INTRODUCTION

This project is about creating the database about Assets Management System.

Assets apartment management has become important factor in modern society hence the need to have a Assets house management system. The Assets Management System is Searching in Based on the Apartment Paying Guest, Office, House in metropolitan cities. The Assets Management System is Based on the Owners and the Customers. The Owner is updated on the Apartment, Office details, House, Paying Guest details. The Customer is details about the Room space, Room rent and the Address Details also. The Assets Management System is best Suitable the owners because time save and the only contact and the eligible person and there is no need to explain the room details on the speak. The Assets Management System is best application in the city place The customer contact and the easily search and the suitable place of Apartment, Office, PG, House and based the Money, Limit Person is based on the suitable house. The Assets Management System is save the time also. The Assets Management System is used to easily identify the suitable place in Save time, cost also. The Assets Management System is best way to search the house, Apartment office, Paying Guest. Hence this system is best applicable for the above reasons making House Assets an easy process through an online system acknowledgement.

1.1 Background:

Asset management refers to the process of developing, operating, maintaining, and selling assets in a cost-effective manner. Most commonly used in finance, the term is used in reference to individuals or firms that manage assets on behalf of individuals or other entities.

Every company needs to keep track of its assets. That way, its stakeholders will know which assets are available to be employed to provide optimal returns. The assets owned by any business fall into two main categories: fixed and current assets. Fixed or non-current assets refer to assets acquired for long-term use, while current assets are those that can be converted into cash within a short amount of time.

1.2 Motivation

This Project is dedicated to:

- Model the existing assets management system
- Provide a Comprehensive set of features to enhance their operational limits
- Evaluate their performance in different Scenarios

Suggest modifications for greater efficiency

1.3 Problem Statement and Objectives

The problem statement entitled "To implement a web application for Assets management system using PhP and MySQL" is defined with the following objectives

- To produce a web-based system that allow customer to register and reserve houses online
 And for the company to effectively manage their House Assets business.
- To ease customer's task whenever they need to rent a house.
- To Transform the manual process of renting house to an online and computerized system
- To validate the house Assets system using user feedback and testimonies
- To produce the documentation such as Software Requirement specification, Software Design Description and Software Development References

1.4 Hardware and Software Requirements

This section describes the software and hardware requirements of the system

Web Server Apache Web Server

DBMS MySQL

Web Programming language HTML, PhP, JavaScript

Database Language SQL

Web Browser Google Chrome, Microsoft Edge

Software Package XAMPP

Hard Disk Space Minimum 1GB with 512 MB of RAM

Operating System Windows, Ubuntu

1.5 Organization of the report

In chapter 1, we have dealt with motivation, problem statement, objectives, software and hardware requirements used in Assets Management System. In chapter 2, discusses the database schema consisting of ER Diagram and the list of database tables used. In chapter 3 and 4, demonstrates the working of the project. In chapter 5, gives the conclusion.

DATABASE DESIGN

This chapter includes details of database conceptual modelling, ER diagrams, and database design concepts.

2.1 Entity-Relationship (ER) diagram

An entity-relationship diagram (ERD) is an abstract and conceptual representation of data. ER modelling is a database modelling method, used to produce a type of conceptual schema or semantic data model of a system, often a relational database, and its requirements in a top-down fashion.

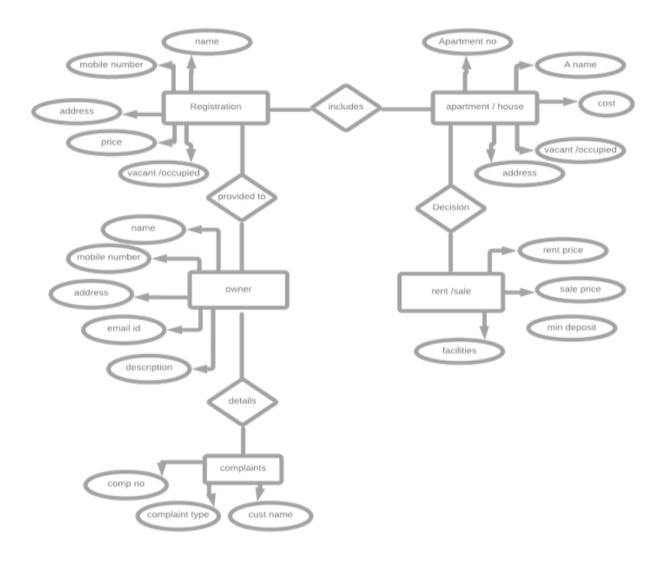


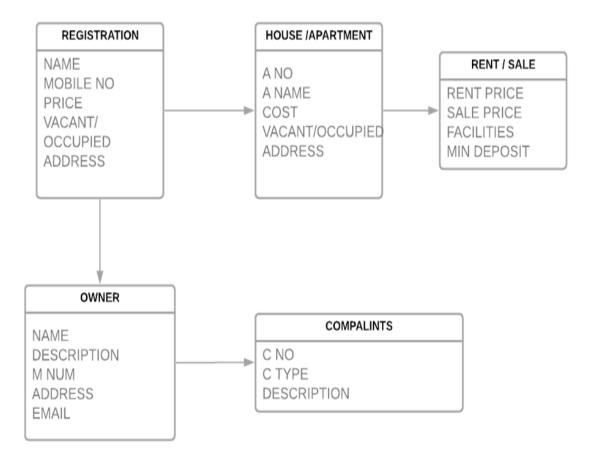
Figure 2.1 ER diagram

2.2 Logical Schema

A database schema is the skeleton structure that represents the logical view of the entire database. It defines how the data is organized and how the relations among them are associated. It formulates all the constraints that are to be applied on the data.

A database schema defines its entities and the relationship among them. It contains a descriptive detail of the database, which can be depicted by means of schema diagrams. It's the database designers who design the schema to help programmers understand the database and make it useful.

Logical Database Schema — This schema defines all the logical constraints that need to be applied on the data stored. It defines tables, views, and integrity constraints.



2.3 Database Tables and Metadata

Table name:	Registration					
Description:	It gives details about registration of customer					
	id					
	name					
Attributes:	mobilenumber					
Attributes.	address					
	price					
	vacant_occupied					
Primary key:	id					

Table 5.2.1: Registration

Table name:	Owner					
Description:	It stores the details of owner of apartment					
	id					
Attributes:	name					
	mobilenumber					
	address					
	email					
	description					
Primary key:	id					

Table 5.2.2: Owner

Table name:	Complaints				
Description:	It stores the details of complaints of customer				
	id				
Attributes:	complaint_type				
	customer_name				
Primary key:	id				

Table 5.2.3: Complaints

Table name:	Apartment				
Description:	It stores the details of apartment				
	Id				
Attributes:	name				
	cost				
	address				
	vacant_occupied				
Primary key:	id				

Table 5.2.4: Apartment

Table name:	Rent_sale		
Description:	It stores the details of rent and sale of apartment		
Attributes:	id rent_price sell_price minimum_deposite facilities		
Primary key:	id		

Table 5.2.7: Rent_sale

2.3 Summary

In the present chapter, the overall database modelling and design concepts are discussed.

IMPLEMENTATION

This chapter includes implementation details of application with tools and techniques.

3.1 Introduction to DBMS

A database is an organized collection of data. A relational database, more restrictively, is a collection of schemas, tables, queries, reports, views, and other elements. Database designers typically organize the data to model aspects of reality in a way that supports processes requiring information, such as (for example) modelling the availability of rooms in hotels in a way that supports finding a hotel with vacancies.

A database-management system (DBMS) is a computer-software application that interacts with end-users, other applications, and the database itself to capture and analyse data. A general-purpose DBMS allows the definition, creation, querying, update, and administration of databases. Well-known DBMSs include MySQL, PostgreSQL, Enterprise DB, MongoDB, MariaDB, Microsoft SQL Server, Oracle, Sybase, SAP HANA, MySQL, SQLite and IBM.

A database is not generally portable across different DBMSs, but different DBMSs can interoperate by using standards such as SQL and ODBC or JDBC to allow a single application to work with more than one DBMS. Sometimes a DBMS is loosely referred to as a "database".

3.1.1 Advantages of a DBMS

Using a DBMS to store and manage data comes with advantages, but also overhead. One of the biggest advantages of using a DBMS is that it lets end users and application programmers' access and use the same data while managing data integrity. Data is better protected and maintained when it can be shared using a DBMS instead of creating new iterations of the same data stored in new files for every new application. The DBMS provides a central store of data that can be accessed by multiple users in a controlled manner.

Central storage and management of data within the DBMS provides:

- Data abstraction and independence
- Data security
- A locking mechanism for concurrent access
- An efficient handler to balance the needs of multiple applications using the same data

- The ability to swiftly recover from crashes and errors, including restorability
- Robust data integrity capabilities
- Logging and auditing of activity
- Simple access using a standard application programming interface (API)
- Uniform administration procedures for data.

Another advantage of a DBMS is that it can be used to impose a logical, structured organization on the data. A DBMS delivers economy of scale for processing large amounts of data because it is optimized for such operations. DBMS can also provide many views of a single database schema. A view defines what data the user sees and how that user sees the data. The DBMS provides a level of abstraction between the conceptual schema that defines the logical structure of the database and the physical schema that describes the files, indexes and other physical mechanisms used by the database. When a DBMS is used, systems can be modified much more easily when business requirements change. New categories of data can be added to the database without disrupting the existing system and applications can be insulated from how data is structured and stored. Of course, a DBMS must perform additional work to provide these advantages, thereby bringing with it the overhead. A DBMS will use more memory and CPU than a simple file storage system.

3.2 Introduction to SQL

Structure Query Language (SQL) is a programming language to request data from a database, to add, update, or remove data within a database, or to manipulate the metadata of the database. SQL was the first commercial language introduced for E.F Codd's Relational model. Today almost all RDBMS (MySQL, Oracle, Informix, Sybase, MS Access) uses SQL as the standard database language. SQL is used to perform all type of data operations in RDBMS.

Commonly used statements are grouped into the following categories:

Data Query Language (DQL)

• SELECT - Used to retrieve certain records from one or more tables.

Data Manipulation Language (DML)

- INSERT Used to create a record.
- UPDATE Used to change certain records.
- DELETE Used to delete certain records.

Data Definition Language (DDL)

- CREATE Used to create a new table, a view of a table, or other object in database.
- ALTER Used to modify an existing database object, such as a table.
- DROP Used to delete an entire table, a view of a table or other object in the database.

Data Control Language (DCL)

- GRANT Used to give a privilege to someone.
- REVOKE Used to take back privileges granted to someone.

3.3 Introduction to MYSQL

MySQL is a leading open-source database management system. It is a multi-user, multithreaded database management system. MySQL is especially popular on the web. It is one of the parts of the very popular LAMP platform. Linux, Apache, MySQL and PHP. MySQL database is available on most important OS platforms. It runs on BSD Uix, Linux, Windows or Mac. Wikipedia, YouTube, Facebook use MySQL. These sites manage millions of queries each day. MySQL comes in two versions: MySQL server system and MySQL embedded system. The MySQL server software and the client libraries are dual licensed: GPLversion 2 and proprietary license. The development of MySQL began in 1994 by a Swedish company MySQL AB. Sun Microsystems acquired MySQL ABin 2008. Sun was bought by Oracle in 2010. MySQL, PostgreSQL, Firebird, SQLite, Derby, and HSQLDB are the most well-known open-source database systems. MySQL is developed in C/C++. Except for C/C++, APIs exist for PHP, Python, Java, C#, Eiffel, Ruby.

3.4 PhpMyAdmin

phpMyAdmin is a web-based interface to a MySQL server. The interface is written in the PHP language, which is frequently used for web-based interactive programs. phpMyAdmin translates what you enter into the web browser, sends queries to the MySQL data based, and translates the returned information back to web format. As we will see, there are other ways to access the MySQL database, including directly from Mathematics.

3.5 Triggers

A trigger is a named database object that is associated with a table, and that activates when a particular event occurs for the table. Some uses for triggers are to perform checks of values to be inserted into a table or to perform calculations on values involved in an update. A trigger is defined to activate when a statement inserts, updates, or deletes rows in the associated table. These row operations are trigger events. For example, rows can be inserted by INSERT or LOAD DATA statements, and an insert trigger activates for each inserted row.

3.6 Stored procedure

A procedure (often called a stored procedure) is a subroutine like a subprogram in a regular computing language, stored in database. A procedure has a name, a parameter list, and SQL statement(s). All most all relational database system supports stored procedure, MySQL 5 introduce stored procedure. In the following sections we have discussed MySQL procedure in details and used MySQL 5.6 under Windows 7. MySQL 5.6 supports "routines" and there are two kinds of routines stored procedures which you call, or functions whose return values you use in other SQL statements the same way that you use pre-installed MySQL functions like pi().

Stored procedure and trigger used in the above application

CREATE DEFINER=`root`@`localhost`
PROCEDURE `GetUsers` (IN `aid` INT)
SELECT * FROM users WHERE id=aid\$\$

CREATE TRIGGER `insertiLogs`

AFTER INSERT ON 'users'

FOR EACH ROW INSERT INTO logs VALUES(null, NEW.Fullname, NEW.mobile, NOW())

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TESTING

Introduction to Testing

Software testing is an investigation conducted to provide stakeholders with information about the quality of the software product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include the process of executing a program or application with the intent of finding software bugs (errors or other defects), and verifying that the software product is fit for use.

Stages in the Implementation of Testing

>Unit Testing

During this first round of testing, the program is submitted to assessments that focus on specific Units or components of the software to determine whether each one is fully functional. The main aim of this endeavour is to determine whether the application functions as designed. In this phase, a unit can refer to a function, individual program or even a procedure, and a White-box Testing method is usually used to get the job done. One of the biggest benefits of this testing phase is that it can be run every time a piece of code is changed, allowing issues to be resolved as quickly as possible. It's quite common for software developers to perform unit tests before delivering software to testers for formal testing

> Integration Testing

Integration testing allows individuals the opportunity to combine all of the units within a program and test them as a group. This testing level is designed to find interface defects between the modules/functions. This is particularly beneficial because it determines how efficiently the units are running together. Keep in mind that no matter how efficiently each unit is running, if they aren't properly integrated, it will affect the functionality of the software program. In order to run these types of tests, individuals can make use of various testing methods, but the specific method that will be used to get the job done will depend greatly on the way in which the units are defined.

> System Testing

System testing is the first level in which the complete application is tested as a whole. The goal at this level is to evaluate whether the system has complied with all of the outlined requirements and to see that it meets Quality Standards. System testing is undertaken by independent testers who haven't played a role in developing the program. This testing is performed in an environment that closely mirrors production. System Testing is very important because it verifies that the application meets the technical, functional, and business requirements that were set by the customer.

> Acceptance Testing

The final level, Acceptance testing (or User Acceptance Testing), is conducted to determine whether the system is read for release. During the Software development life cycle, requirements changes can sometimes be misinterpreted in a fashion that does not meet the intended needs of the users. During this final phase, the user will test the system to find out whether the application meets their business" needs. Once this process has been completed and the software has passed, the program will then be delivered to production.

Results

Several errors were detected and rectified and the whole project is working as it should with proper output and high efficiency. The several tests performed are as follows:

Test	Test	Input	Steps to	Expected Result	Actual Result	Pass/Fail
case	case	data	execute			
id			the test			
			case			
1	Login	Wrong	After	A proper message	A message	Pass
	screen	username	entering	indicating the	was displayed	
		or	the data	error should	saying incorrect	
		password.	click the	appear and the	username or	
			login	user should be	password.	
			button.	redirected to login		
				screen.		

2	Insertion	If field not	After	A proper message	A message pointing	Pass
		entered	entering	indicating the	to the respected	
			the data,	error should	field showing that	
			click the	appear and the	this field is required.	
			insert	user should be		
			button	redirected		
3	Deletion	-	After	Particular row is	Row is deleted.	Pass
			clicking	deleted.		
			the			
			delete			
			button.			
4	Edit	If field not	After	A proper message	A message pointing	Pass
		entered	clicking	indicating the	to the respected	
			the edit	error should	field showing that	
			button.	appear and the	this field is required.	
				user should be		
				redirected		
				to update screen.		

CHAPTER 4:

SNAPSHOTS



Figure 4.1: On clicking front screen directed to login screen.





Figure 4.2: clicking on search, The customer can search a house.

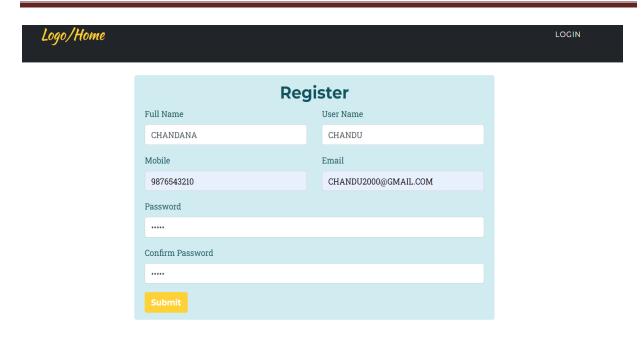


Figure 4.3: If you want to sell your property you should have a user id if not you can resister hear.

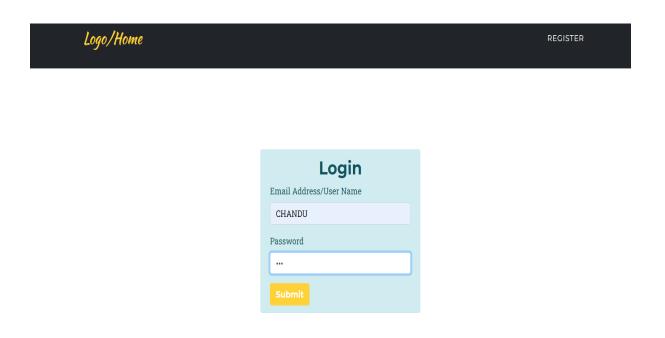


Figure 4.4: After the registration, you can login through id & password.

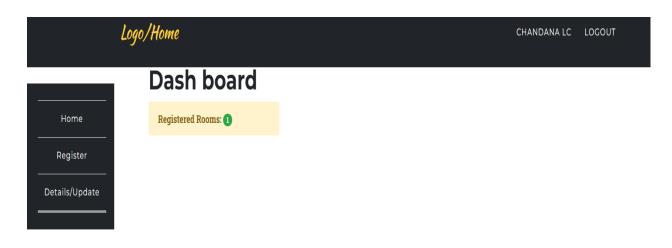


Figure 4.5: It will show your profile & how many properties are for sale.

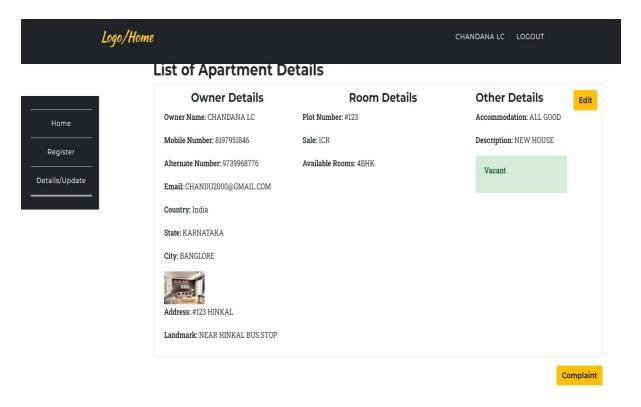


Figure 4.6: By clicking on registered rooms you will interface with this page, This page shows about the property details that you have kept for sale.

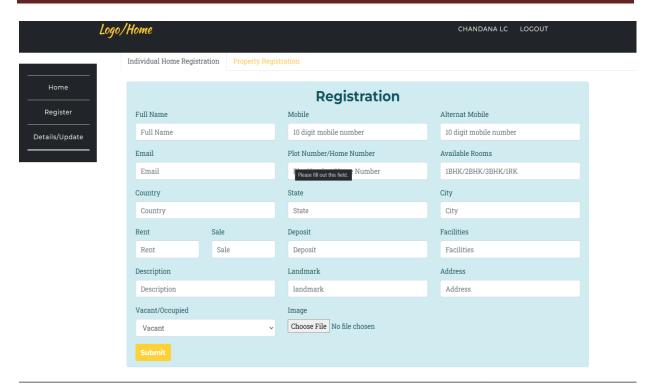


Figure 4.7: By clicking on register This page will occur, where you can registration a new property for sale.

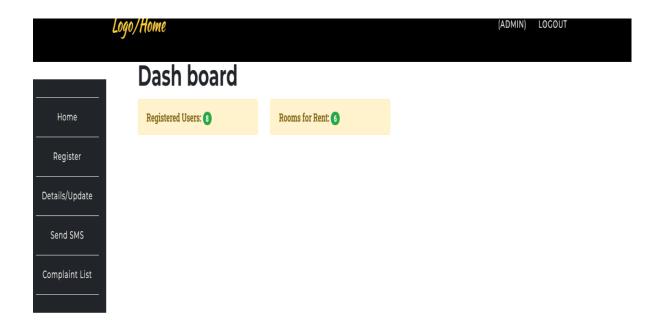


Figure 4.8: This page is for admin only admin can access this, hear you can see the users details and how many rooms are for rent.

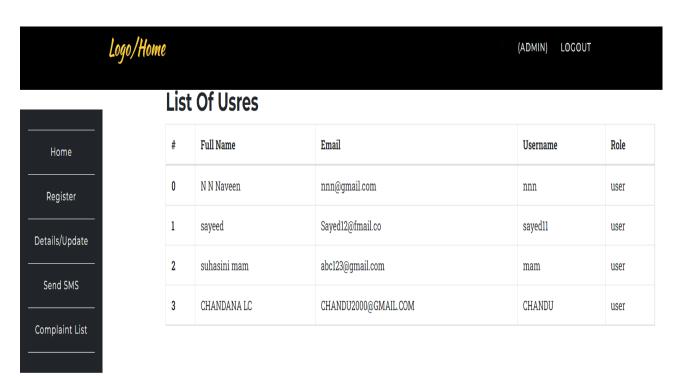


Figure 4.9: hear you can see the list of user's details.

CONCLUSION

Benefits from asset management strategy appliance are obvious. Also having a good asset management system is one of the most important aspects. In this paper we tried to make an overview of desired features and technical preconditions. Also, we tried to value our desirability of such functions and value some of the existing software packages against our methodology. General conclusion is that some of the systems managed to gain high scores in some of the sections excelling in some of the features but failed in the rest of the metrics. Having in mind the need of such systems gives us a motivation for its development.

BIBLIOGRAPHY

Books:

- [1] Fundamental of DATABASE SYSTEMS Ramez Elmasri, Shamkanth B Navathe,7th Edition, Pearson Education,2017.
- [2] The Complete Reference JAVA Herbert Schildt, 7th Edition, Mc Graw Hill Education.
- [3] Database management systems, Ramakrishnan, and Gehrke, 3rd Edition, 2014, McGraw Hill.
- [4] Randy Connolly, Ricardo Hoar, "Fundamentals of Web Development", 1st Edition, Pearson Education India.
- [5] Robin Nixon, "Learning PHP, MySQL & JavaScript with jQuery, CSS and HTML5", 4th Edition, O'Reilly Publications, 2015.
- [6] Luke Welling, Laura Thomson, "PHP and MySQL Web Development", 5th Edition, Pearson Education, 2016.
- [7] David Sawyer McFarland, "JavaScript & jQuery: The Missing Manual", 1stEdition, O'Reilly/Shroff Publishers & Distributors Pvt Ltd, 2014.

Websites & links:

- http://www.wikipedia.org
- http://www.projectsclub.com
- http://www.google.com
- http://www.stackoverflow.com
- http://www.tutorialpoint.com
- http://localhost/phpmyadmin/