

REAL ESTATE MANAGEMENT SYTSEM

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Problem Statement –

With the increase in the number of transactions at a branch, the total workload of the staff has become so big that the company is employing more staff to handle the ever increasing amount of paper work. There is also a legal requirement to produce detailed monthly, quarterly and annual reports. Management also needs summarized statistical data in order to have access to all the data pertinent to a decision. Inferential statistics always act as a tool to have a look at all the data of an organization in a precise, summarized form. Clearly, the manual system is inadequate for this type of work. The file system was originally developed in response to the needs of the company for more efficient data access. However, rather than establish a centralized store for a branch's operational data, a decentralized approach was taken, where each department stores and controls its own data. This kind of system has the following disadvantages:

- i. Data is isolated making it more difficult to access.
- ii. Most data items handled by more than one department are duplicated in each department leading to the wastage of time and resources.
- iii. The data is not secure since any time the files can be stolen or can catch fire.

To become more effective, a new approach to the information needs of the company is required. A computer based information system can act as the most efficient way to handle all the information needs of Property Masters, using a database and a database management system. The advantages of using a computer in a management information system are:

- i. When used as a data storage and retrieval device, the computer acts as the data librarian.
- ii. The computer provides processing capabilities for the production of information.
- iii. The computer serves as a communication device to obtain data or information from other computers.
- iv. The computer provides information by producing tables, reports, charts, graphs, and formatted documents.
- v. Statistical data can be easily analyzed using a computer.

Abstract -

As the name of the project indicated, Real Estate Management System has the main aim of to developing a system that is meant to provide an online platform estate agency that will help users to sell, buy, or rent houses. This web application will be as an alternative to the traditional estate agents encountered in some place in the street. In fact, many house occupants find difficulties to find the right, trustworthy, and honest estate agent who will help them to find the perfect client, and vice-versa. Moreover, it is difficult sometimes to find the location of these agents. Therefore, this application will be an intermediary between both clients and house sellers/renters as it is going to be along with both parts during the whole process of house renting, selling, or buying.

Functional Requirements –

For the User

- a. Register
 - Registration will be based on the First and Last name, Email address, Password, Secret Question, and Secret Answer (for security matters). In addition to the date of birth and gender.
- b. Login
 - Login will be based on the Email address a long with the Password. An error message will be displayed in case one of the two does not match.
- c. Book Property
- d. Cancel Property
- e. Enquiry
- f. Post Requirements

For the sellers

- a. Register
- b. Add property
- c. Delete property
- d. Receive Money

For the Admin/Employees

- a. Manage Users
 - i. Add User
 - ii. Modify User
 - iii. Delete User
 - iv. Search for User

1. By First Name
2. By Last Name
3. By Date of Registration

b. Manage Testimonials:

- i. Add Testimonial
- ii. Delete Testimonial
- iii. Modify Testimonial
- iv. Search for testimonial

1. By User
2. By Date

c. Manage Announcements:

- i. Add Announcement
- ii. Modify announcement
- iii. Delete announcement
- iv. Search for announcement

1. By Address or city
2. By Category
3. By Price

d. Manage Employees: (Exclusive for the admin)

- i. Add Employee
- ii. Modify Employee
- iii. Delete Employee
- iv. Search for Employee

1. By First Name
2. By Last Name
3. By ID

e. Manage transactions :

- i. Add Transaction
- ii. Modify Transaction
- iii. Delete Transaction
- iv. Search for Transaction

1. By Date

2. By Registration

f. Manage Payments:

- i. Add Payment
- ii. Modify Payment
- iii. Delete Payment
- iv. Search for Payment
 - 1. By Date
 - 2. By Type
 - 3. By Transaction

g. Manage Visitations:

- i. Add Visitation
- ii. Modify Visitation
- iii. Delete Visitation
- iv. Search for Visitation
 - 1. By Registration
 - 2. By Employee
 - 3. By Date

Non-Functional Requirements –

1. The web-application must be coded using Php5, along with CSS, HTML5, and JavaScript.
2. For the database, it should be managed using MySql.
3. The application must have a user-friendly interface so that it can provide its services in a way that will be clear and easy for the user to follow.
4. The application must be secure, reliable, easily accessible to users, as well as scalable and portable. So that we can run the software on other platforms easily.
5. For the security part, and since the user will have the ability to insert some sensitive data to our database, I must add some strong PHP code behind that will prevent from any kind of SQL injections or any similar attacks.

Software Requirement Specification –

Software Requirements –

Operating system – Windows 7 to higher, Mac, linux, Solaris

Browser – Any browser after Mozilla Firefox 4.0, Internet Explorer 6.0 Chrome all version

Adobe Flash Player 10.0

Hardware Requirement –

Processor - Any Processor after Pentium 3

Ram – 2 GB

Active internet connection is needed

Usability -

Reliability & Availability

Back-end Internal Computers

The system shall provide storage of all databases on redundant computers with automatic switchover.

The system shall provide for replication of databases to off-site storage locations.

The system shall provide RAID V Disk Stripping on all database storage disks.

Internet Service Provider

The system shall provide a contractual agreement with an internet service provider for T3 access with 99.9999% availability.

The system shall provide a contractual agreement with an internet service provider who can provide 99.999% availability through their network facilities onto the internet.

Performance

The product shall be based on web and has to be run from an Application.

The product shall take initial load time depending on internet connection strength which also depends on the media from which the product is run.

The performance shall depend upon the internet speed of the client/customer.

Security

Data Transfer

The system shall use secure sockets in all transactions that include any confidential customer information.

The system shall automatically log out all customers after a period of inactivity.

The system shall not leave any cookies on the customer's phone containing the user's password.

The system shall not leave any cookies on the customer's computer containing any of the user's confidential information.

Data Storage

The customer's web browser shall never display a customer's password. It shall always be echoed with special characters representing typed characters.

The system's back-end servers shall never display a customer's password. The customer's password may be reset but never shown.

The system's back-end servers shall only be accessible to authenticated administrators.

The system's back-end databases shall be encrypted

Supportability

Configuration Management Tool

The source code developed for this system shall be maintained in configuration management tool.

Design Constraints

User/ Administrator must register to access the portal. The mobile number must be a 10 digit number.

Login information consists of email address and password

Standard Development Tools

The system shall be built using a standard web page development tool that conforms to either IBM's CUA standards or Microsoft's GUI standards.

On-line User Documentation and Help System Requirements:

As the system is real estate management system, On-line help system becomes a critical component of the system which shall provide –

It shall provide specific guidelines to a user for using the real estate management system.

To implement online user help, link and search fields shall be provided.

3.9 Purchased Components: Not Applicable

Activity Diagram –

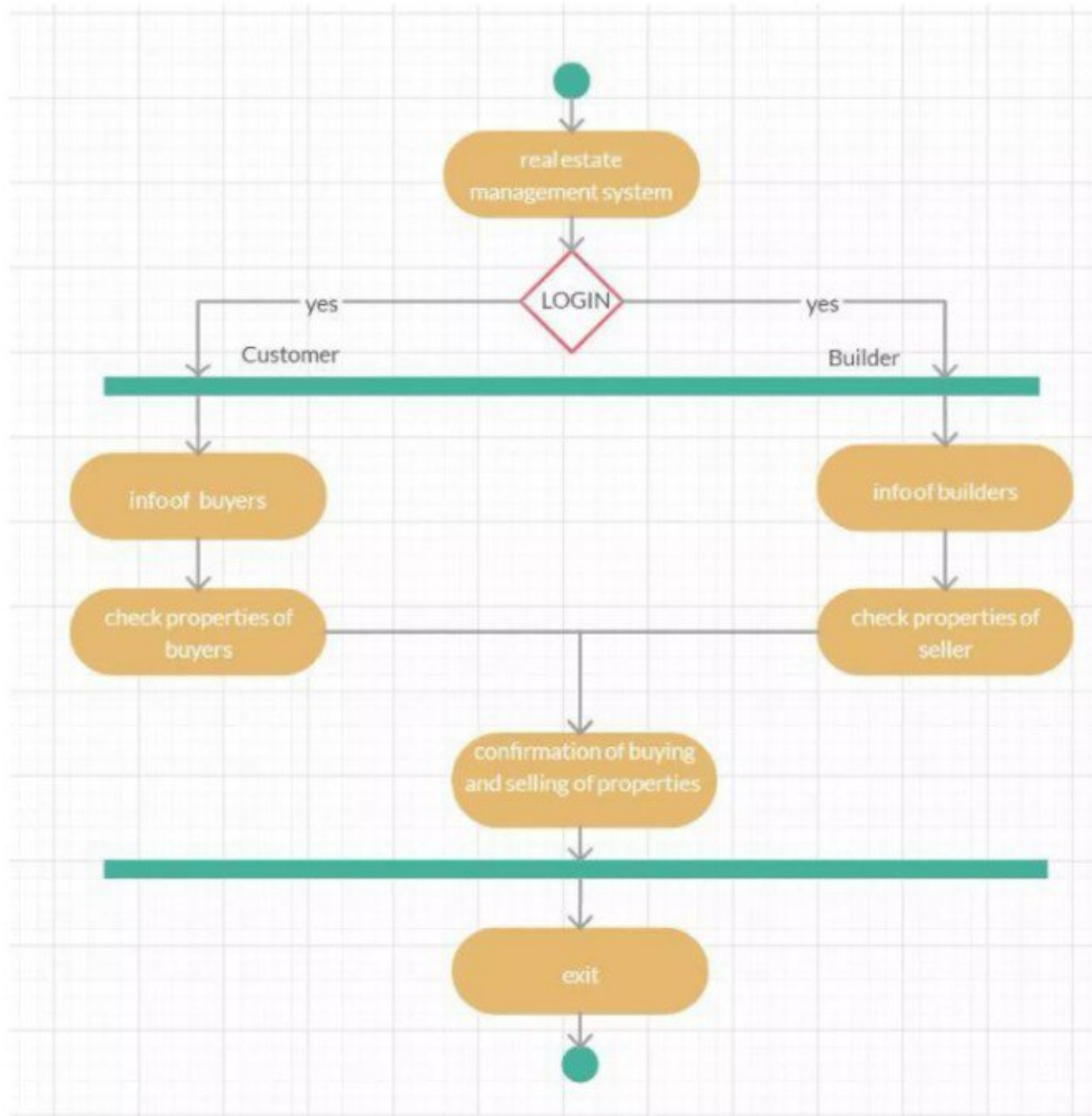
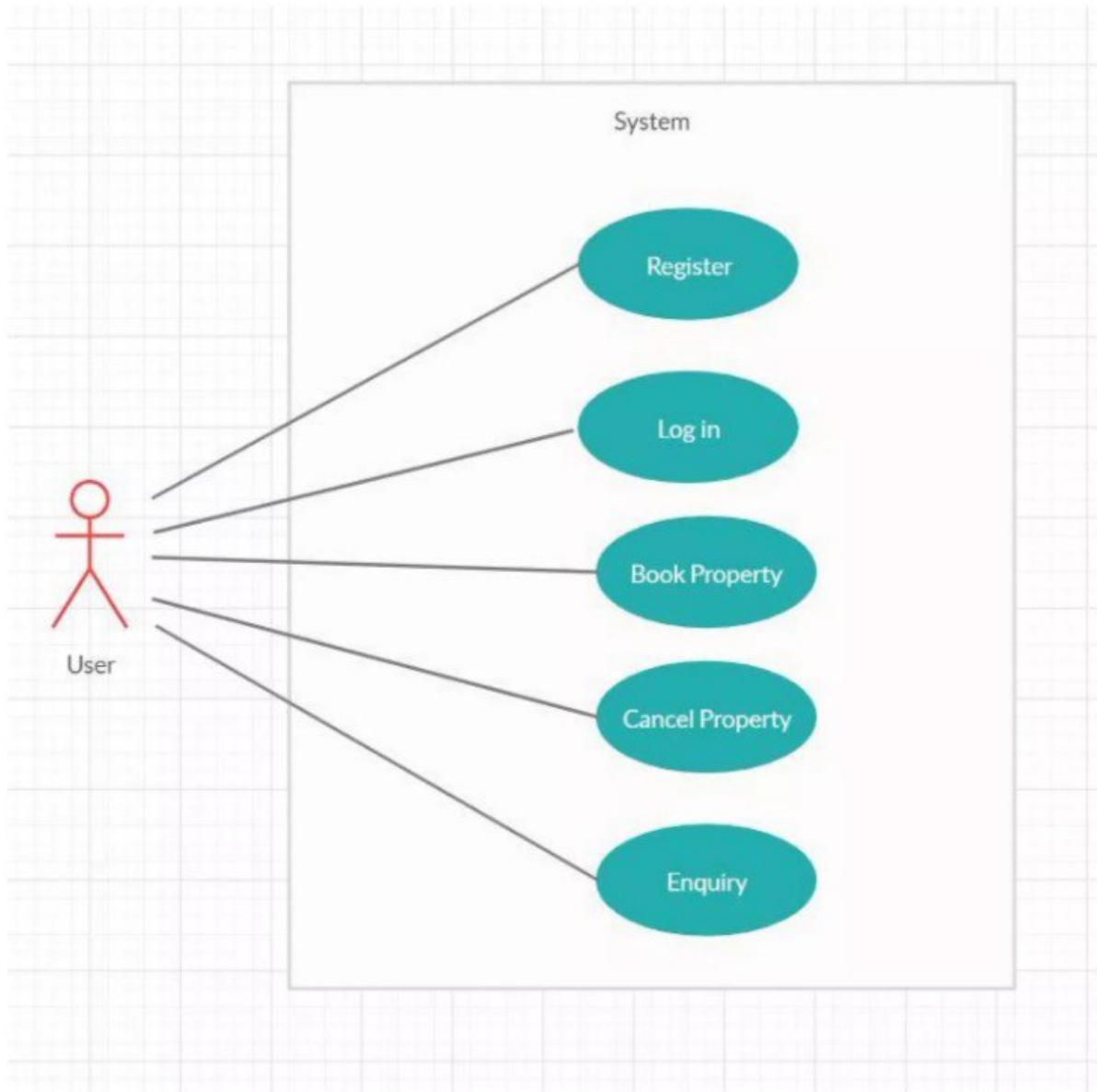


Diagram created from creately

Use Case Diagram –

USE CASE DIAGRAM FOR USERS -



Use case diagram for Users

Class Diagram –

