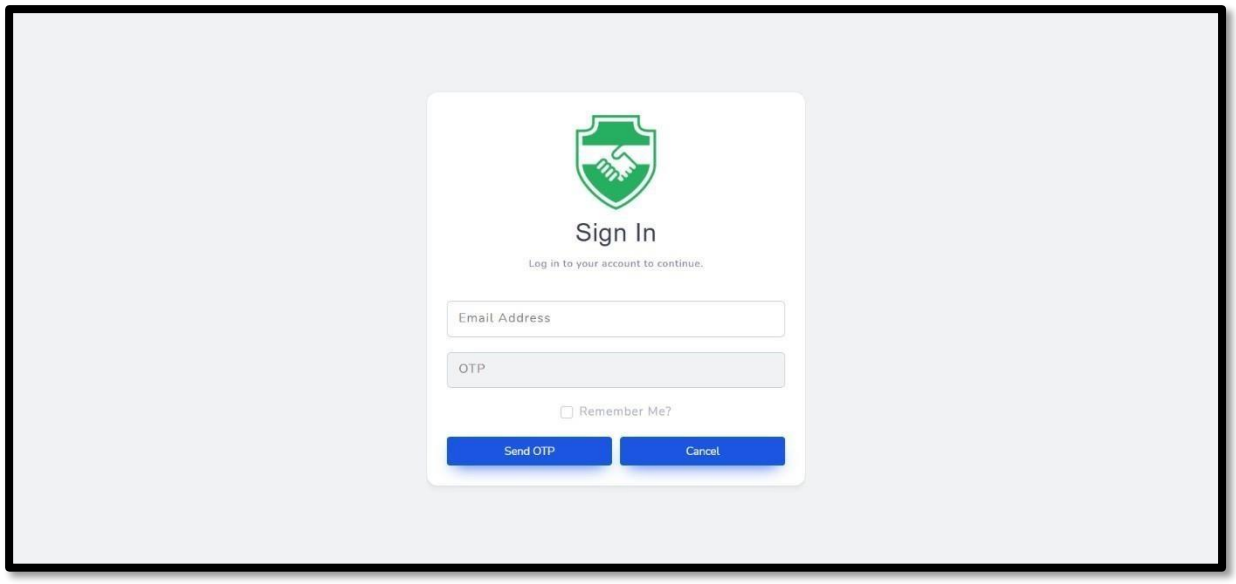


LOGIN PAGE



PRESIDENT , SUB-PRESIDENT & MEMBER CAN LOGIN FROM HERE

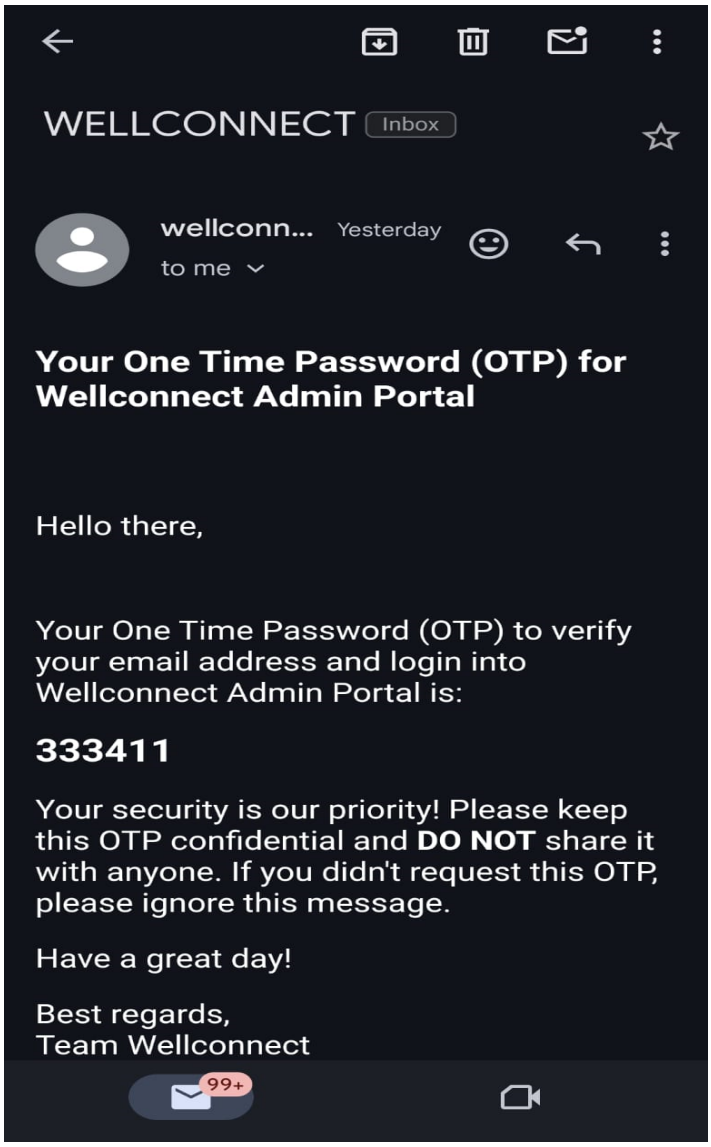
ADMIN LOGIN PAGE



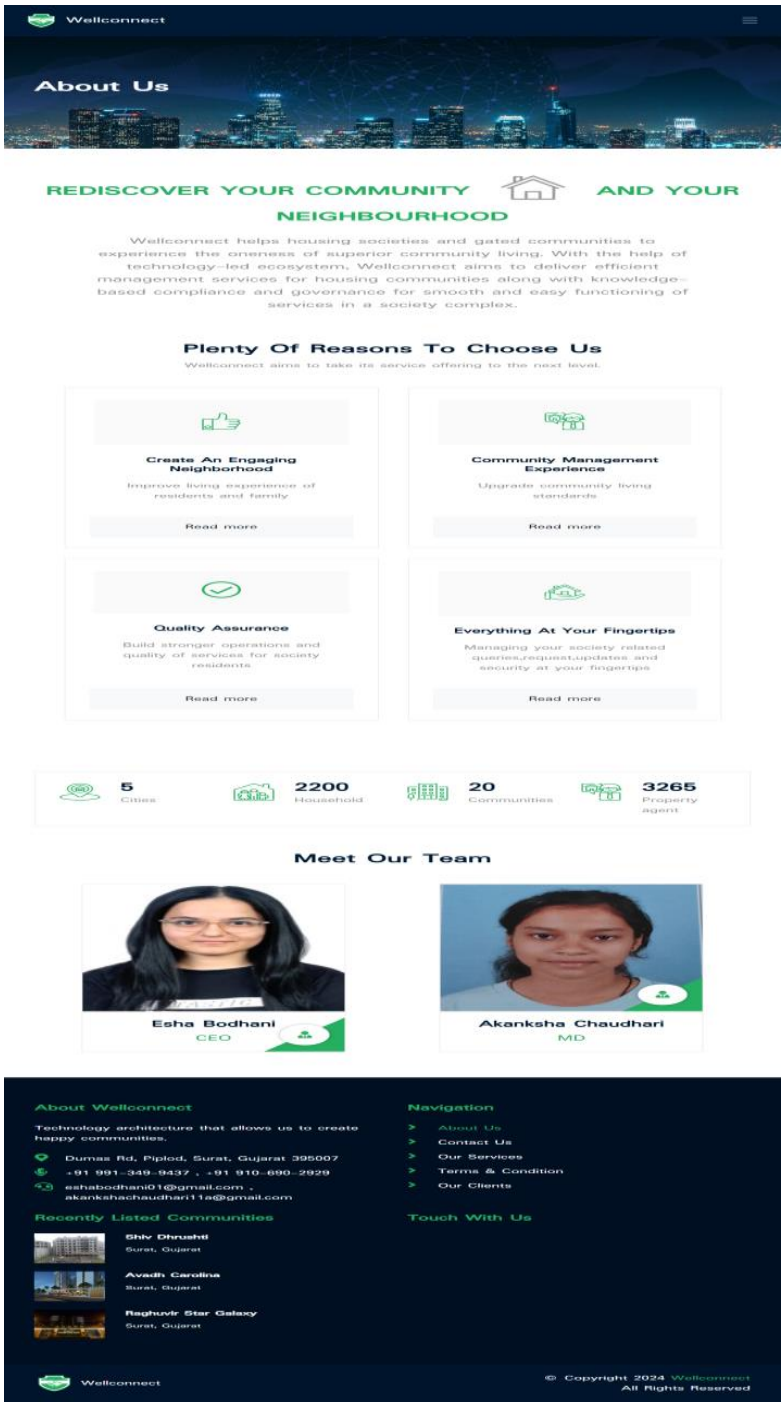
.

ADMIN CAN LOGIN FROM HERE

LOGIN EMAIL OTP

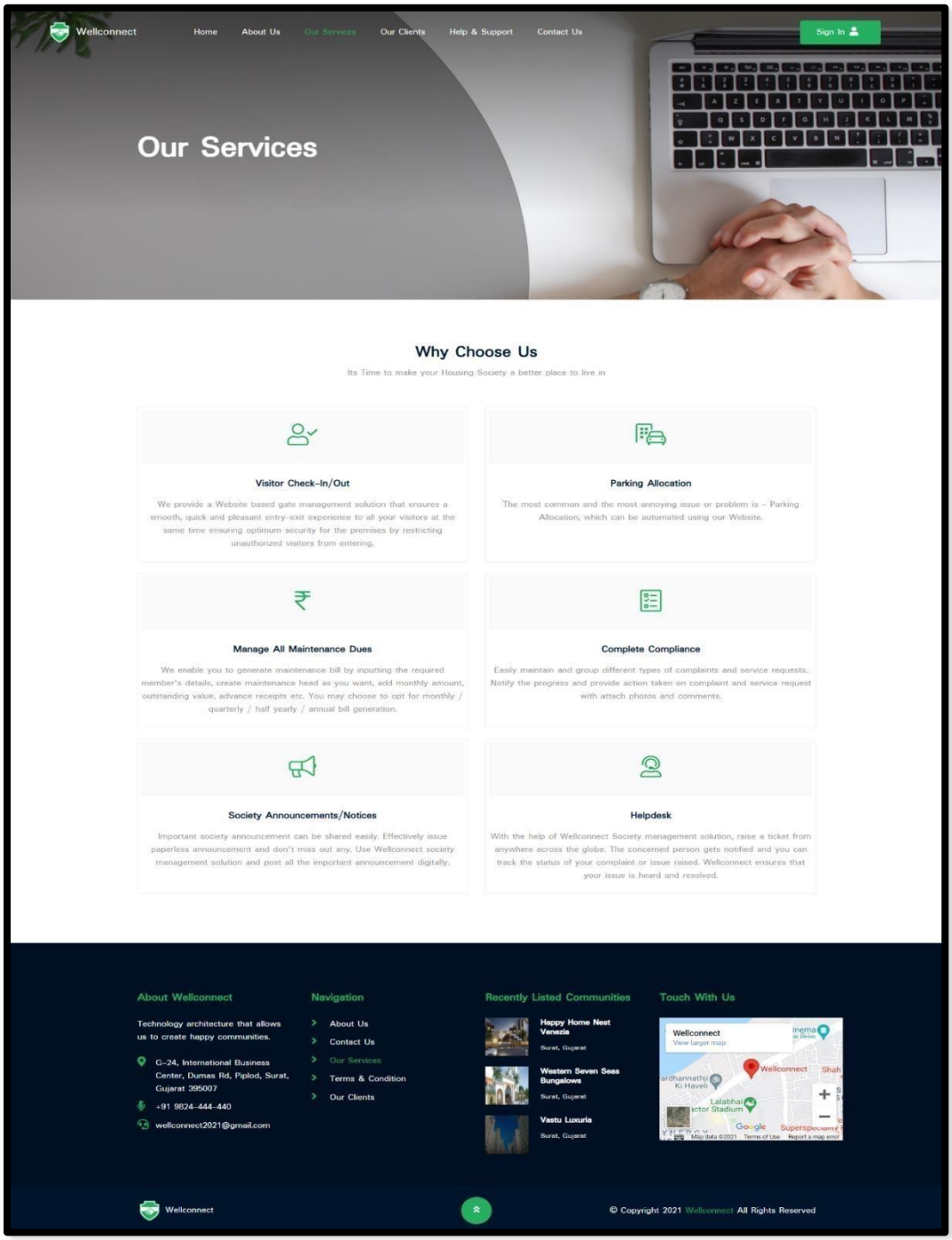


ABOUT US PAGE



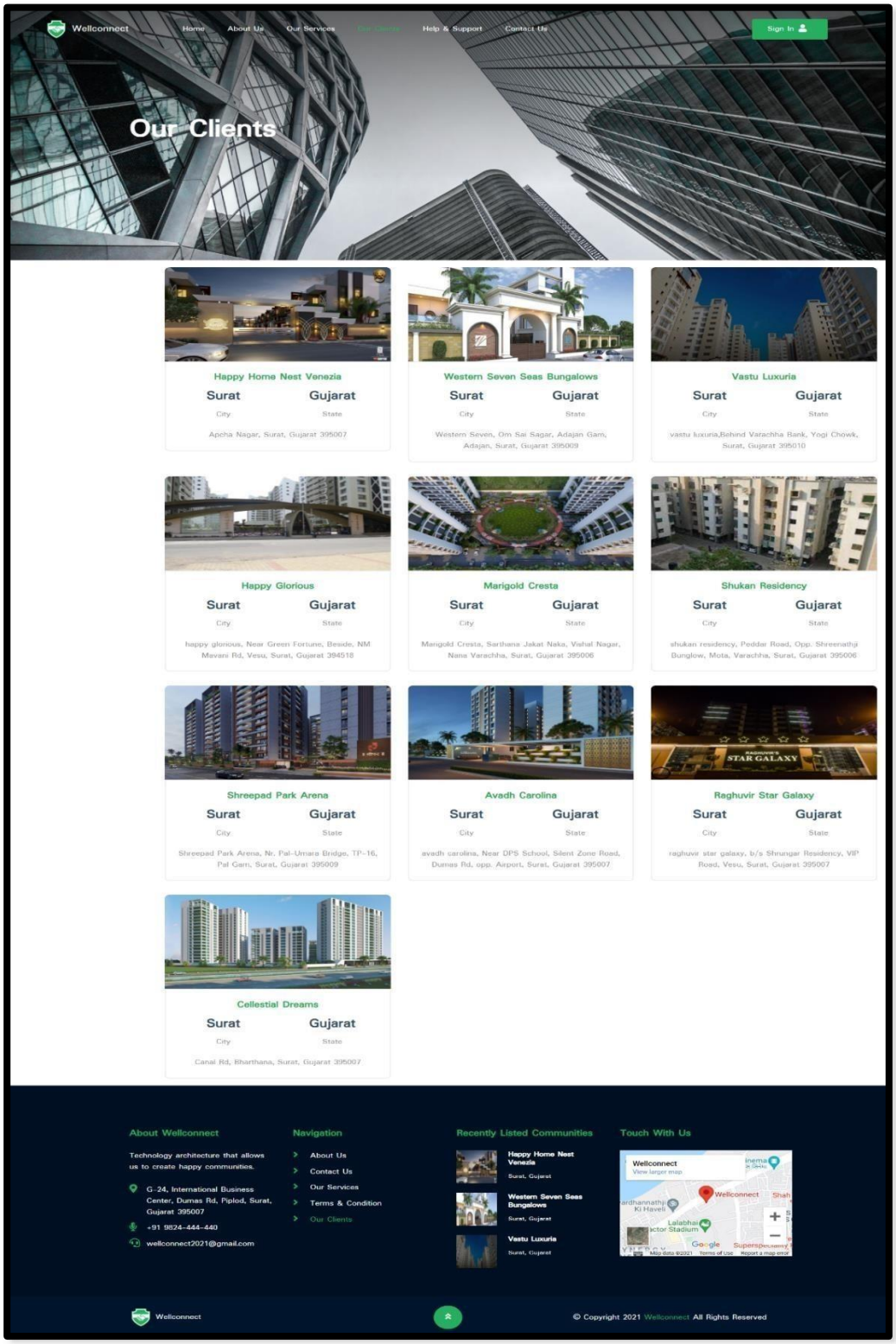
ABOUT US PAGE

OUR SERVICES



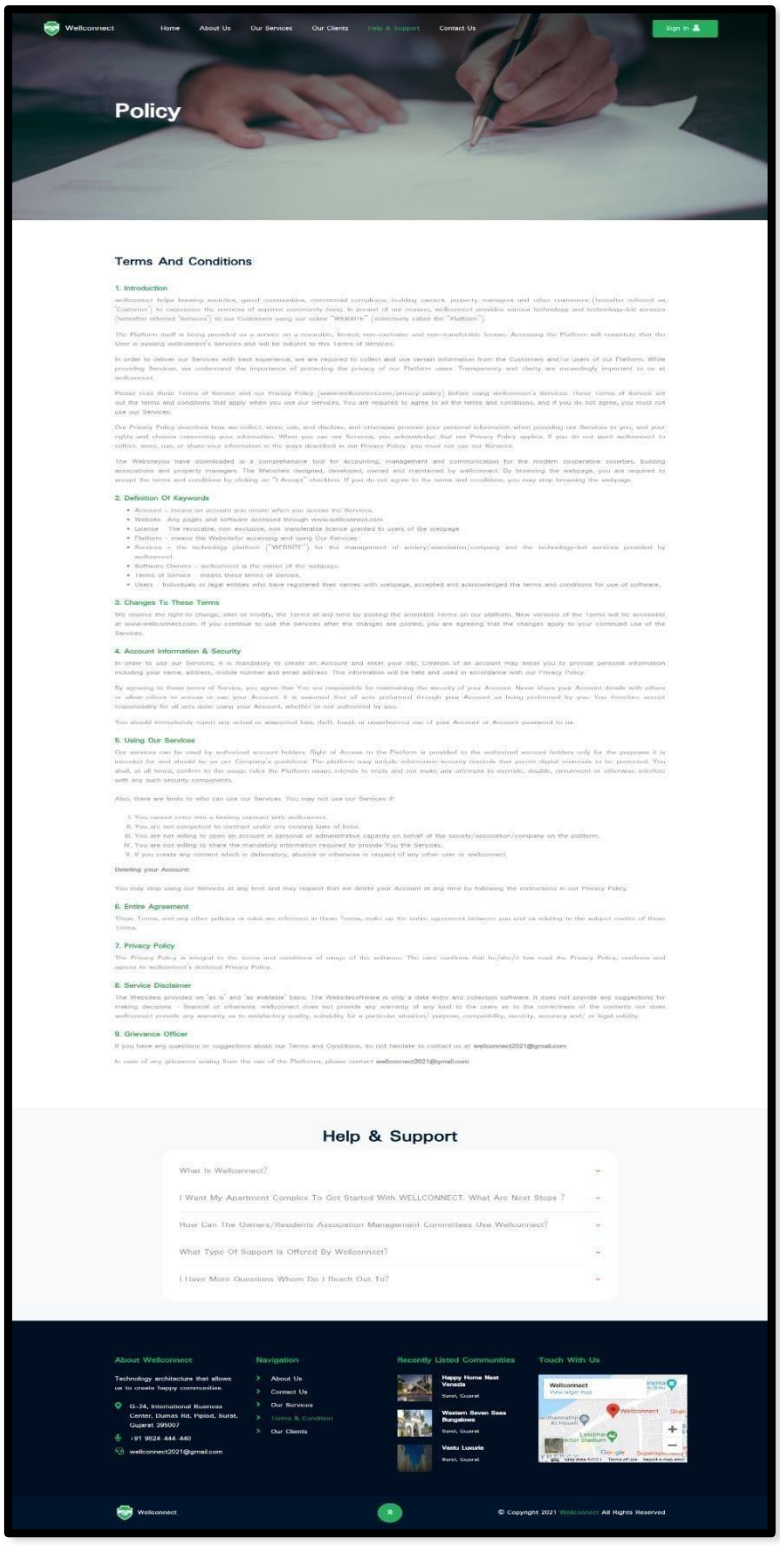
THE SERVICES PROVIDED BY WELLCONNECT ARE LISTED HERE

OUR CLIENTS:



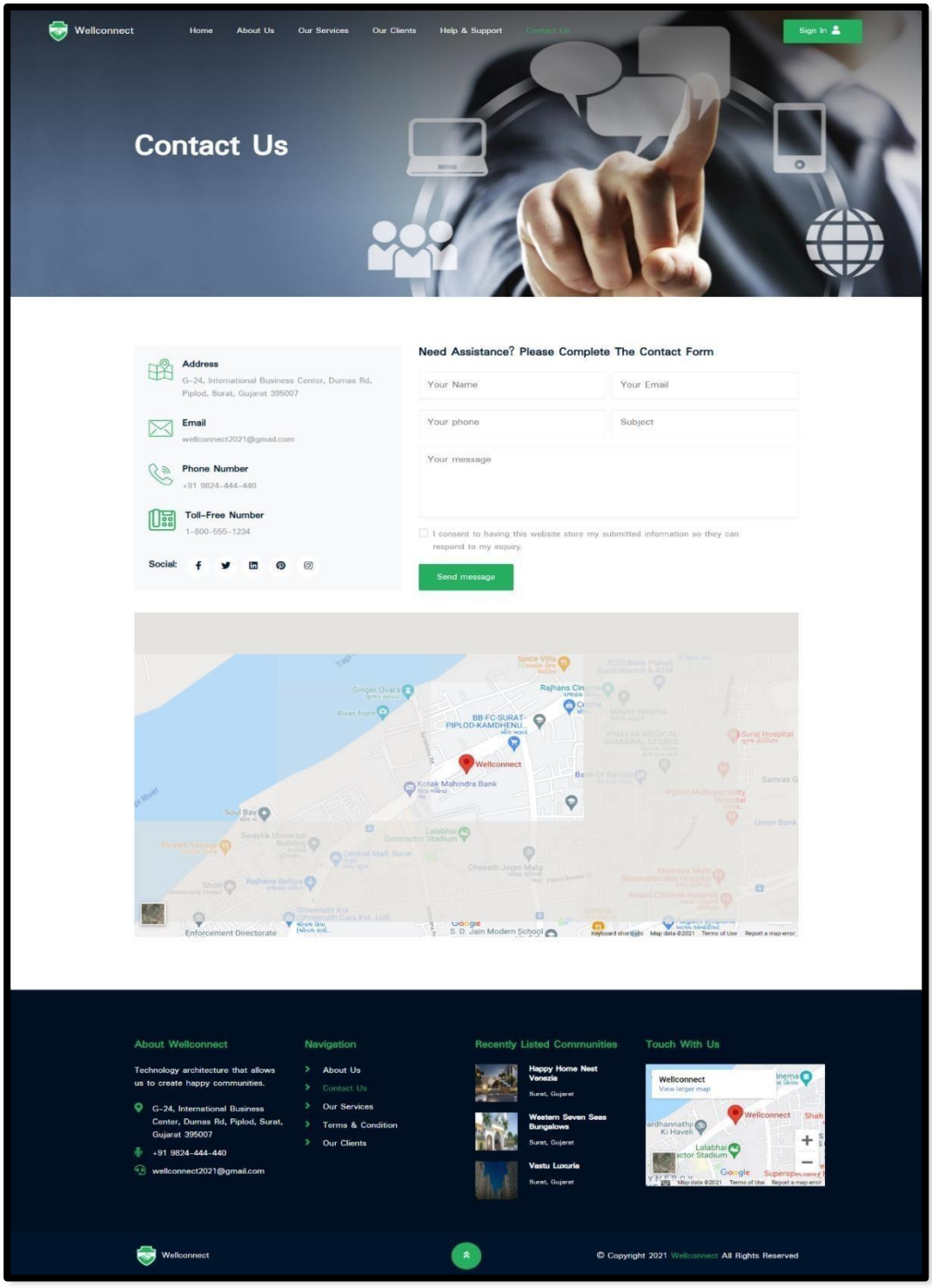
ALL THE ACTIVE CLIENTS ARE LISTED HERE

POLICY:



ALL THE POLICY & TERMS ARE LISTED HERE

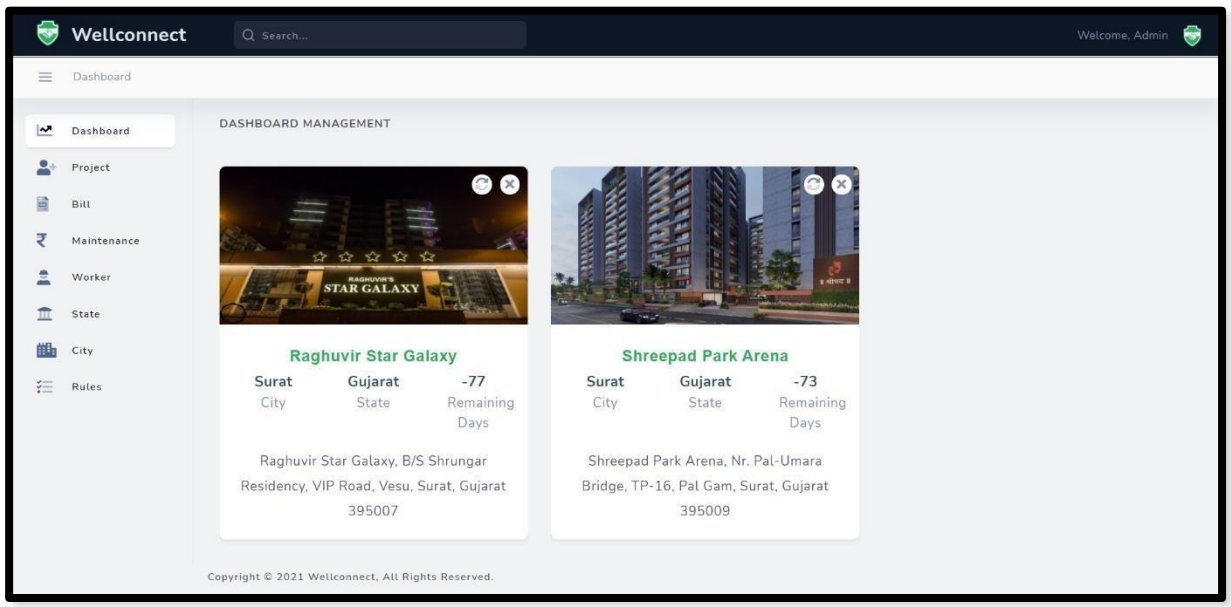
CONTACT US PAGE



USER CAN GET CONTACT DETAILS FROM THE ABOVE PAGE

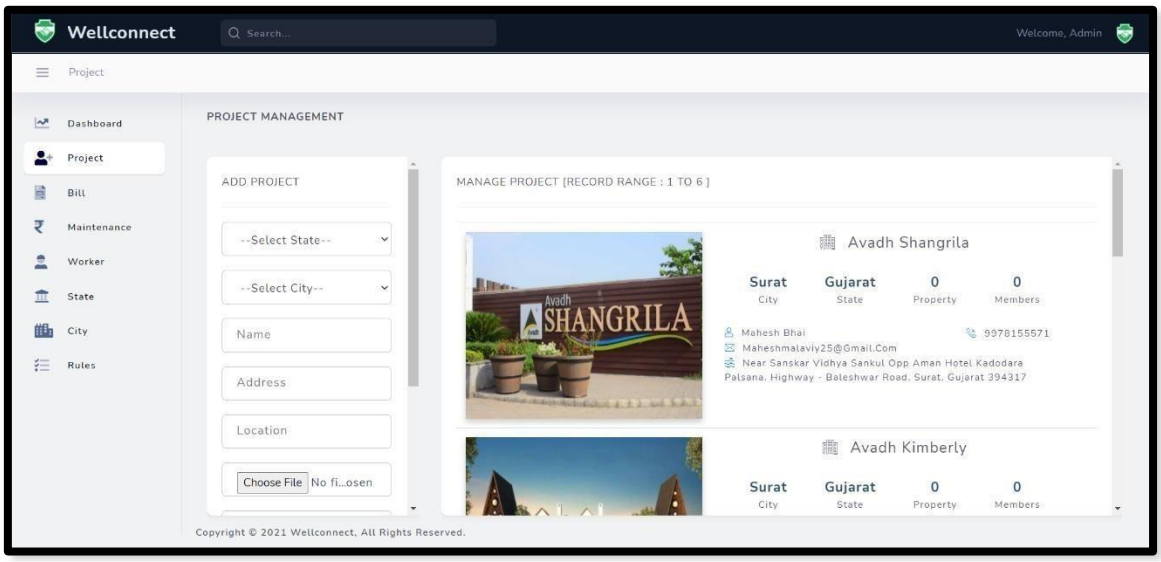
ADMIN PANEL

DASHBOARD:



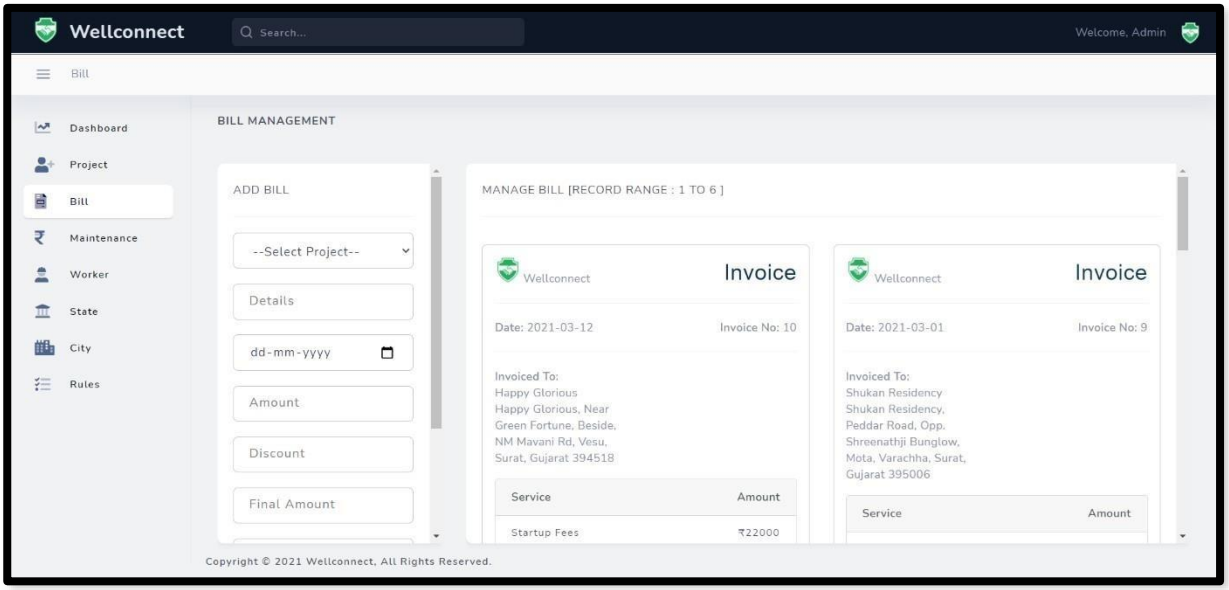
THE PROJECT WHICH HAS NOT PAID MAINTENANCE WILL DISPLAY HERE

PROJECT:



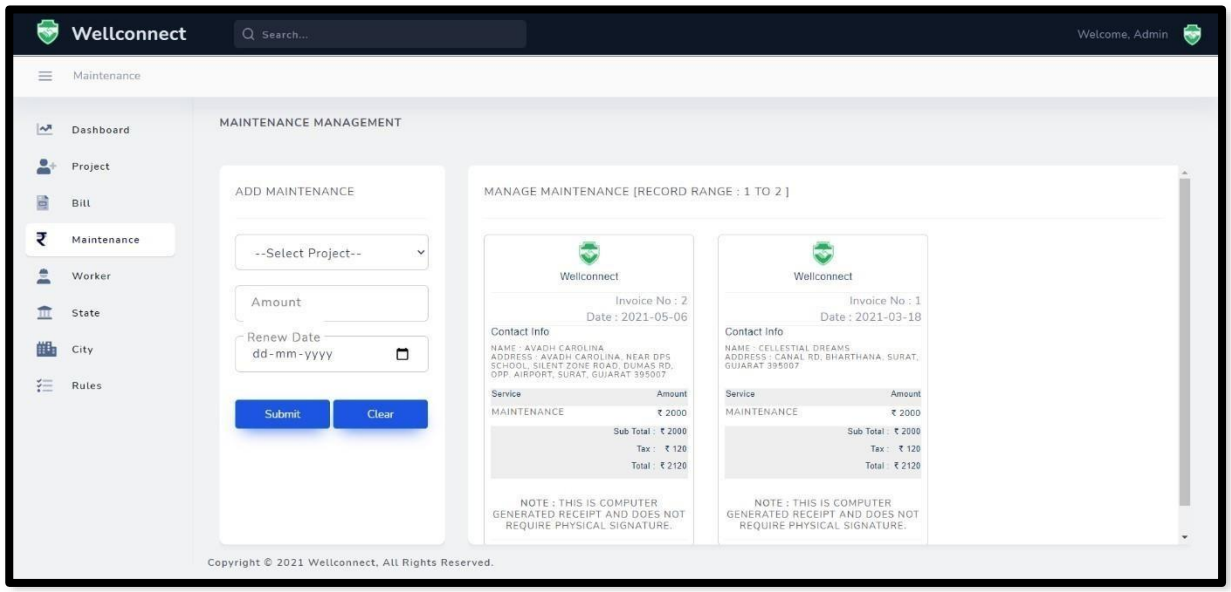
ALL THE PROJECT WHICH WILL BE REGISTERED ARE DISPLAYED
HERE

BILL:



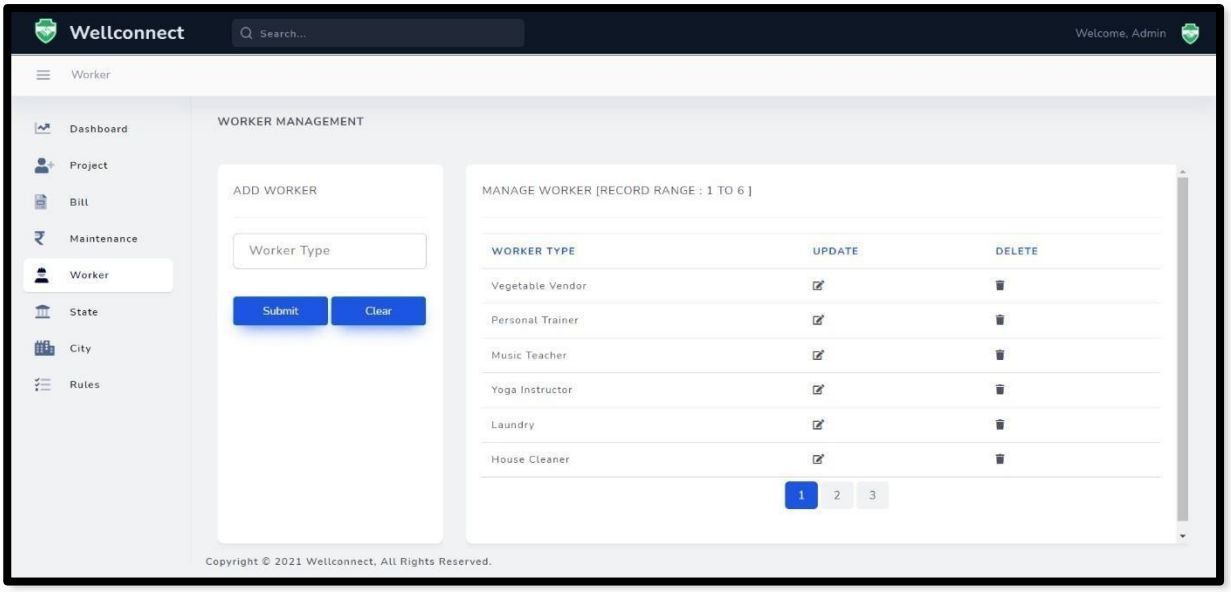
SOCIETY STARTUP BILL WITH WELLCONNECT ARE DISPLAYED HERE

MAINTENANCE:



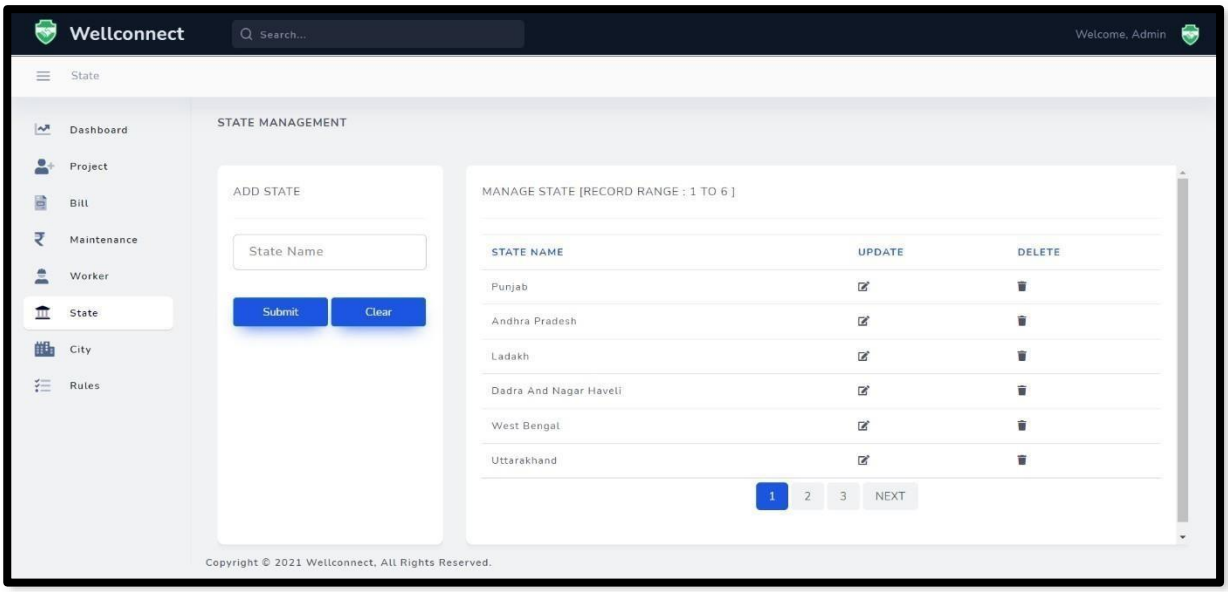
SOCIETY RENEWS THIS SOFTWARE BY PAYING ANNUAL MAINTENANCE

WORKER TYPE:



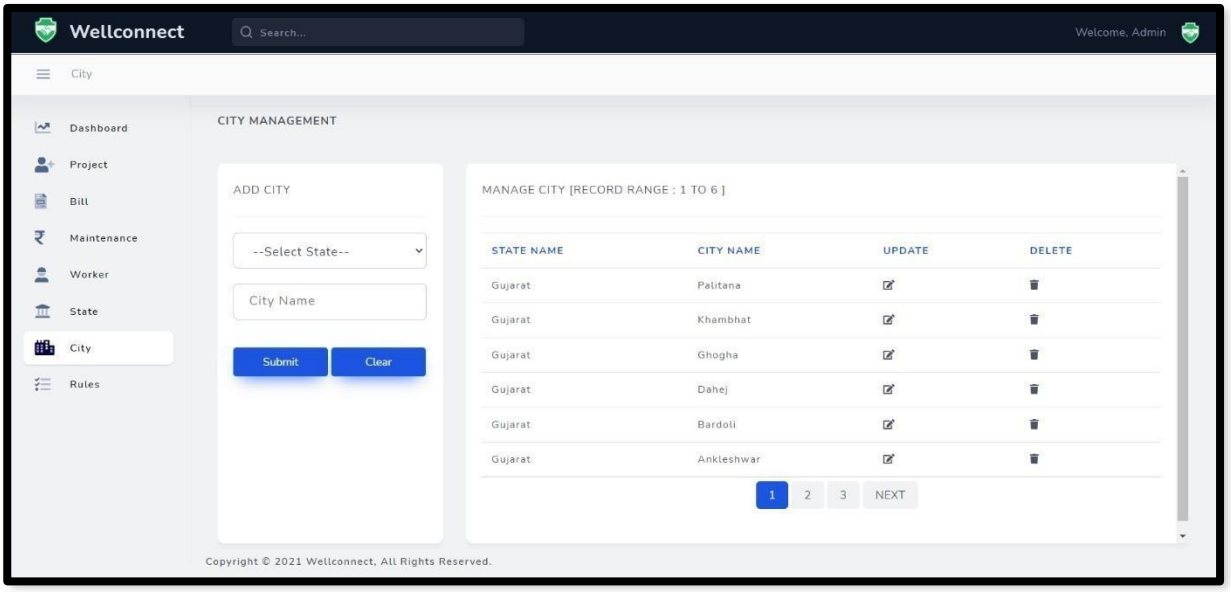
ALL THE WORKERS TYPE WHICH ARE COMING TO SOCIETY ARELISTED HERE

STATE:



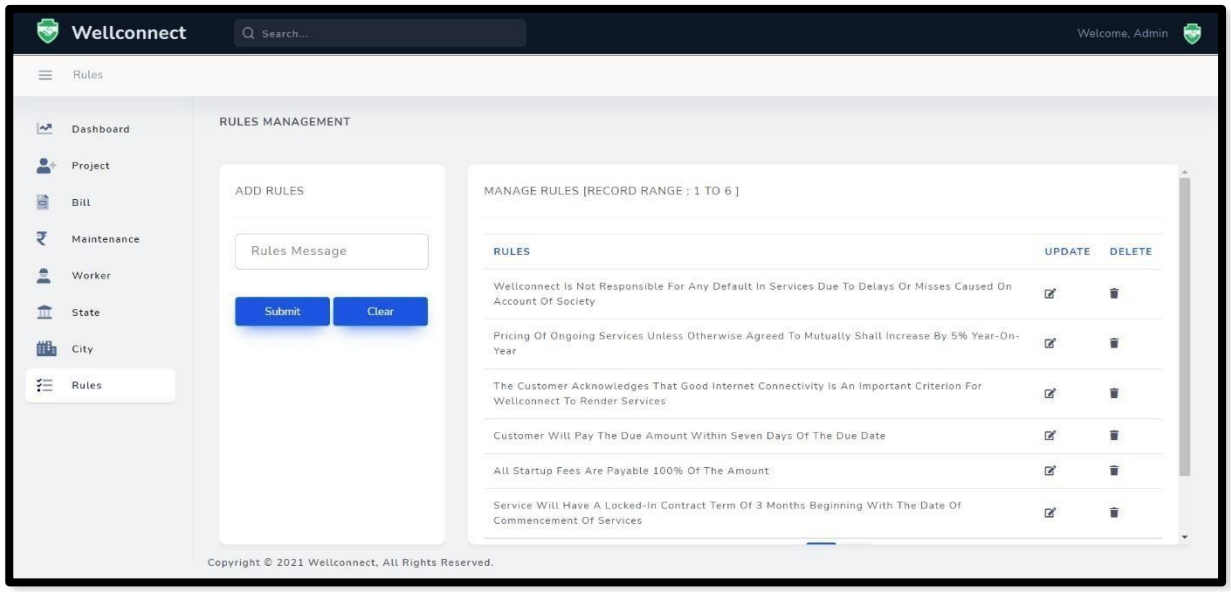
ALL THE STATES ARE LISTED HERE

CITY:



ALL THE CITIES ARE LISTED HERE

RULES:



ALL THE RULES BETWEEN SOCIETY & WELLCONNECT ARE LISTEDHERE

7.TESTING

Software Testing:

Testing is the process of detecting errors. Testing performs a very critical role for the quality assurance and for ensuring the reliability of software. The resultsof testing are used later on during maintenance also.

Objectives of Testing

- Testing is a process of executing a program with the intent of findingan error.
- A good test case is one that has a high probability of finding asyet undiscovered error.
- A successful test is one that uncovers as yet undiscovered error.

Levels of Testing

- **Unit Testing**

  Unit testing focuses verification effort on the smallest unit of software design (i.e.), the module. Unit Testing exercise specific paths in a module's control structure to ensure complete coverage and maximum error detection.

- **Integration Testing**

  Integration testing is a systematic technique for constructing the program structure while at the same

time conducting tests to uncover errors associated with interfacing.

- **Validation Testing**

  At the end of Integration Testing, software is completely assembled as a package, interfacing errors have been uncovered and correction testing begins. Software Testing and Validation is achieved through serried of Black Box tests that demonstrate conformity with the requirements.

- **System Testing**

  System testing is series of different tests whose primary purpose is to fully exercise the computer based system. Types of system test includes : recovery testing, security testing, stress testing, performance testing. Although each test has a different purpose, all the work should verify that all system elements have been properly integrated and perform allocated functions.

- **Performance Testing**

  Performance testing is designed to test run-time performance of application within the context of an integrated system . Proper response time for user actions is critical to maintaining and enhancing user base.

- **Load Testing**

  Load testing demonstrates how the application performs under concurrent user sessions for typical user scenarios. Setting up common scenarios that

execute for a short period of time allows seeing how the application operates under a multiple-user load.

- **Stress Testing**

  Stress test allows examining how the application behaves under a maximum user load. To stress test application, remove the think time for load scripts and execute the scripts against the server to overload use of the application. If there are unhandled exceptions in a stress test, the application may not be robust enough to handle a sudden unexpected increase in user activity. Stress tests generally execute for a longer period of time, and can be used to catch difficult-to-diagnose problems like subtle memory leaks in the application

Test Cases

Sample test cases:

Login:

This test procedure is used to see whether customer can properly login to asystem or not and for authorizing the customer for login.

Sr. no	Measure	Expected result	Actual Result	Remark
1.	Enter valid email address	OTP Sent	OTP Sent	OTP Received On Mail AndText Message
2.	Enter invalid email address	Error	Error	Please Enter Valid Email Address
3.	Enter valid email address & invalid OTP	Invalid OTP	Invalid OTP	Please Enter Valid OTP
4.	Enter valid email address & valid OTP	Login successful	Login successful	Login successful

Admin Login:

Sr.No	Input Data	Expected Result	Actual Result	Remark
1	Email Address: xyz@gmal.com	Error	Error	Please EnterValid Email Address
2	Email Address: xy@gmail.com	OTP Sent	OTP Sent	OTP Received On Mail AndText Message
3	Email Address: xy@gmail.com OTP:123456	Invalid OTP	Invalid OTP	Please Enter Valid OTP
4	Email Address: xy@gmail.com OTP: 668502	Login Successful	Login Successful	Login Successful

8.CONCLUSION

This Society management system is an amazing one which can reduce thetime and increase the convenience of the members to a great extent. They are provided with a lot of features related to their house.

The Society members can communicate with the help of this system and can come together in case of any problem caused. Members will also get notified about their status of payment to several areas like the maintenance fees,bills, rents, etc.

Our website is implemented to help manage the affairs of a housing society by requiring the committee member to enter and save minimal amountof information. It will allow the members of the housing society to access information about a society, its residents and the managing committee on the go.

9.BIBLIOGRAPHY

Web References:

www.zipgrid
.com
www.jll.com
www.apnaco
mplex.com