



COMPUTER ENGINEERING DEPARTMENT L. D. COLLEGE OF ENGINEERING AHMEDABAD

Gujarat Technological University

Chandkheda, Ahmedabad

A Design Engineering Project Report

On "App for Residential Societies"

Submitted By

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Internal Guide

Prof. Pragnesh Patel Assistant Professor Computer Engineering Department LDCE, Ahmedabad

HOD

Dr. S. M. Shah Professor & HOD Computer Engineering Department LDCE, Ahmedabad

CANDIDATE'S DECLARATION

We have finished our project report entitled "App for residential societies" and submitted to our respective guide. We have done our work proficiently with utter preciseness and prior to our knowledge.

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Signature :

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Branch : Computer Engineering

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Branch : Computer Engineering

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L.D College of engineering, Ahmedabad

Affiliated to: Gujarat Technological University

ACKNOWLEDGEMENT

We would like to extend our heartily thanks with a deep sense of gratitude and respect to all those who has provided us immense help and guidance during our project.

We would like to express our sincere thanks to our internal guide Mr. Pragnesh G. Patel for providing a vision about the system and for giving us an opportunity to undertake such a great challenging and innovative work. We are grateful for the guidance, encouragement, understanding and insightful support given in the development process.

We would like to extend my gratitude to Dr. S. M. Shah, Head of Computer Engineering Department, LDCE, Ahmedabad, for his continuous encouragement and motivation.

Last but not the least,we would like to mention here that we are greatly indebted to each and everybody who has been associated with our project at any stage but whose name does not find a place in this acknowledgement.

Yours Sincerely,

Dhyey Savaliya (170280107104)

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1) INTRODUCTION:

In these modern times, when urbanization is at its peak, the migrations of people towards the cities is at its peak. Hence with the growing population in urban as well as rurban areas, the trend of housing societies has reached its zenith. With the population increasing leaps and bounds, the size of the housing societies has also increased substantially. Many societies have a capacity of around 5000 people and are also considered as mini-towns. Hence, in order to maintain an efficient and effective system within the society, automation is required in the conduction of habitual events or processes.

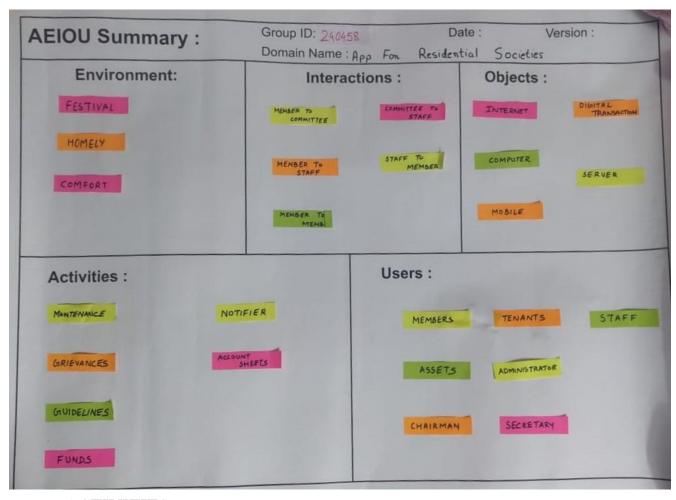
Hence our web-application 'App For Residential Societies' is an online platform which provides various features to its users ranging from online maintenance payment to reporting complaints anonymously among the various functionalities provided.

Aim:-

- Remote payment of maintenance as well as various festival funds.
- To verify and alert the members whose maintenance payment as well as other dues are left.
- Complain about something inappropriate going on in the society anonymously.
- To circulate notices without going anywhere physically on the application itself and uploading the receipts of various bills paid.

2) CANVASES:

2.1) AEIOU Canvas:-



ACTIVITIES:

- Maintenance
- Grievance
- Guidelines
- > Funds
- Account sheets
- Notifier

ENVIROMENT:-

- Server
- Web application
- Spring Boot

INTERACTIONS:-

- Member to committee
- Member to vendor
- > Member to member
- Committee to vendor

OBJECT:-

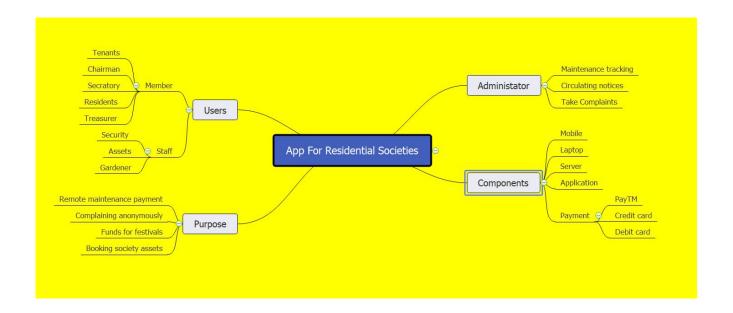
- > Internet
- Mobile
- Server
- Computer
- Digital transactions

USERS:-

- Members
- > Tenants
- Vendor
- Administrator
- Secretory
- Chairman
- > Assets

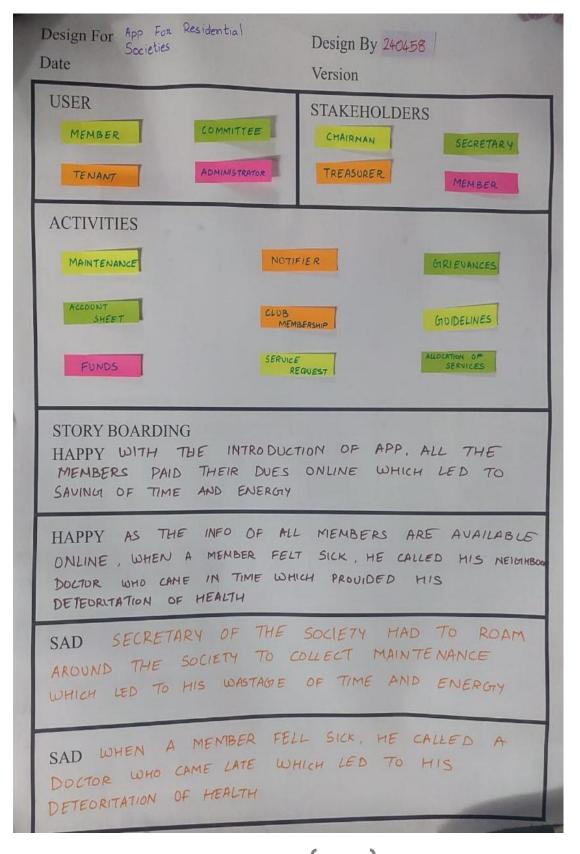
2.2) Mind Map:-

"A mind map is a visual representation of hierarchical information that includes a central idea surrounded by connected branches of associated topics"



Mind-Map of System

2.3) Empathy MappingCanvas:-



USERS: -

- Members
- > Tenants
- Administrator
- Secretary
- **>** Chairman

STAKE-HOLDERS: -

- > Chairman
- Secretary
- Member

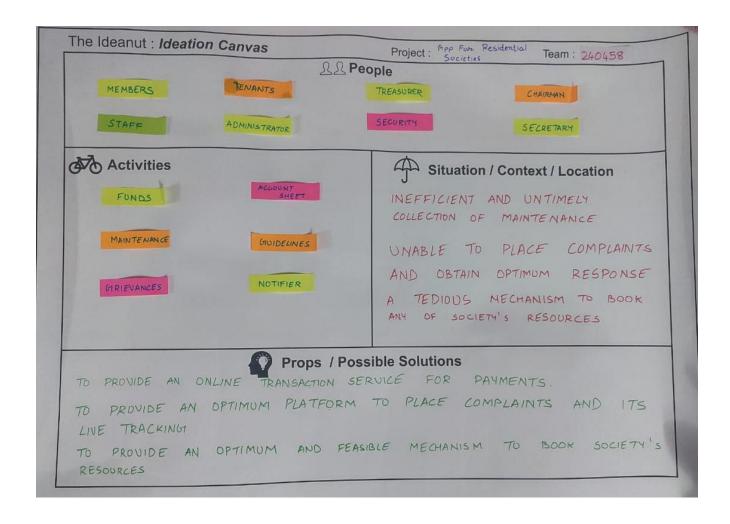
ACTIVITIES:

- Maintenance
- Grievance
- Guidelines
- Funds
- > Service Request
- > Club membership
- Account sheets
- Notifier

Story Boarding:

- ▶ <u>HAPPYSTORY:</u> With the introduction to this app, all the members paid their dues online which led to saving time and energy.
- **HAPPY STORY:**-As the information of all members are available online, when a member felt sick, he called his member doctor who came in time which prevent the worsening of his health.
- SADSTORY:-Secretory of the society had to roam around the society to collect maintenance which led to his wastage of time and energy.
- SAD STORY:- When a member fell sick, he called a doctor who came late which led to worsening of his health

2.4) IdeationCanvas:-



PEOPLE: -

- Members
- > Tenants
- Vendor
- Administrator
- Security
- Secretary
- Chairman

ACTIVITIES:

- Maintenance
- Grievance
- Guidelines
- > Funds
- Account sheets
- Notifier

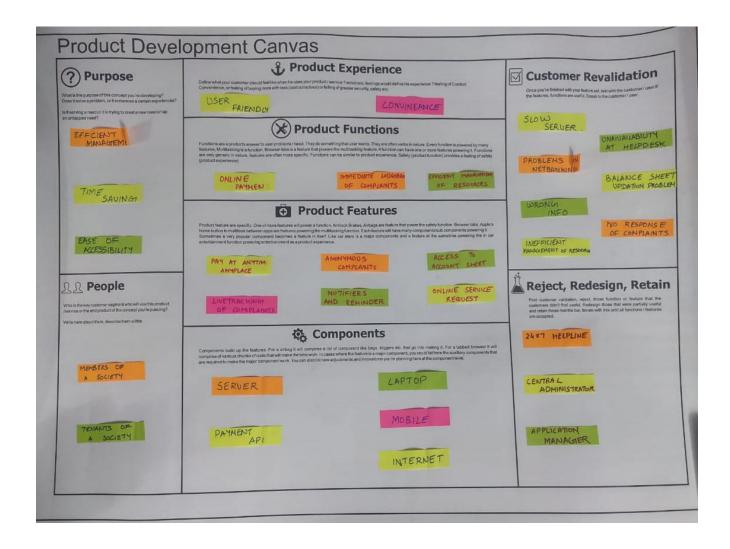
SITUATIONS/CONTEXT/LOCATION: -

- > Inefficient and incongruous collection of maintenance
- > Unable to place complaints and obtain optimal response
- > Tedious mechanism to book any of societies resources

PROPS/POSSIBLE SOLUTIONS: -

- > To provide an online transaction service for payments
- > Provide an optimum platform to place complaints and its live tracking
- > To provide an optimum and feasible mechanism to book societies resources

2.5) Product DevelopmentCanvas:-



Purpose of system

PURPOSE:-

- > Efficient management
- Time saving
- > Ease of accessibility

PRODUCT EXPERIENCE:-

- > User friendly
- Convenient

PRODUCT FUNCTION:-

- > Online payment
- > Immediate Lodging of complaints
- > Efficient management of resources

PEOPLE: -

- Members of society
- > Tenants of society

PRODUCT FEATURES:-

- Pay at any time anyplace
- Anonymous complaints
- Access to account sheet
- Notifier and reminder
- Online service request
- > Live tracking of complaint

COMPONENTS: -

- Payment API
- > Email API
- > Internet
- Laptop
- Server

API-S USED:-

- > Flyway
 - ◆ This third party API was used for the Database Migration.
- ➤ Authorized.net(Sand-Box account)
 - We use this API to integrate payment gatewayinto system.
- > Sendgrid:
 - ◆ This third party API was used for the sending emails

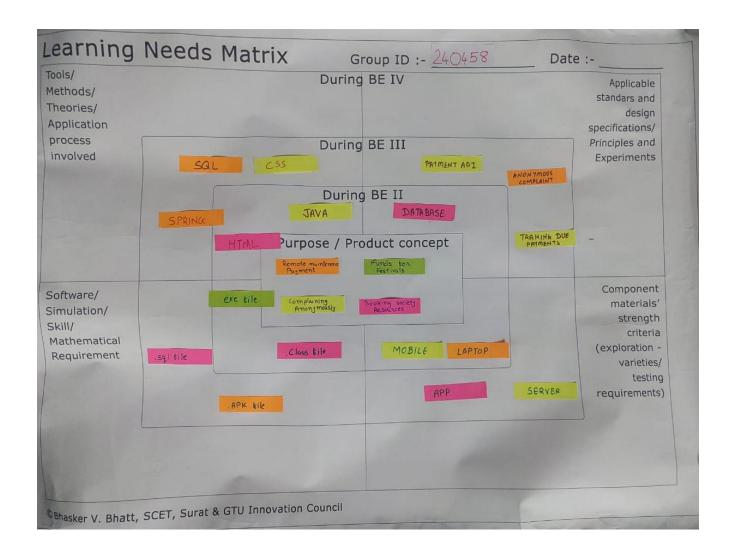
REJECT, REDESIGN, RETAIN: -

- > 24X7 helpline
- Central administrator
- Application manager

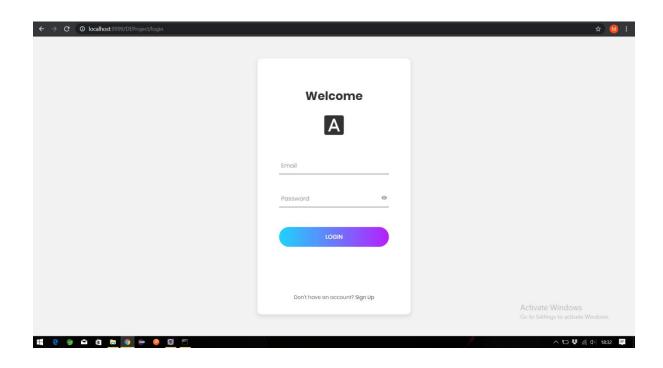
CUSTOMER REVALIDATION:-

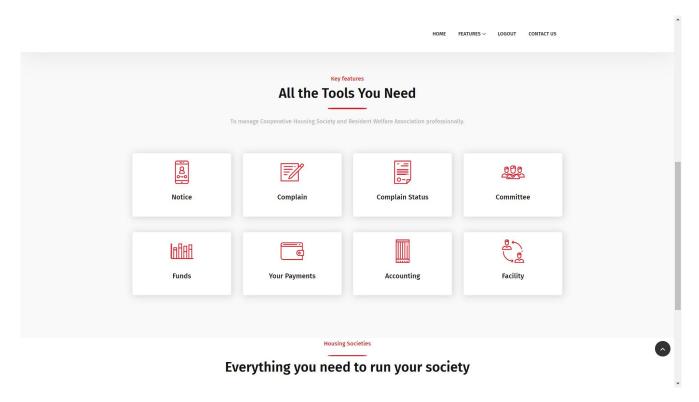
- Slow server
- Problems in net banking
- Wrong information
- Inefficient management of resources
- > Unavailability at help-desk

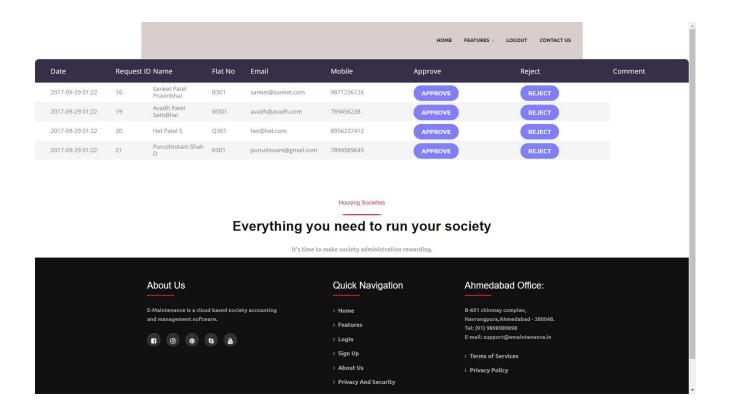
2.6) LNM Canvas:-

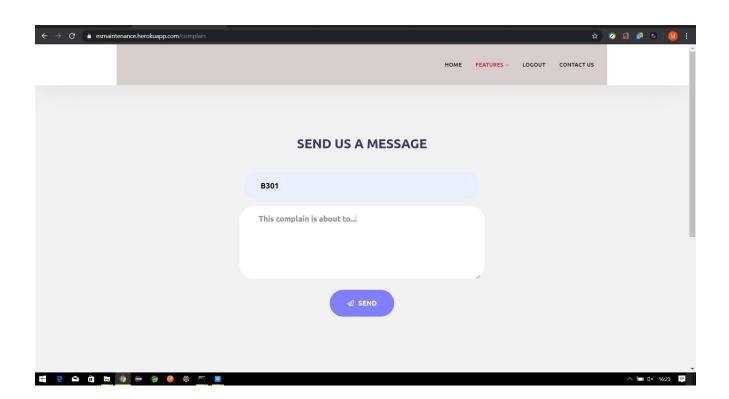


3) PROTOTYPE:









HOME FEATURES V LOGOUT CONTACT US

LIST OF COMMITTEE MEMBERS

Member ID	Name	Post	Contact Number	Email	House Number
3	Purshtamm Bhai Shah	chief secretary	9428410496	purushtoam@gmail.com	E301
4	PravinBhai Patel	Secretary	9425126126	pravinbhai@gmail.com	B301

About Us Cuick Navigation E-Maintenance is a cloud based society accounting and management software. Features Login Sign Up Ahmedabad Office: Navrangpura, Ahmedabad - 380048. Tel. (91) 9989898988 E-mail: support@emaintenance.in Sign Up Terms of Services About Us Privacy And Security Frequently Asked Questions Contact Us

HOME FEATURES V LOGOUT CONTACT US

LIST OF VENDORS

Vendor ID	Name	Profession	Contact Number	Email	House Number
3	Patel Meet	software developer	8238803462	spemeet999@gmail.com	A301
4	Malav	MBA from IIM'A	9468512361	malav@malav.com	C301
5	Sanket	LIC Agent	9451126126	sanket@sanket.com	B301
6	Dhyey	Doctor	9878987845	dhyey@dhyey.com	D301

About Us

E-Maintenance is a cloud based society accounting and management software.

Features

Login

Sign Up

About Us

Privacy And Security

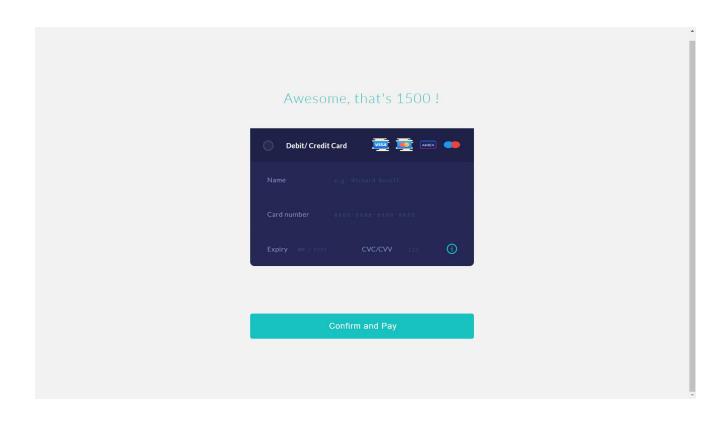
Frequently Asked Questions

Ahmedabad Office:

B-601 chinmay complex,
Navrangpura, Ahmedabad - 380048.
Tel: (91) 989898988

E-mailt support@emaintenance.in

Frequently Asked Questions



		from use mname	lname	phone_no	flate_no	user_type	email email	password	isactive	status	comment	date
13	Meet	patel	Dineshbhai	8238803462	A201	Member	speme1et999@gmail.com	123456	true	approved		2020-05-26 13:06:22
14	Meet	patel	Dineshbhai	8238803462	A301	Member	spemeet999@gmail.com	123456	true	approved		2020-05-26 13:07:44
9	sanket	patel		741852963	B301	Tenant	sanket@sanket.com	123456	false	rejected		2020-05-26 12:54:07
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11	as	as	as	34532	B301	Member	admin2@admin.com	123456	false	rejected		2020-05-26 12:55:12
12	malav	patel		823880346	Q301	Member	malav@gmail.com	123456	true	approved		2020-05-26 12:55:55
15	Dhyey	М		9428410482	Q301	Tenant	dhyey@dhyey.com	123456	true	approved		2020-05-26 15:13:05

4) Conclusion and Future Scope:

Conclusion:-

By creating this project, it will benefit all the people who will use our app and ease the method of tracking maintenance and funding.

Future Scope:-

We will make periodic improvement to our System to help people by adding various functionalities and also provide wider range of choices and 3rd party applications to pay the bills.

5) References:

Society123

http://www.society123.com

ADDA

https://apartmentadda.com