LAB REPORT

Submitted by

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Under the Guidance of

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In partial satisfaction of the requirements for the degree of

BACHELOR OF TECHNOLOGY
in
COMPUTER SCIENCE ENGINEERING

with specialization in Internet of Things

SCHOOL OF COMPUTING

COLLEGE OF ENGINEERING AND TECHNOLOGY

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

KATTANKULATHUR - 603203

JUNE 2022

SRM INSTITUTION OF SCIENCE AND TECHNOLOGY
KATTANKULATHUR-603203

BONAFIDE CERTIFICATE

Certified that this lab report titled _____ is the Bonafide work done by **R.Piranesh (RA2011032010068)** who carried out the lab exercises under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other work.

SIGNATURE

Mr. V. Nallarasan

SEPM – Course Faculty

Assistant Professor

Department of Networking and Communications

ABSTRACT

This project focuses on providing Property Management to real estate agencies, commercial construction companies or property management company. This helps customer to save time & get right business solution for your business

The real estate business deals with the development of the property and the lease, rent or sale of establishments. It is one of the fastest growing enterprises in India. It has potentially never ending growth. Incredibly lawyers and real estate people has the highest income.

As the real estate agent one has to maintain a lot of data. He is involved-with the clients who has to lease out, rent or sale the property and with the customer who intends to buy, rent or lease the property. Hence it involves lot of information exchange. The advent of computers can ease out this hassle. With the organized data storage system it allows faster search time, interaction and deal closure. Indeed the advent of RDBMS application can be a boom to the field of real estate agent.

TABLE OF CONTENTS

CHAPTER NO	TITLE	PAGE NO
	BONAFIDE CERTIFICATE	i
	ABSTRACT	ii
	LIST OF FIGURES	iv
1	PROBLEM STATEMENT	
2	STAKEHOLDERS & PROCESS MODELS	
3	IDENTIFYING REQUIREMENTS	
4	PROJECT PLAN & EFFORT	
5	WORK BREAKDOWN STRUCTURE & RISK ANALYSIS	
6	SYSTEM ARCHITECTURE, USE CASE & CLASS DIAGRAM	
7	ENTITY RELATIONSHIP DIAGRAM	
8	DATA FLOW DIAGRAM	
9	SEQUENCE & COLLABORATION DIAGRAM	

10	**DEVELOPMENT OF TESTING FRAMEWORK/USER INTERFACE**	
11	**TEST CASES & REPORTING**	
12	**ARCHITECTURE/DESIGN/FRAMEWORK/IMPLE -MENTATION**	
	CONCLUSION	
	REFERENCES	
	APPENDIX (CODE)	

LIST OF FIGURES

FIGURE NO	TITLE	PAGE NO
5.1	Work Breakdown Structure	
5.2	Gantt Chart	
5.3	SWOT Analysis	
6.1	System Architecture	
6.2	Use-Case Diagram	
6.3	Class Diagram	
7.1	Entity Relationship Diagram	
8.1	0 Level Data Flow Diagram	
8.2	1st Level Data Flow Diagram	
9.1	Sequence Diagram	
9.2	Collaborative Diagram	

ONE PAGE BUSINESS CASE TEMPLATE

DATE	30-03-22
SUBMITTED BY	R.Piranesh
TITLE / ROLE	PROPERTY MANAGEMENT SYSTEM / FRONTEND DEVELOPER

THE PROJECT

In bullet points, describe the problem this project aims to solve or the opportunity it aims to develop.

To provide landlords everything they need

- to manage their rental business in one place
- including posting listings
- collecting rent online and
- screening applicants

THE HISTORY

In bullet points, describe the current situation.

- Before there used to be a lot of brokers and middle man
- They charge a lot of convenience fee
- There is little to no communication between the houseowner and tenet

LIMITATIONS

List what could prevent the success of the project, such as the need for expensive equipment, bad weather, lack of special training, etc.

- Heavy competition
- Budget problem
- Buyers don't trust online website majorly

APPROACH

List what is needed to complete the project.

- Budget
- Team work / coordination
- Good presentation
- Knowledge about coding
- Understanding of spiral method

BENEFITS

In bullet points, list the benefits that this project will bring to the organization.

- Less hassle for search of property
- Funds

- More customers
- Trust on online website

DEPT. Of NWC

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	2
Title of Experiment	PROPERTY MANAGEMENT SYSTEM
Name of the candidate	R.PIRANESH
Team Members	RAHUL KUMAR, ESHA DESWAL
Register Number	RA2011032010068
Date of Experiment	6-04-22

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim

To identify the appropriate Process Model for the project and prepare Stakeholder and User Description.

Team Members:

Sl No	Register No	Name	Role
1	**RA2011032010046**	RAHUL KUMAR	TEAM LEAD
2	**RA2011032010039**	ESHA DESWAL	BACKEND DEVELOPER
3	**RA2011032010068**	R.PIRANESH	FRONTEND DEVELOPER

Project Title:

PROPERTY MANAGEMENT SYSTEM

Methodology: Agile

- Agile is a set of software development methods in which, project requirements and outcomes can change with fluidity.
- The stakeholders should quickly adapt to any changes in the project requirements and outcomes.
- The stakeholders communicate effectively with each other and the customer. The agile software development emphasizes on four core values.

  - Individual and team interactions over processes and tools
  - Working software over comprehensive documentation
  - Customer collaboration over contract negotiation
  - Responding to change over following a plan

Incorporate ***Identification of Project Methodology and Stakeholder Description template***

Stakeholder Name	Activity/ Area /Phase	Interest	Influence	Priority (High/ Medium/ Low)
TEAM LEAD	Manage the team and the project	High	High	High
BACKEND DEVELOPER	Build code and allow database	High	High	High

FRONTEND DEVELOPER	Designing the website	High	High	High

RESULT :

Thus, the Project Methodology was identified stakeholders were described.

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Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	3
Title of Experiment	System, Functional and Non-Functional Requirements of the Project
Name of the candidate	R.PIRANESH
Team Members	RAHUL KUMAR , ESHA DESWAL
Register Number	RA2011032010068
Date of Experiment	5/04/2022

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim

To identify the system, functional and non-functional requirements for the project.

Team Members:

S No	Register No	Name	Role
1	RA2011032010046	RAHUL KUMAR	TEAM LEAD
2	RA2011032010039	ESHA DESWAL	BACKEND DEVELOPER
3	RA2011032010068	R.PIRANESH	FRONTEND DEVELOPER

Project Title: PROPERTY MANAGEMENT SYSTEM

System Requirements:

- RAM:4GB
- Minimum data base space:10GB
- CPU: Quad 2 GHz+ CPU
- CPU: for web 1,6 GHz

Functional Requirements:

Product:

- System compares the products from different website and user generated reviews
- System provides both mobile and computer friendliness
- System provides 3rd party integrations
- System allows to compare prices of different houses
- System allows you to find your houses near your preferred locations

Non-Functional Requirements:

Availability:

- System provides security for the data from the users
- System provides Maintainability for the website

Result

Thus the requirements were identified and accordingly described.

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Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	4
Title of Experiment	Prepare Project Plan based on scope, Calculate Project effort based on resources and Job roles and responsibilities
Name of the candidate	R.PIRANESH
Team Members	RAHUL KUMAR, ESHA DESWAL
Register Number	RA2011032010068
Date of Experiment	

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim

To Prepare Project Plan based on scope, Calculate Project effort based on resources, Find Job roles and responsibilities

Team Members:

Sl No	Register No	Name	Role
1	RA2011032010046	RAHUL KUMAR	TEAM LEAD
2	RA2011032010039	ESHA DESWAL	BACKEND DEVELOPER
3	RA2011032010068	R. PIRANESH	FRONTEND DEVELOPER

1. Project Management Plan

Describe the key issues driving the project. **[Min 3 Focus Areas]**

Focus Area	Details
Integration Management	All project decisions must be made after weighing all of the benefits and drawbacks, and in the event of a disagreement, a vote must be conducted and the outcome must stand. Team roles and responsibilities: 1. Project Manager 2. Front end developer(R. Piranesh), is a member of the team. 3. Back end developer(Esha Deswal), is a member of the team. Change Management- If a situation happens that necessitates change management, all team members must contribute frontend and resources to speed the process,
Stakeholder	1. Project manager, Front end developer, Back end developer 2. Business analyst, Cost estimation, Tester
Communication Management	• All vital details and information should be provided to the team's official group, along with a label indicating the message's urgency. • All deadlines will be communicated and informed well in advance. • The team will work with the customer for two months to oversee any bugs and provide assistance as needed

2. Estimation

2.1. Effort and Cost Estimation

Activity Description	Sub-Task	Sub-Task Description	Effort (in hours)	Cost in INR
Design the user screen	E1R1A1T1 (Effort-RequirementActivity-Task)	Developing front end of the website	20	10,000
	E1R1A1T2	Developing back end of the website	20	8,000
	E1R1A1T3	Database	8	5,000
Identify Data Source for displaying units of Energy Consumption	E2R2A1T2	Document	7	5,000

Effort (hr)	Cost (INR)
1	500

2.2. Infrastructure/Resource Cost [CapEx]

< OneTime Infra requirements >

Infrastructure Requirement	Qty	Cost per qty	Cost per item
Hosting Server	1	3.5k/month	3k/month
Hardware	3	40k	1.2L

2.3. Maintenance and Support Cost [OpEx]

Category	Details	Qty	Cost per qty per annum	Cost per item
People	Network, System, Middleware and DB admin Developer , Support Consultant	3	2,000,000	6,000,000
License	Operating System Database Middleware IDE	10	10000	100,000
Infrastructures	Server, Storage and Network	20	20000	400,000

3. Project Team Formation

3.1. Identification Team members

Role	Responsibilities
Project Manager	Manage the project
Business Analyst	Discuss and Document Requirements
Technical Lead	Design the end-to-end architecture
UX Designer	Design the user experience
Frontend Developer	Develop user interface
Backend Developer	Design, Develop and Unit Test Services/API/DB
Tester	Define Test Cases and Perform Testing

3.2. Responsibility Assignment Matrix

RACI Matrix	**Team Members**			
Activity	**Name (BA)**	**Name (Developer)**	**Name (Project Manager)**	**Key Business User**
User Requirement Documentation	A	C/I	I	R
Front End	A	C	A	R
Back End	A	A	R	I
Testing	A	C	I	C
Database Management	R	A	C	I
Deployment	I	C	R	C

A	Accountable
R	Responsible
C	Consult
I	Inform

Reference

1. https://www.pmi.org/
2. https://www.projectmanagement.com/
3. https://www.tpsgc-pwgsc.gc.ca/biens-property/sngp-npms/ti-it/ervcpgpm-dsfvpmpteng.html

Result:
Thus, the Project Plan was documented successfully.

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Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	5
Title of Experiment	Prepare Work breakdown structure, Timeline chart, Risk identification table
Name of the candidate	R.PIRANESH
Team Members	RAHUL KUMAR, ESHA DESWAL
Register Number	RA2011032010068
Date of Experiment	

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

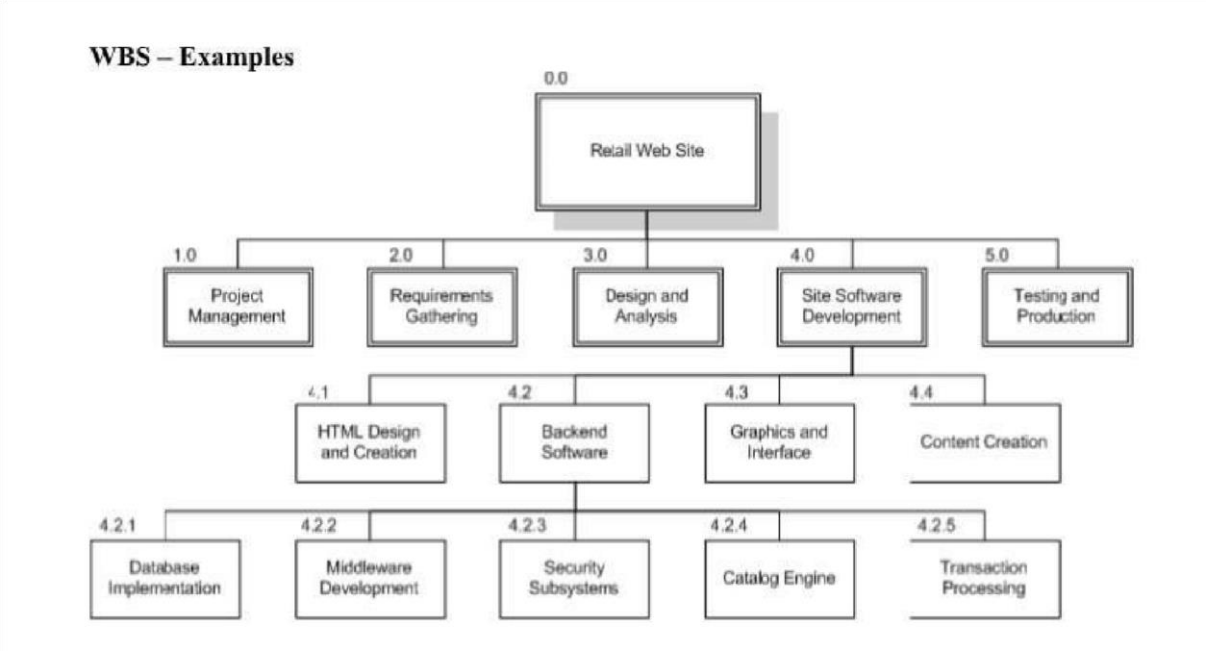
Aim

To Prepare Work breakdown structure, Timeline chart and Risk identification table

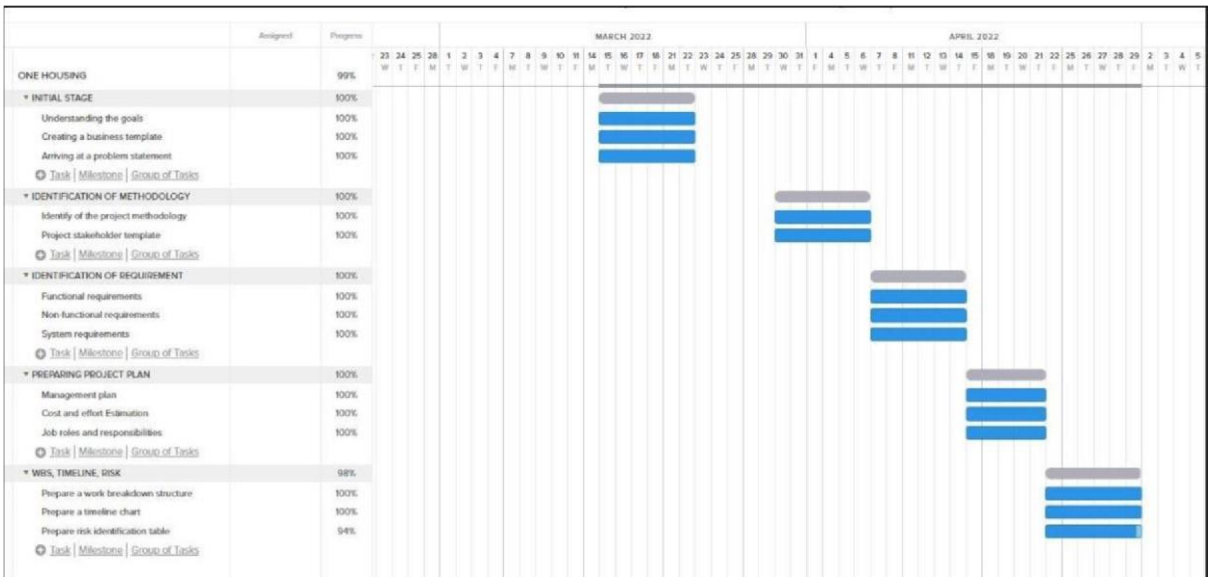
Team Members:

Sl No	Register No	Name	Role
1	RA2011032010046	RAHUL KUMAR	TEAM LEAD
2	RA2011032010039	ESHA DESWAL	BACKEND DEVELOPER
3	RA2011032010068	R. PIRANESH	FRONTEND DEVELOPER

WBS



GANTT CHART



SWOT ANALYSIS

RISK MANAGEMENT

Response	Strategy	Examples
Avoid	Risk avoidance is a strategy where the project team takes action to remove the threat of the risk or the project from the impact.	Extending the schedule. Reducing scope. Change the execution strategy.
Transfer	Risk transfer involves shifting or transferring the risk threat and impact to a third party. Rather transfer the responsibility and ownership.	Purchasing insurance. Performance bonds. Warranties contract issuance.
Mitigate	Risk mitigation is a strategy where the project team takes an action to reduce the probability of the risk occurring. This doesn't risk or impact, but rather reduces the likelihood of it becoming real.	Increase testing. Changing suppliers to a more stable one hence reducing process complexity.
Accept	Risk acceptance means the team acknowledges the risk and its potential impact but decides not to take any action to prevent it. It is dealt with only if it occurs.	Contingency reserve budgets. Management schedule float Event contingency.

Result:

Thus, the work breakdown structure with timeline chart and risk table were formulated successfully.

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Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	6
Title of Experiment	Design a System Architecture, Use Case and Class Diagram
Name of the candidate	R.PIRANESH
Team Members	RAHUL KUMAR, ESHA DESWAL
Register Number	RA2011032010068
Date of Experiment	

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

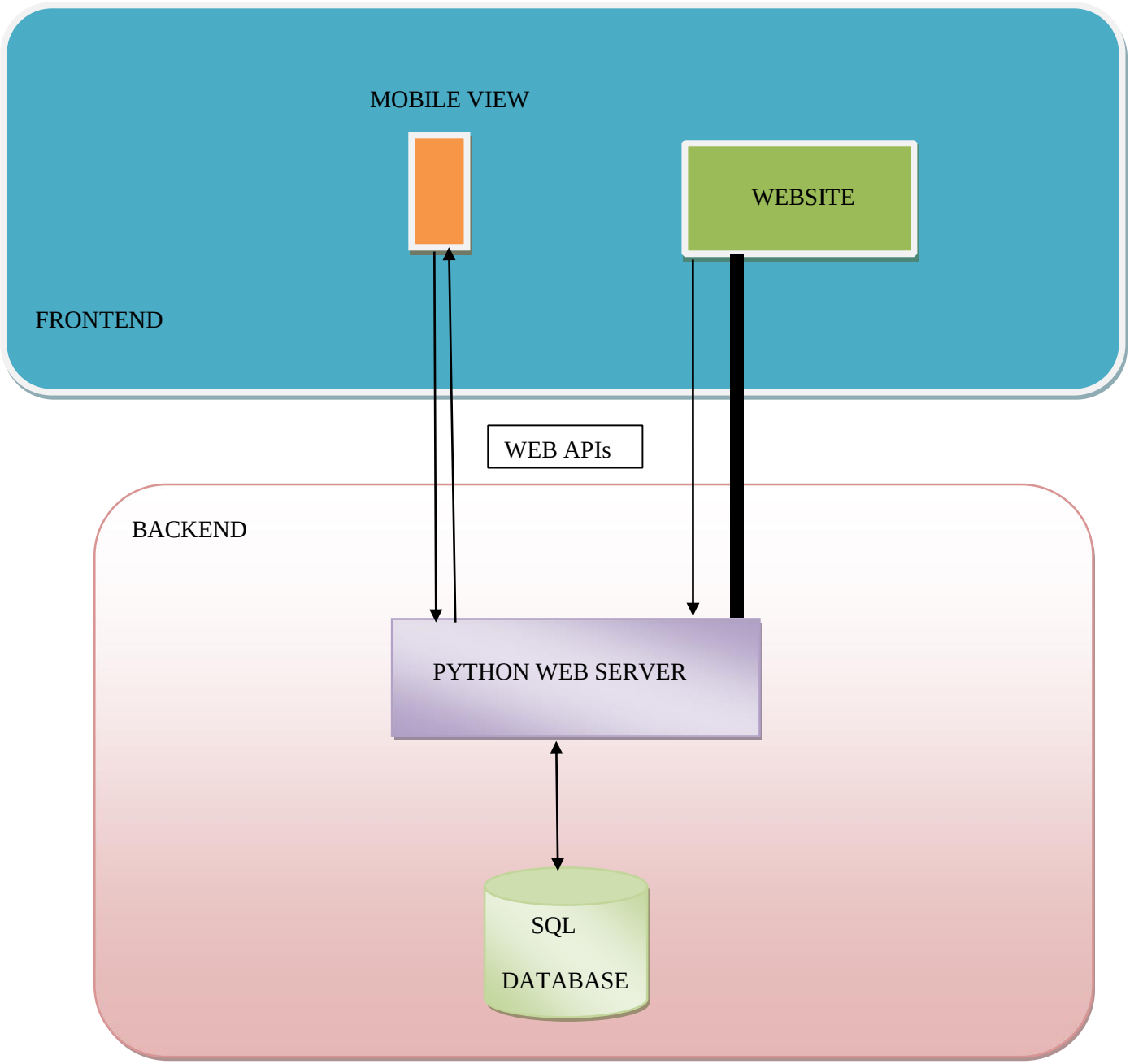
Staff Signature with date

Aim

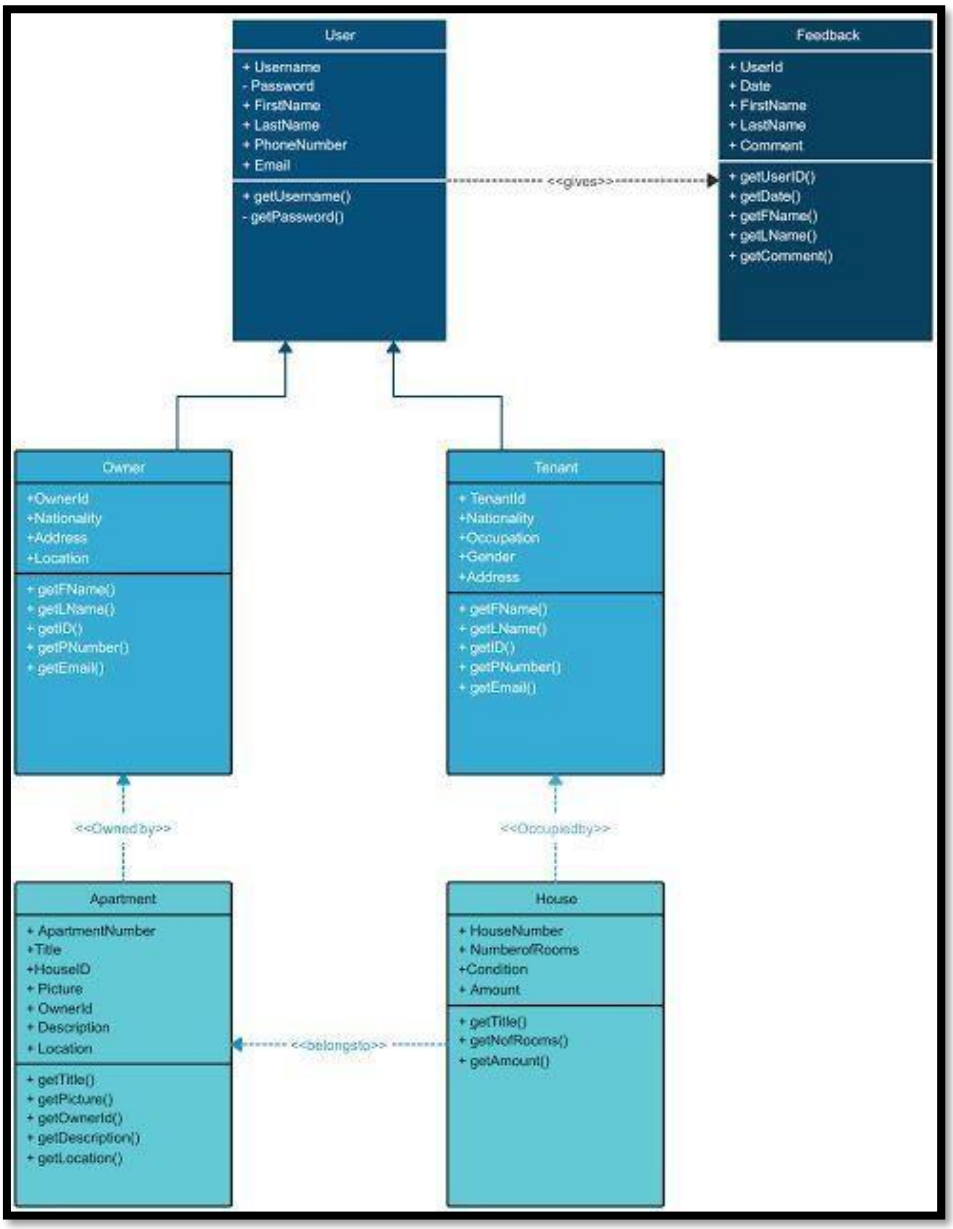
To Design a System Architecture, Use case and Class Diagram

Team Members:

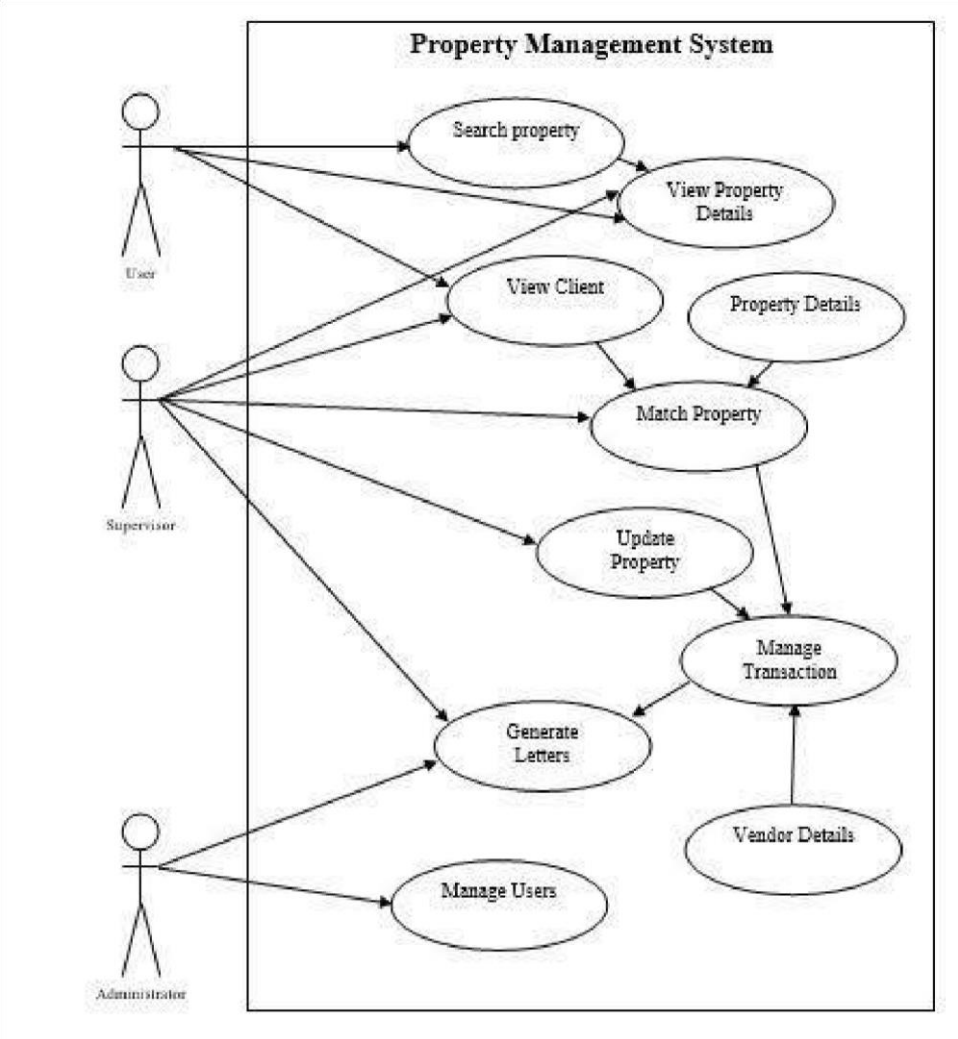
Sl No	Register No	Name	Role
1	RA2011032010046	RAHUL KUMAR	**TEAM LEAD**
2	RA2011032010039	ESHA DESWAL	**BACKEND**
3	RA2011032010068	R.PIRANESH	**FRONTEND**



CLASS DIAGRAM



USE CASE:


Property Management System
Search property
View Property Details
View Client
Property Details
Match Property
Update Property
Manage Transaction
Generate Letters
Vendor Details
Manage Users
User
Supervisor
Administrator

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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	7
Title of Experiment	Design a Entity relationship diagram
Name of the candidate	R.PIRANESH
Team Members	RAHUL KUMAR, ESHA DESWAL
Register Number	RA2011032010068
Date of Experiment	

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

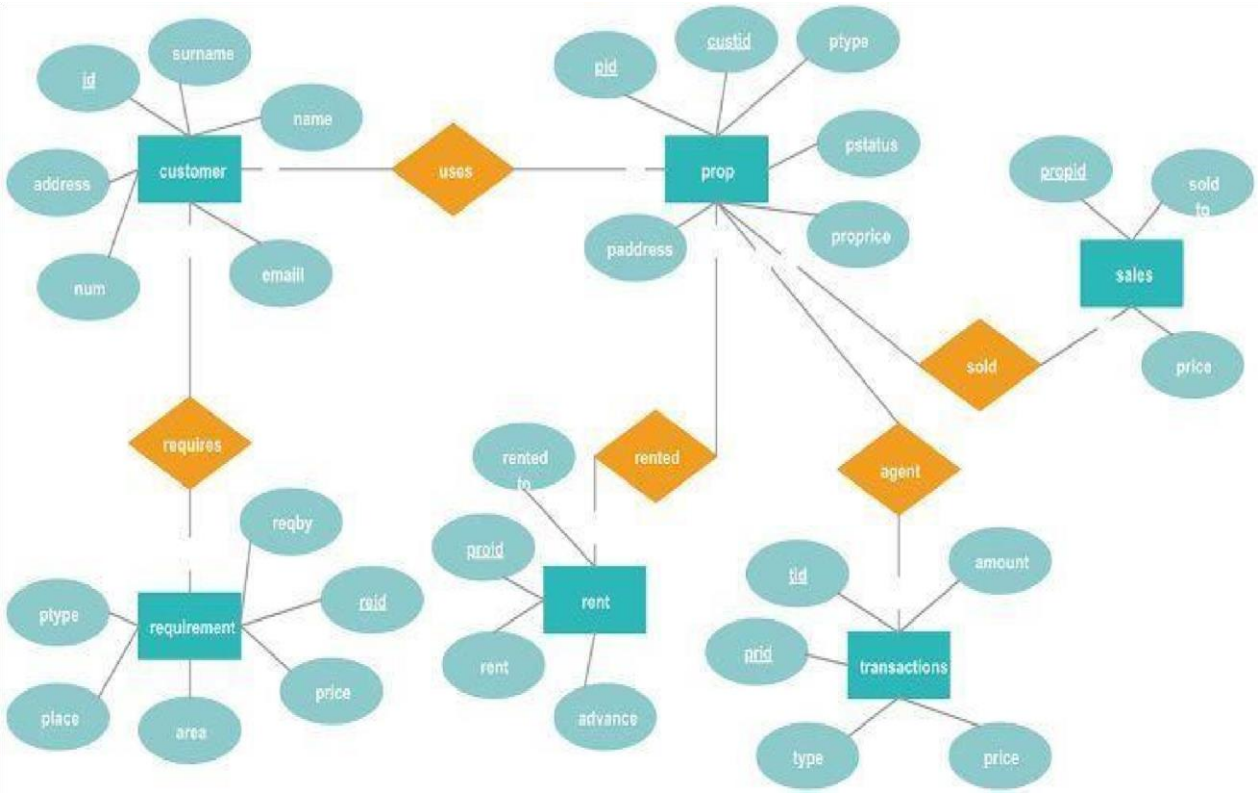
Aim

To create the Entity Relationship Diagram

Team Members:

S No	Register No	Name	Role
1	RA2011032010046	RAHUL KUMAR	TEAM LEAD
2	RA2011032010039	ESHA DESWAL	BACKEND
3	RA2011032010068	R.PIRANESH	FRONTEND

ER DIAGRAM:



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Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	8
Title of Experiment	Develop a Data Flow Diagram (Process-Up to Level 1)
Name of the candidate	R.PIRANESH
Team Members	RAHUL KUMAR, ESHA DESWAL
Register Number	RA2011032010068
Date of Experiment	

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Team Members:

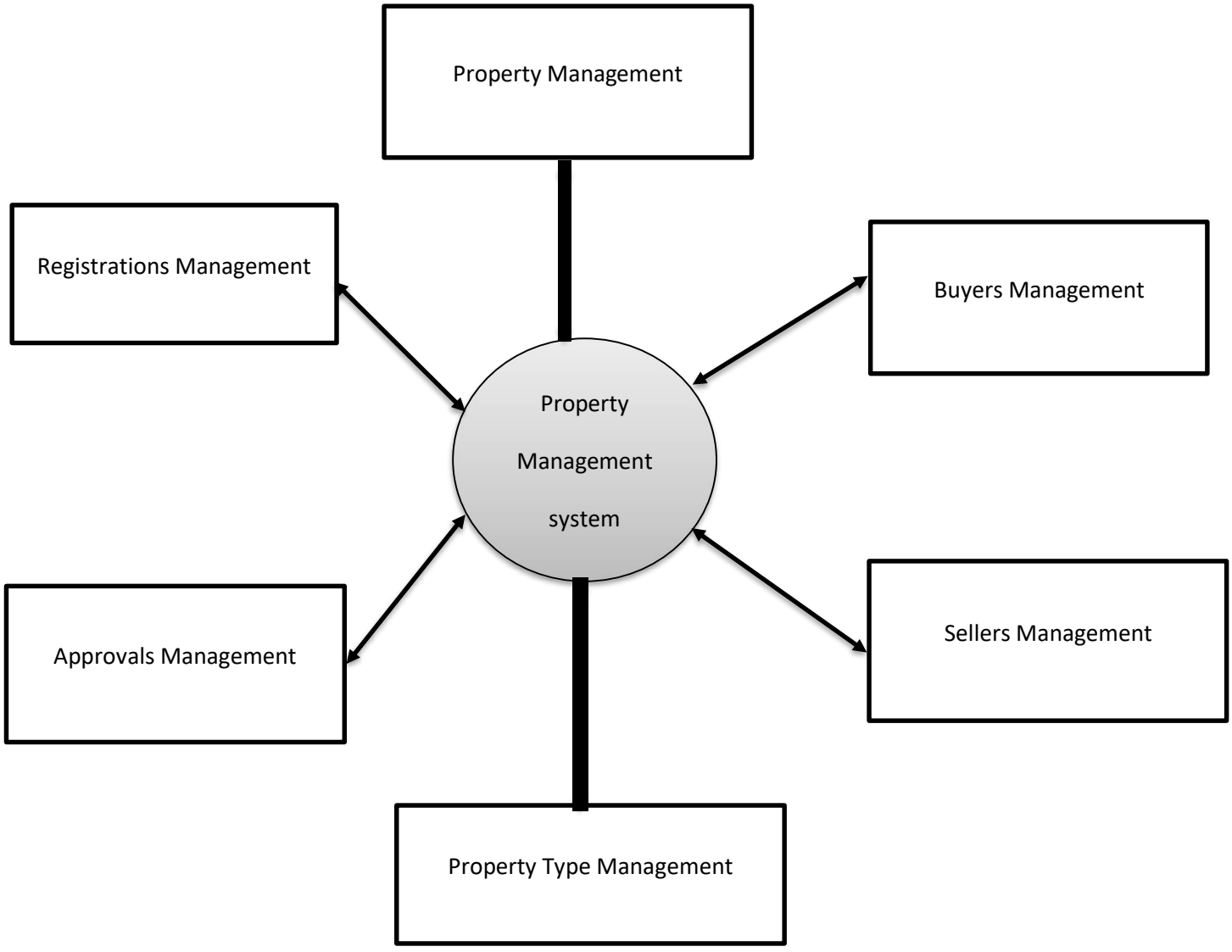
S No	Register No	Name	Role
1	RA2011032010046	RAHUL KUMAR	TEAM LEAD
2	RA2011032010039	ESHA DESWAL	BACKEND
3	RA2011032010068	R.PIRANESH	FRONTEND

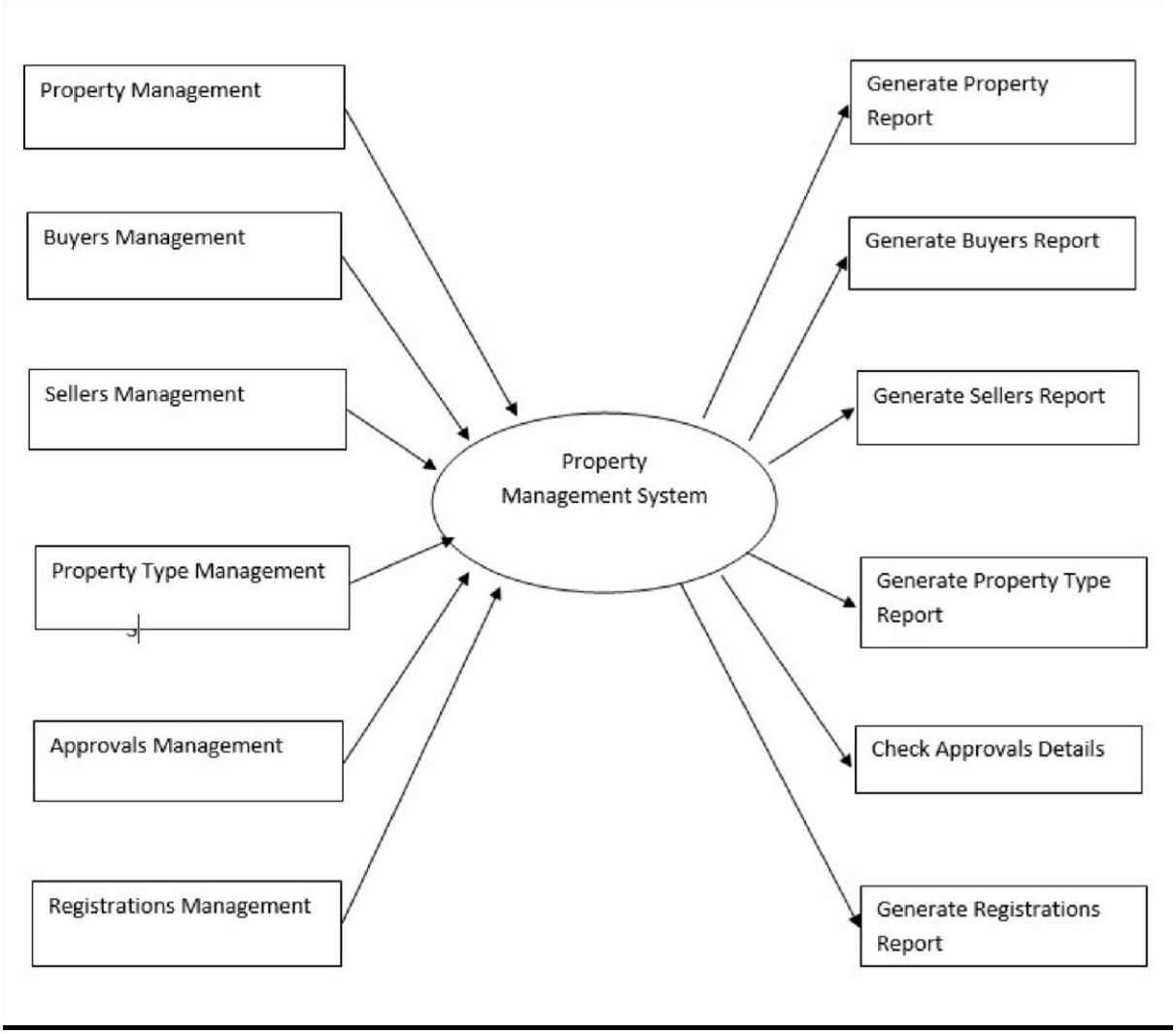
Aim

To develop the data flow diagram up to level 1 for the PROPERTY MANAGEMENT SYSTEM.

0 LEVEL DATA FLOW DIAGRAM

1ST LEVEL DATA FLOW DIAGRAM





Result:

Thus, the data flow diagrams have been created for the <project name>.

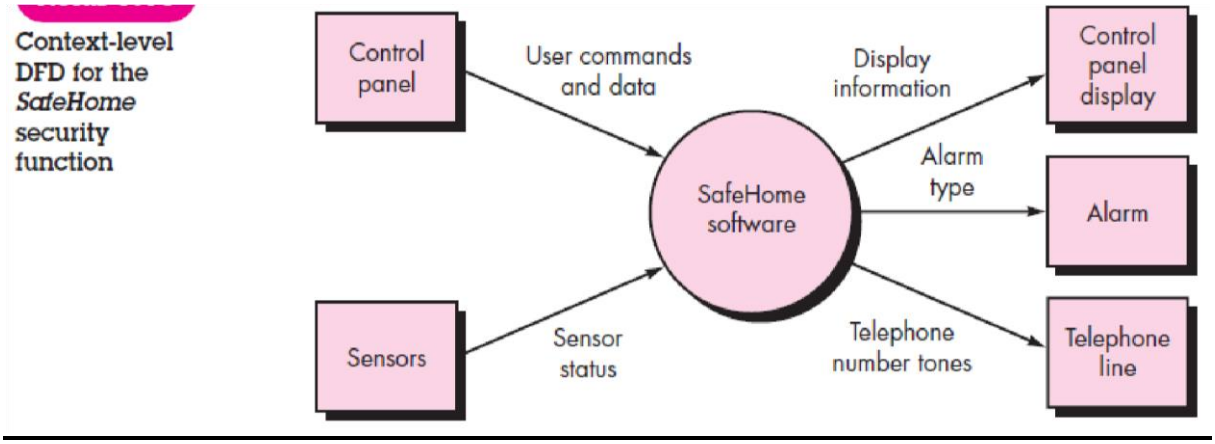
Data Flow Diagram

The DFD takes an input-process-output view of a system. That is, data objects flow into the software, are transformed by processing elements, and resultant data objects flow out of the software. Data objects are represented by labeled arrows, and transformations are represented by circles (also called bubbles). The DFD is presented in a hierarchical fashion. That is, the first data flow model (sometimes called a level 0 DFD or context diagram) represents the system as a whole. Subsequent data flow diagrams refine the context diagram, providing increasing detail with each subsequent level.

The data flow diagram enables you to develop models of the information domain and functional domain. As the DFD is refined into greater levels of detail, you perform an implicit functional decomposition of the system. At the same time, the DFD refinement results in a corresponding refinement of data as it moves through the processes that embody the application.
A few simple guidelines can aid immeasurably during the derivation of a data flow diagram:
(1) Level 0 data flow diagram should depict the software/system as a single bubble;
(2) Primary input and output should be carefully noted;
(3) Refinement should begin by isolating candidate processes, data objects, and data stores to be represented at the next level;
(4) All arrows and bubbles should be labeled with meaningful names;
(5) Information flow continuity must be maintained from level to level and
(6) One bubble at a time should be refined. There is a natural tendency to overcomplicate the data flow diagram. This occurs when you attempt to show too much detail too early or represent procedural aspects of the software in lieu of information flow.

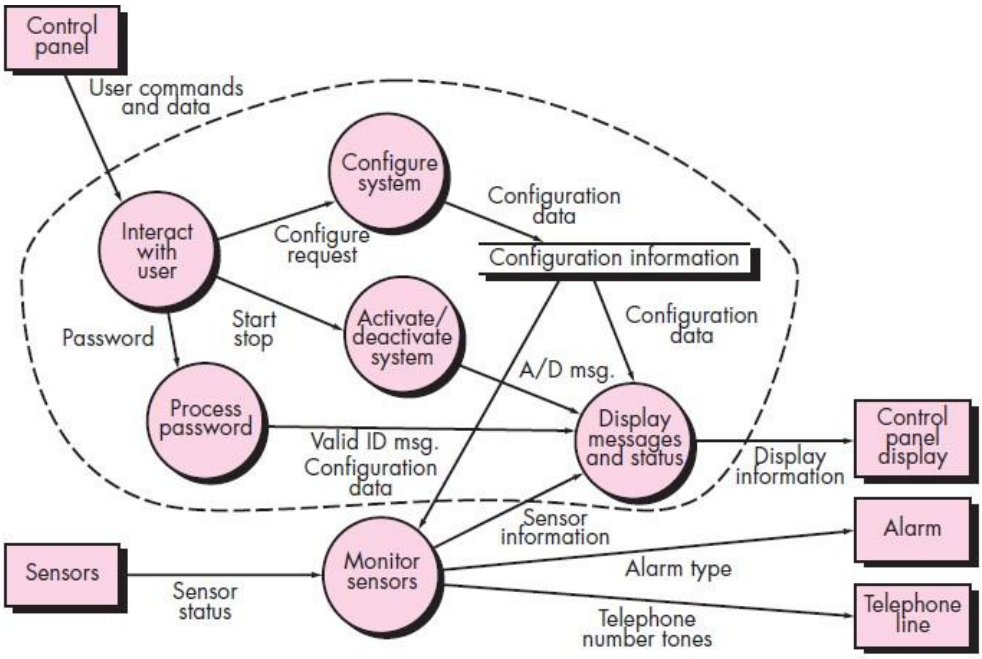
***/ For Example**

DFD Level 0



DFD Level 1

Level 1 DFD for the *SafeHome* security function



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	9
Title of Experiment	Design a Sequence and Collaboration Diagram
Name of the candidate	R.PIRANESH
Team Members	RAHUL KUMAR, ESHA DESWAL
Register Number	RA2011032010068
Date of Experiment	

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

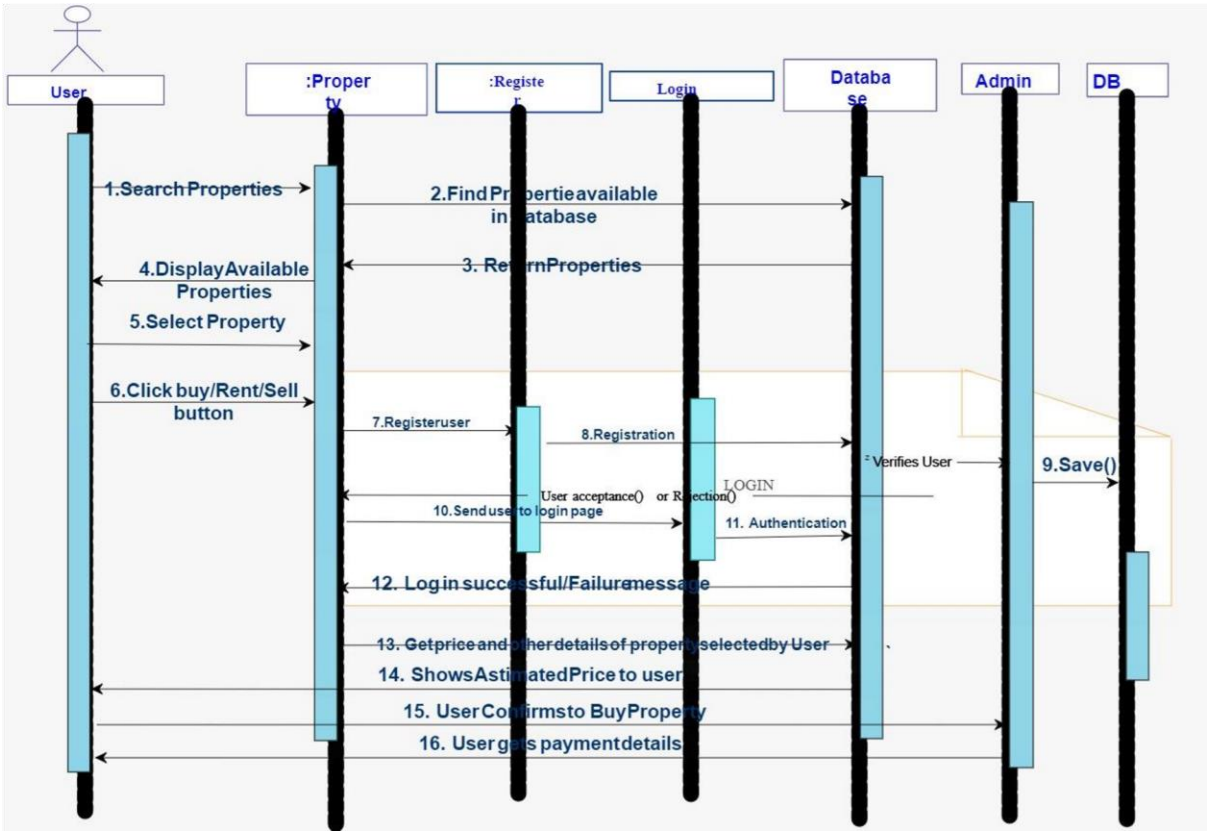
Aim

To create the sequence and collaboration diagram for the <project name>

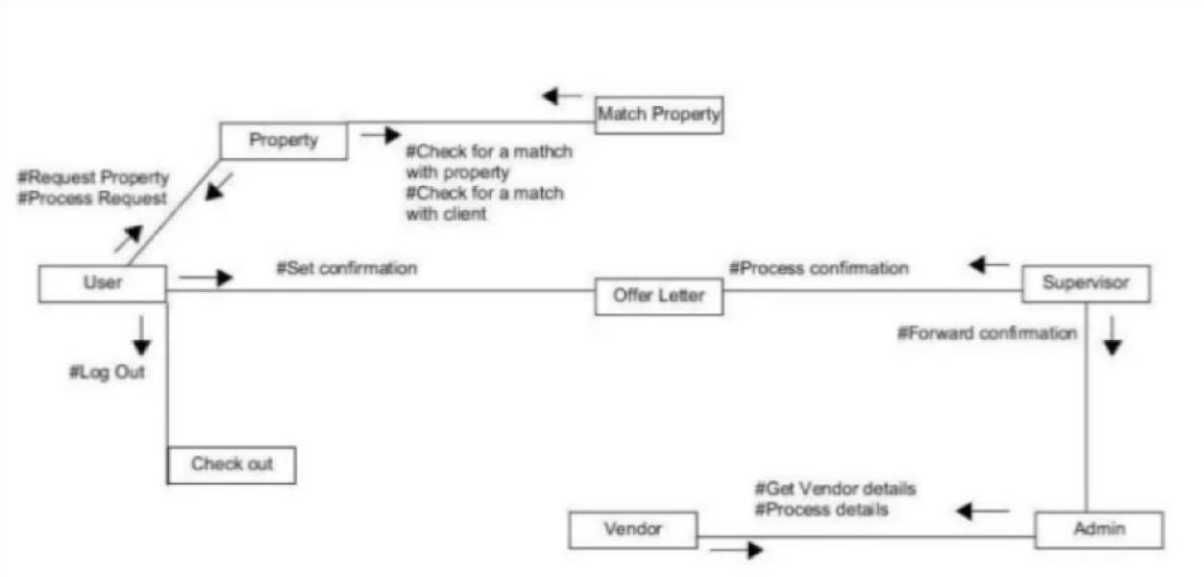
Team Members:

S No	Register No	Name	Role
1	RA2011032010046	RAHUL KUMAR	TEAM LEAD
2	RA2011032010039	ESHA DESWAL	BACKEND
3	RA2011032010068	R.PIRANESH	FRONTEND

SEQUENCE DIAGRAM



COLLABORATION DIAGRAM



Result:

Thus, the sequence and collaboration diagrams were created for the PROPERTY MANAGEMENT SYSTEM.

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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	10
Title of Experiment	Develop a Testing Framework/User Interface
Name of the candidate	R.PIRANESH
Team Members	RAHUL KUMAR, ESHA DESWAL
Register Number	RA2011032010068
Date of Experiment	

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim

To develop the testing framework and/or user interface framework for the <project name>

Team Members:

S No	Register No	Name	Role
1	RA2011032010046	RAHUL KUMAR	TEAM LEAD
2	RA2011032010039	ESHA DESWAL	BACKEND
3	RA2011032010068	R.PIRANESH	FRONTEND

FUNCTIONAL:

Information and Communication Technology plays a great role in different fields and areas. Real Estate business is one area which is also affected.

It is necessary to ensure a technologically appropriate, efficient, affordable, user-friendly system to benefit the Property management system . For this reason, this system is being built.

In general, the system is based on computer technology that gives service to users. The system will ensure time-saving, saving resources, easy approach to your requirements, as well as bring on more security.

SCOPE:

In these days there is a lot of demand of online property website so we provide the users with a platform where they can easily find the best available properties and can bid for the property. The website will have the properties within Pakistan.

OBJECTIVE:

It is a user-friendly application for property which provides the user to search the property according to their demands and range on just one click.

Proposed System

The Property Management System is designed in order to eliminate the problem of the current system. This accessibility of the information will be a great advantage as it reduced effort.

The system handles all aspects of viewing and bidding of the property. It allows the seller to post the property, delete the property and modify the current property.

APPROACH:

Property companies, estate agents, and firms of chartered surveyors have generally been slow to recognise the opportunities offered by the computer industry. With the exception of the estate agents' market the reverse is also true. Although computer suppliers have flooded the estate agent market with systems, there has been little development on behalf of property companies. What progress there has been has tended to be piecemeal development of rent billing systems. This is now changing and we are beginning to see the emergence of software packages designed to meet the full spectrum of property company requirements, and in particular property management. The few packages that are available vary greatly in quality and sophistication as do the requirements of individual companies. If you are considering computerising your property management systems a cautious approach is desirable.

TEST PLAN:

A Test Plan is a detailed document that describes the test strategy, objectives, schedule, estimation, deliverables, and resources required to perform testing for a software product. Test Plan helps us determine the effort needed to validate the quality of the application under test. The test plan serves as a

blueprint to conduct software testing activities as a defined process, which is minutely monitored and controlled by the test manager.

SCOPE OF TESTING:

User interface-> That we are designing is simple to read through and is user friendly

Usability-> Our project will be easy to use and will be accessible across the platforms

Types of Testing, Methodology, Tools:

CATEGORY	Methodology	Tools Required
GUI	Functionality Testing	Sublime text,V.S Code
GUI	Usability Testing	Chrome Developer tools
GUI	Functionality Testing	Sqlquery
GUI	Web UI Testing	Github
GUI	Security Testing	BurpSuit

Result:

Thus, the testing framework/user interface framework has been created for the Property Management System

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SRM IST, Kattankulathur – 603 203 Course

Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	11
Title of Experiment	Test Cases
Name of the candidate	R.PIRANESH
Team Members	RAHUL KUMAR , ESHA DESWAL
Register Number	RA2011032010068
Date of Experiment	6.06.2022

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim

To develop the test cases manual for the Property Management System.

Team Members:

S No	Register No	Name	Role
1	RA2011030010155	RAHUL KUMAR	TEAM LEAD
2	RA2011030010156	ESHA DESWAL	BACKEND DEVELOPER
3	RA2011030010159	R. PIRANESH	FRONTEND DEVELOPER

Test Case

Functional Test Cases

Test ID (#)	Test Scenario	Test Case	Execution Steps	Expected Outcome	Actual Outcome	Status	Remarks
1	Enter Valid Username and Password	Bunty ********	1. User clicks on User Registration link 2. Enter the Username and Password 3. Click on Login button	Show home page for Bunty	Displayed home page for Bunty	Pass / Failure	success

2	Enter Invalid Username and Password	Bunty ***	1. User clicks on User Registration link 2. Enter the Username and Password 3. Click on Login button	Show Error	Printed " You are not Registered"	Pass / Failure	success
3	Enter the desired BHK flat	2BHK with balcony	1. Enter the category clothing 2. Enter the amount 3. Click on check	Update category table with 2BHK with balcony	Updated category table with 2BHK with balcony	Pass / Failure	Success
4	Enter date for sight seeing	2023/05/09	1.Enter the date 2.Enter the category and price	Show error in entering future dates	Updated table with future date	Pass/fail	fail

Non-Functional Test Cases

Test ID (#)	Test Scenario	Test Case	Expected Outcome	Actual Outcome	Status	Remarks
1	Perfor mance Testing	Website load time should not be more than 5 secs up to 1000 users accessing it simultaneously	Website should be responsive	Website	Websit e	Working Fine
2	Go to homep age	Homepage shows new login	Shows the homepage for a new login	Shows the homepage for a new login	Pass	Working FIne

Result:

Thus, the test case manual has been created for the Property Management System

School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	12
Title of Experiment	Manual Test Case Reporting
Name of the candidate	R.PIRANESH
Team Members	RAHUL KUMAR, ESHA DESWAL
Register Number	RA2011032010068
Date of Experiment	

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim

To prepare the manual test case report for the Property management system.

Team Members:

S No	Register No	Name	Role
1	**RA2011032010046**	**RAHUL KUMAR**	**TEAM LEAD**
2	**RA2011032010039**	**ESHA DESWAL**	**BACKEND**
3	**RA2011032010068**	**R.PIRANESH**	**FRONTEND**

TEST CASE	TEST CASE DESCRIPTION	TEST DATA	EXPECTED RESULT
1.	CHECK RESPONSE WHEN VALID LOGIN ID AND PASSWORD IS ENTERED	LOGIN ID: RAHUL pass: 12345	Login should successful and redirect to main menu
2.	SELECT REQUIRED FUNCTIONS	add category selected	Add category window open
3.	ADD CATEGORY FUNCTION	ADD RENT/COST TO DATABASE	DATABASE SUCCESSFULLY CREATED

DEFECT LOG

REQUIREMENT	DEFECT ID	DEFECT DESCRIPTION	ASSIGNEE	STATUS
A01	FULL SCREEN VIEW	CANNOT MAXIMIZE THE SCREEN	FRONTEND DEVELOPER	COMPLETED
A02	MAKING	CANNOT	BACKEND	COMPLETED
	DATABASE USING ROWS AND COLUMNS	GET CUSTOMIZED DATABASE FOR THE USER	DEVELOPER	

Category	Progress Against Plan	Status
Functional Testing	SUCCESSFUL	In-Progress
Non-Functional Testing	SUCCESSFUL	In-Progress

Functional	Test Case Coverage (%)	Status
Verifying Data	100%	Completed
REDIRECT TO NEW WINDOW	100%	Completed
Logout button	100%	Completed
Exit Button	100%	Completed

Result:

Thus, the test case report has been created for the Expense Tracker.

School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	13
Title of Experiment	Provide the details of Architecture Design/Framework/Implementation
Name of the candidate	R.PIRANESH
Team Members	RAHUL KUMAR, ESHA DESWAL
Register Numbers	RA2011032010068
Date of Experiment	

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

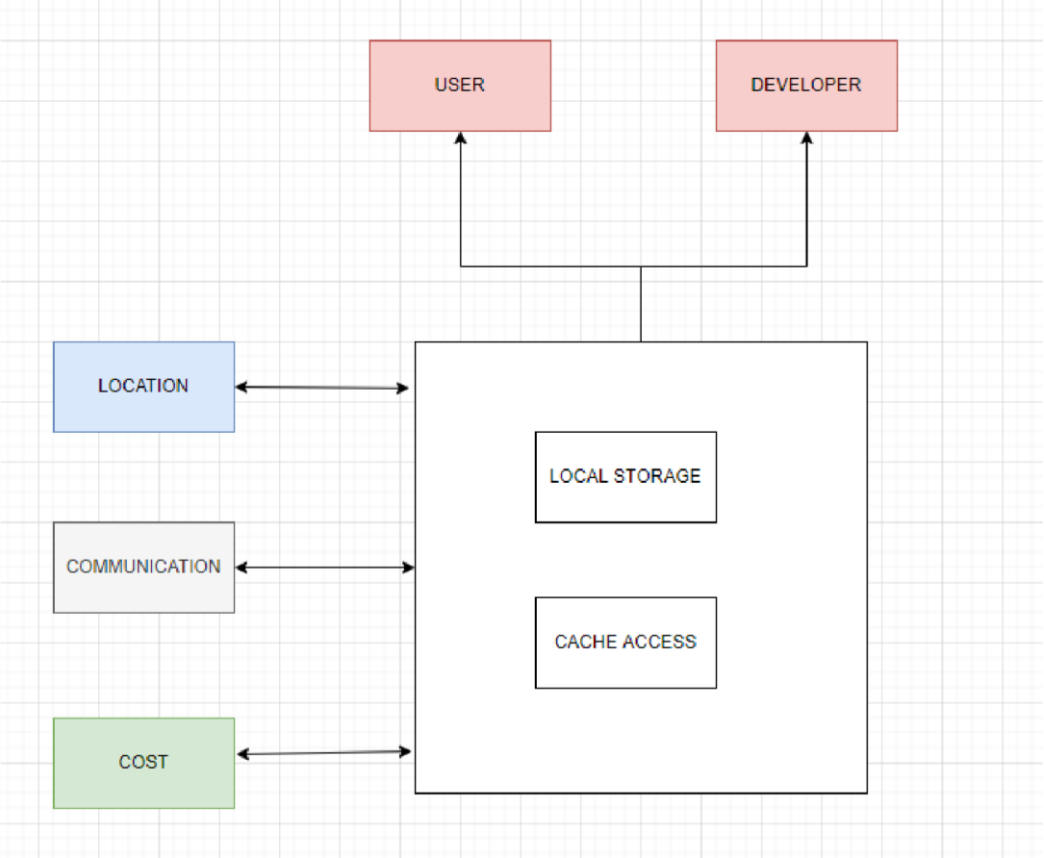
Aim

To provide the details of architectural design/framework/implementation

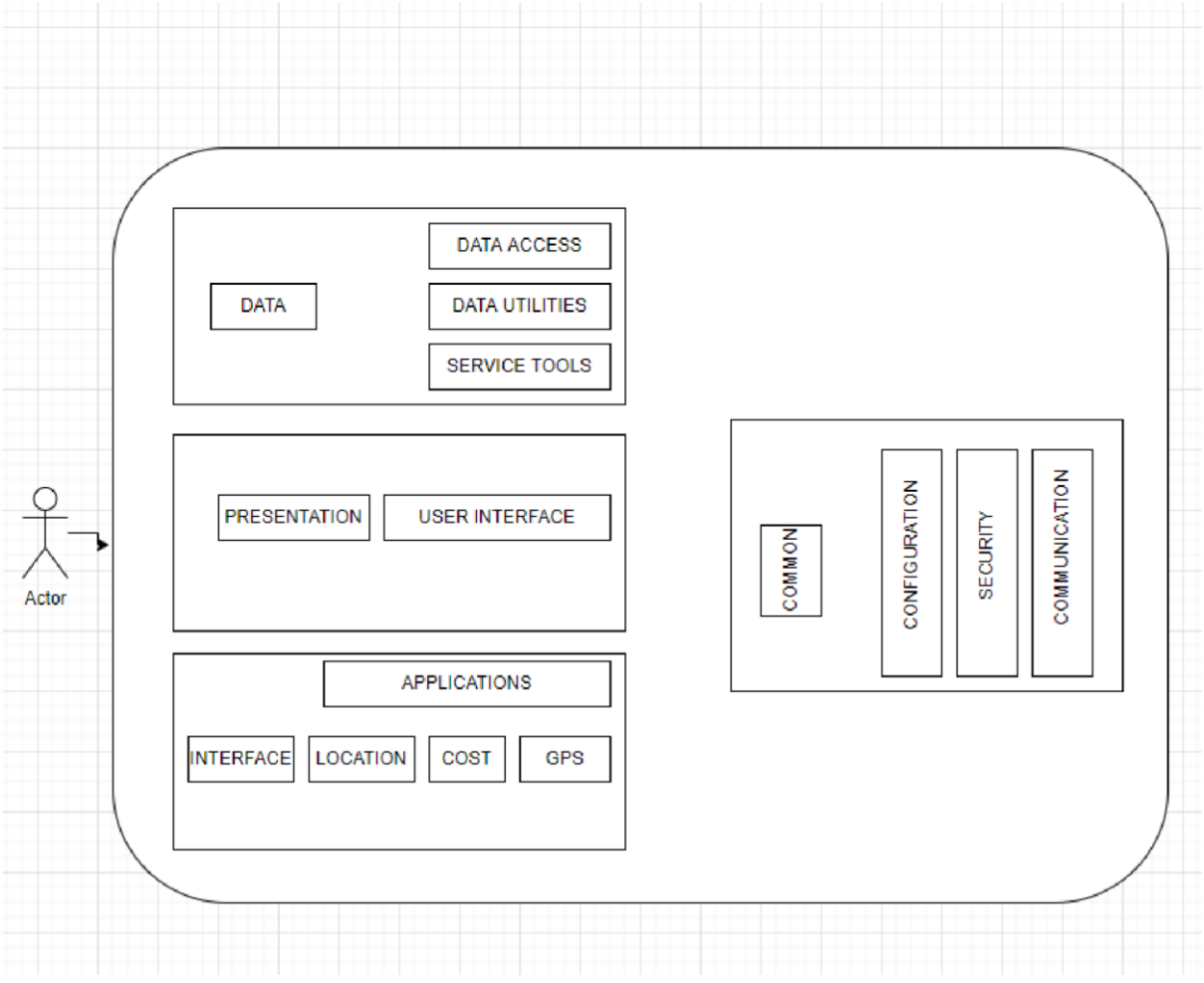
Team Members:

S No	Register No	Name	Role
1	RA2011032010046	RAHUL KUMAR	TEAM LEAD
2	RA201032010039	ESHA DESWAL	BACKEND
3	RA2011032010068	R.PIRANESH	FRONTEND

ARCHITECTURE:



FRAMEWORK:


DATA ACCESS
DATA
DATA UTILITIES
SERVICE TOOLS
PRESENTATION
USER INTERFACE
Actor
APPLICATIONS
INTERFACE
LOCATION
COST
GPS
COMMON
CONFIGURATION
SECURITY
COMMUNICATION

SCREENSHOT:

Contact Us

- **Toll Free - 1800 9887 343**
- Monday to Saturday(9:00AM to 11:00PM IST)
- **Email** - feedback@newkey.com

SOURCE CODE:

```
{% extends 'home/index.html' %}
{% block content %}

<!-- Header -->
<header class="w3-display-container w3-content w3-wide main" style="max-width:1500px;" id="home">
  <img class="w3-image cont" src="https://i.postimg.cc/HWXzMtF2/1-apartments-for-rent-torontoON-2020-sheppard-exterior.jpg" alt="Architecture">
</header>
<br><br>
<!-- Page Content-->

<!-- New Projects-->
<h3>Featured Projects</h3>
<hr>
<br><br>
<div class="row">
  <div class="column">
    <p>
      <img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSBE4EpC9W2K8cyM4rr_v5wF6IUEG5Na39YRExzicZaQ8D8l-Nddi4mngxQayd2hbXuSh8&usqp=CAU" alt="" width="90%" height="220px">
      <h4 class="apptname">KCB Appartments</h4>
      <h5 class="sqft">1,270 sq.ft, 2BHK</h5>
```

```
    <div class="city">Medavakkam, Chennai</div>
    <h6 class="price"> ₹18 Lac onvwards</h6>
   </p>
  </div>
  <div class="column">
   <p>
    <img src="https://dynamic-media-
cdn.tripadvisor.com/media/photo-o/1b/18/3f/8b/accra-luxury-
apartments.jpg?w=900&h=-1&s=1" alt="" width="90%"
height="220px">
    <h4 class="apptname">KCB Appartments</h4>
    <h5 class="sqft">1,270 sq.ft, 2BHK</h5>
    <div class="city">Medavakkam, Chennai</div>
    <h6 class="price"> ₹18 Lac onvwards</h6>
   </p>
  </div>
  <div class="column">
   <p>
    <img
src="https://teja12.kuikr.com/is/a/c/1200x500/gallery_images/origi
nal/cf5d9834aa789f9.gif" alt="" width="90%" height="220px">
    <h4 class="apptname">KCB Appartments</h4>
    <h5 class="sqft">1,270 sq.ft, 2BHK</h5>
    <div class="city">Medavakkam, Chennai</div>
    <h6 class="price"> ₹18 Lac onvwards</h6>
   </p>
  </div>
</div>
<br><br>
<!-- About -->
<h3>About OneHousing</h3>
```

```
<hr> <br> <br>
<div>
  <p class="abt">
    <strong>We make a Difference!</strong>
    OneHousing is the best online Property marketplace to buy, sell, and rent residential and commercial properties.
    Adjudged as the most preferred real estate portal in India by various independent surveys. Find, Buy & Own Your Dream Home.
    Explore from Apartments, land, builder floors, villas and more..
</p>
</div><br>
<!-- Contact Us-->
<h3>Contact Us</h3>
<hr> <br> <br>
<div>
  <ul class="abt">
    <li><strong>Toll Free - 1800 9887 343</strong></li>
    <li>Monday to Saturday(9:00AM to 11:00PM IST)</li>
    <li><strong>Email</strong> - feedback@onehousing.com</li>
  </p>
</div>
<br><br>
<div class="w3-container">
  <img
src="https://www.cmautah.com/wpcontent/uploads/2019/11/mesa-arizona-crimson-commonsarchitecture.jpg" width="100%",
height="500px"> </div>
{% endblock content %}
```

Result:

Thus, the details of architectural design/framework/implementation along with the screenshots were provided.