2020



**BENAA**

**REAL ESTATE**

**SYSTEM**

**Version [0.1]**

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## Project purpose

**CHAPTER-1**

**Introduction**

This website is an **Online real estate business web application** through which a **Company can access its information and manage all** the adding, updating, deleting the assets and some of its tasks.

The **Admin user** can **change and update** the information regarding **property selling and manage all clients and company agents**. The system is very useful for the companies who develop apartments, villa, residential properties and commercial properties. Company agents can also advertise their properties.

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## Project scope

The real of world wide web have spread across millions of households, so naturally, Internet has become by far the best platform for real estate marketing today.

Now days when everything is online, how is it possible that real estate left web application behind. There are lot of real estate companies who advertise their property online so idea behind developing this application buying properties using this. These applications are not widely popular but in future, they have large scope of growth to cope with nowadays technologies and help the company to manage all its data for their users and properties.

This website is an online real estate management through which **individual agents or buyer can maintain their property document keeping and managing property registration and also access its information and manage all the adding, updating, deleting and some of its tasks. The** **Admin user can inform their agents for regarding to property and update the information regarding property and cancellation of property or changing buyer choice and, generate reports and assigns tasks for agents and give policies to their agents.**

The system is very useful for the company that can **post and edit** their properties and their personal info and **admin can monitor records of all of them**. The system is also useful which also **keeps track of Account details of buyers.**

## Project Objectives

* + - The system should have a **login**. A login box should appear when the system is invoked.
    - The Admin should have all the type of **authority.**
    - The Admin should **maintain property**. Admin **identify** property type as it is residential.
    - The Admin user can **inform their agents for a property and update the information** regarding property and **cancellation** of property or **changing** buyer choice.
    - The user should **book the property with detail** of property.
    - The system is very useful for the company that can **post and edit** their properties and their personal info and admin **can monitor records** of all of them.
    - The system is also useful which also keeps track of **Account details of buyers** and **generate reports**.

## Project Goals

* + - **Planned approach towards working**: - The working in the organization will be well planned and organized. The data will be stored properly in **data stores**, which will help in retrieval of information as well as its storage.
    - **Accuracy**: - The level of accuracy in the proposed system **cannot be decided**. There is no guarantee.
    - **Reliability**: - The reliability of the proposed system will be **high** due to the above stated reasons. The reason for the increased reliability of the system is that now there would be proper storage of information.

## Scope:

**CHAPTER-2**

**System Requirement Specifications**

The real of World Wide Web have spread across millions of households, so naturally, Internet has become by far the best platform for real estate marketing today.

Now a days when **everything is online**, how is it possible that real estate left web application behind? There are lots of real estate companies who advertise their property online and manage their clients Remotely so idea behind developing this application is that their properties can also sell and managing Clients everywhere. These applications are not widely popular but in future, they have large scope of growth.

This website is an online real estate management through which individual agents or buyer can maintain their property document keeping and managing property registration and also access its information and manage all the adding, updating, deleting and some of its tasks. The **Admin user** can **inform** their agents for regarding to property and **update** the information regarding property and **cancellation** of property or **changing** buyer choice and, **generate reports** and **assigns** **tasks** for agents and give **policies** to their agents.

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# Overall description:

## Product Prospective:

* **Admin’s interface: Admin** is a person who will **handle** the entire website. For that person has to give the user name and password to enter the admin page. After entering right password admin person can enter the admin home area.
* **User’s interface: User** can visit the **home page** of real estate in which first the introduction of our site mentions first. The registered user can login from the login module. Here guest can register free account to sell. User can **search** the property and it can **select** the **type** of property and its **budget** and also find the **location** of property.

## Product Functions:

* **Our system must save time and money:** Accurate upfront software requirements definition helps ensure your team works on the business problems that matter most.
* **Reduce rework:** Early validation and agreement by stakeholder’s means development and quality teams spend less time on rework.
* **Improve requirement accuracy:** Industry-unique collaborative storyboarding improves accuracy by promoting effective communication.

## Assumptions and Dependencies:

#### Assumptions:

* The **code** should be **free** with compilation **errors**/syntax errors.
* The product must have an **interface** which is **simple** enough to understand.

#### Dependencies:

* All necessary hardware and software are available for implementing and use of the tool.
* The proposed system would be designed, developed and implemented based on the software requirements specifications document.
* End users should have basic knowledge of computer and we also assure that the users will be given software training documentation and reference material (If demanded).
* The system is not required to save generated reports.

# Specific Requirements:

## Software requirements:

* Google Chrome.
* Any Version of browser after Mozilla Firefox 4.0, Internet Explorer 6.0
* Adobe Flash Player 10.0

## Hardware requirements:

* + Any processor after Pentium 4.
  + Any version of (at least) Windows XP or later.

# Functional and Non-Functional Requirements:

## Functional Requirements:

Since this project uses database and control, it needs the retrieval of information from the database. It needs access of **Database (MYSQL)** from a front end GUI, as **PHP** it provides easy linking to the database, along with the **flexibility** required to develop a **user**-**friendly** front end.

## Functional Requirements

* + - * **Usability:** The interface should use terms and concepts, which are drawn from the experience of the people who will make most of the system.
      * **Efficiency:** The system must provide easy and fast access without consuming more cost.
      * **Reliability:** User should never be surprised by the behavior of the system and it’s easy to use to stored data.

# System attributes:

#### Reliability

This system is designed to have very simple database just to cater the exact need of real estate management. It will be tested for all the constraints at development stage.

#### Availability

This system will only **available** till the system on which it is installed is **running**.

#### Security

This system is provided with **authentication** without which no user can pass. So only the **legitimate users are allowed to use the application**. If the legitimate users share the authentication information then the system is open to outsiders.

#### Maintainability

There will be a **maintenance** required for the software if the system is down under any conditions.

#### Portability

The system is portable as it is a standalone application running on single system with shared database.

* 1. **Class Diagram**

**Log In**

+create\_profile()

+update\_profile()

+view\_profile()

+book\_property()

+cancel\_property()

+suscribe()

-type

-area

-city

-description

-seller\_id

**Property**

Buy

-name : String

-contact\_no : Integer

-email\_id : String

**Customer**

+log\_in()

+log\_out()

+verify()

+manage()

-user\_id : String

-password : String

-

+create\_profile()

+update\_profile()

+view\_profile()

+insert\_property()

+describe\_property()

\*

-admin\_id

-name

-

-name : String

-con\_no : Integer

-Email\_id : String

Create and manage

**Admin**

**Seller**

**CHAPTER-3**

**System Design**

* 1. **Use-Case Diagram**
     1. **ADMIN Use-Case**



BENAA REAL ESTATE

Client Registration

Agents Registration

Advertisement/ Banner

ADMIN

Managing Property

Generate reports

Update/Delete Client

* + 1. **USER Use-Case**



REAL ESTATE MANAGEMENT SYSTEM

Search Property

Booking Property

Cancellation Property

USER

Manage/List Search

Post Requirement

Enquiry Property

* 1. **Sequence Diagram**

Verify the Password

Verify Property of Buyer

Update Real System

Verify Information

Admin

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Buyer | | |  | System | | |
|  |  | Log In | | |  |  |
| Secure Property Buy | | |
| Display Buyers Activity | | |
| Select Buyer Activity | | |  |
| Request of Properties | | |
| Conform Property | | |
| Ask for Selling Property | | |
| Enter Builder Info | | |
| Conform Real System | | |
|  | | |

* 1. **Activity Diagram**



BENAA System

No

Log In

Yes

Info. Of Diff. Buyers

Info. Of Diff. BENAA

Check Properties of Buyers

Check Properties of Sellers

Conformation of Buying of Properties

Exit

* 1. **Data Flow Diagram:**

**REGISTRATION**

* **Level 0 (DFD CONTEXT):**

**ACCOUNT DETAIL**

**VERIFICATION DETAIL**



**CONTROL**

BENAA SYSTEM

ADMIN

USER

## Level 1(A):

**End user id,Username,password**

**Detail Sent**

REGISTRED USER

**LOGIN 1.0**

ADMIN

**Logged in Successfully**

**Access Given**

**Clients details Confirmed**

**Login**

**request**

**booking master**

**Search property**

|  |  |  |
| --- | --- | --- |
| **response** |  |  |
| **request**  **Post requirement\_**  **response** | | |

**Asked for selecting property Match property**

**Service provided**

CUSTOMER

**Payment mode**

**Generate offer letter**

PROPERTY PLAN

2.0

**request**

**response request**

**response**

|  |  |  |
| --- | --- | --- |
| **request**  **response**  **request** | **Search property** | |
| **response** | **Post property** | |
|  |  |

**buy**

**Post property**

**Post property\_ buy**

**Managing incoming/outgoing emails**

## Level 1(B):

**request**

Management

**Request sent**

**booking master**

**Payment mode**

**Purchase return**

BENAA

SYSTEM

**response request**

**response request**

**Transaction master**

**Property\_ generated**

|  |  |  |
| --- | --- | --- |
| **response** |  |  |
| **request** | | |

**Customer master**

|  |  |  |
| --- | --- | --- |
| **response** |  |  |

**Report sent**

## Level 2(A):

**Enter user id,username,password Details sent**

**Access given**

**Verified**

**VALIDATE**

**USER Validate user**

**1.1**

**Enter new password**

**Login**

CHANGE

**change password**

1.2

CREATE USER 1.3

**Details sent**

**Enter details**

**Assigned user id,username,password**

**Account generated**

ADMIN

USER

# Level 2(B):

**Customer details**

**Confirmation property**

#### PROPERTY CONFIRMATION 2.1

**request response**

**request response**

**Booking master**

**Asked for selecting property**

**request**

**Post property category**

**response request response**

**CUSTOMER**

**Post requirement category**

**Service provided**

#### SERVICES 2.2

**request response**

**Transaction master**

**Service master**

**Cancel request**

#### CANCELLATION 2.3

**Asked for generate offer letter**

**Print offer letter**

#### PAYMENT MODE 2.4

* 1. **Data modeling**
     1. **Data Dictionary**

Data Dictionaries are an integral component of analysis, since data flow diagram by him or she does not fully describe the subjects of the investigation.

A data dictionary is a catalog of the element in as system. This element centers on data and the way are structured to meet user ‘s requirements and needs. The major elements are dataflow, data stores and processes. Data dictionary stores details and description of these elements.

It is developed during data analysis and assists analysis involved in determining the system. Four main reasons of analysis are:

* + - * To **manage the details** in large system.
      * To **communicate a common meaning for all system** elements.
      * To **document the features** of the system.
      * To **locate the errors and omissions** in the system.

The data dictionary contains two types of descriptions as following:

1. **Data Elements:** The most fundamental data level is the data element. Data element is the building block for all others in the system.
2. **Data Structure:** A data structure is a set of items that are related to one another that describes components in the system.

**Table Name**: Post property sell

**Primary Key**: sell id

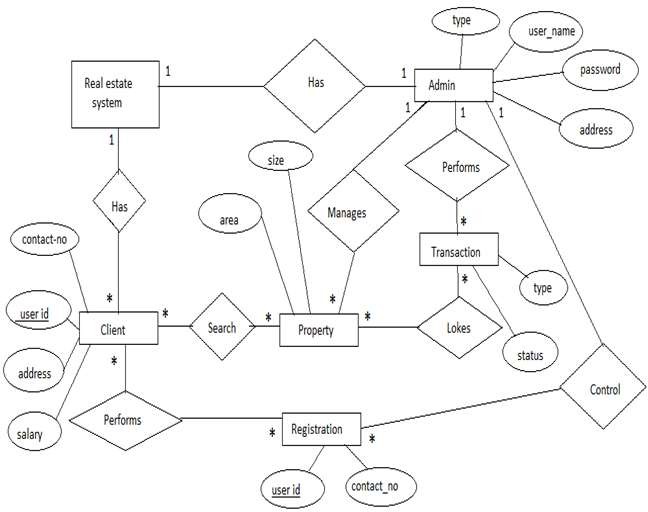
**Description**: To store the details of Buyer or agents.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr No** | **Fields** | **Datatype** | **Description** |
| 1 | Property type | Varchar (50) | property |
| 2 | City | Varchar (50) | User city name |
| 3 | Locality | Varchar (50) | Area of user |
| 4 | Address | Varchar (50) | Detailed address of User |
| 5 | Type of owners | varchar (50) | No. of bedrooms |
| 6 | Plot area | Double (50) | Area of land |

Table 1: **Post property sell**

**And other tables will build after requirements fully finished.**

* + 1. **E-R Diagram:**



**CHAPTER-4 TESTING**

**4.1 TEST CASES:**

* + - * **Unit Testing**: This is the lowest level of testing that is conducted to remove syntax & logic errors from a single unit. Individual components are tested to ensure that they operate correctly. Each component is tested independently, without other system components.
      * **Module testing**: A module is a collection of dependent components such as an object class, an abstract data type or some looser collection of procedures & functions. A module encapsulates related components, so can be tested without other system modules.
      * **Sub-System testing**: This phase involves testing collections of modules, which have been integrated into sub-systems. This tests for problems that arise from component interactions. This testing should begin as soon as usable versions of some of the system components are available.
      * **System testing**: The sub-systems are integrated to make up the system. The system as a complete entity is tested over here. This process is concerned with finding errors that result from unanticipated interactions between sub-systems. It is also concerned with validating that the system meets its functional & non-functional requirements & testing the emergent system properties.
      * **Acceptance testing**: This is the final stage in the testing process before the system is accepted for operational use. The system is tested with data supplied by the system customer rather than simulated test data. Acceptance testing may reveal errors & omissions in the system requirements definition because the real data exercise the system in different ways from the test data. It may also reveal requirements problems where the system’s facilities do not really meet the user’s needs or the system performance is unacceptable.

CHAPTER 5

**CONCLUSION AND DISCUSSION**

## 5.1Problem Encountered and Possible Solutions

#### Hardware Limitations

The only limitation posed is when the disk space is exhausted. And it can be solved by extending the disk space.

#### Internet speed

Internet connection speed should be minimum **2 Mbps.**

## 5.2Summary of Project work

In whole procedure to prepare project, we first gather the requirement of the project and decide the time schedule. After planning we design the documentation of project. After the design we generate the code of system. In design the code we do the error estimation and effort estimation. If error is occurred then solve it. Finally, when code is designed then test the project and decide the cost of project.