**PROPERTY MANAGEMENT SYSTEM USING FINGERPRINT AUTHENTICATION**

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* **The Need**

**1.1 Introduction**

*“We have chosen this project to provide ease to customers by dealing with authentic properties. Generally, when we want to buy/sell property some of us go to real estate professionals. These real estate professional collect all the details which we are interested in. These details are collected manually and may lead to some problems like misplacing, incomplete documents etc. In order to avoid these problems, property management system has been developed which can be used by real estate professionals to save time. By using this system we can collect all the details of client and property.”*

Property Management is one of the use cases that involve a lot of intermediaries to put trust in the system. The existing solutions in place are out of date. Tracking who owns which pieces of property is challenging when you have thousands of land records to maintain.

Property Management System is developed for the ease of customers. It is very strong and easy to use that makes quick booking and account handling process. The Property management system is a web-based software and you can access it from anywhere. This ensures the service to client 24X7. Clients can view and book their favourite property online just after few clicks.

* **Motivation**

This is an era of computer and information technology. In this era, if you want to exist in the market, you have to use computer and information to provide best services to the customer.

Usually, people still prefer paperwork and one of the reason is the preference of paperwork and not use to working on system when think about working using a system. Therefore, less complicated interface and process in online property management system give advantages to those who considering on implementing system work into their business. And for this reason, it encourages online property management system to a higher demand level in online business nowadays.

* **Problem Statement**

It is quite common to confront discrepancies within the paperwork such as counterfeit titles, forged documents and a complete loss of the record. Such situations lead to expensive court battles between conflicted parties.

* **Objective**

The objective is to design a system that will keep information about

* To reduce fraud cases.
* To provide powerful logical user management for security.
* To maintain client details contact details, property details, price limit.
* To maintain property details like registration of property for sale includes property address, property description, price, facilities available.
* **Advantages and drawbacks**
* **Advantages:-**

**Accelerating the Process**  
Middlemen involved in the land registry process hold information that you cannot access, or you might not have the license required to operate in a property transaction**.**

**Reducing Fraud Cases**  
In today’s digital world, it is now possible for people to forge the documents and fake the title ownership with the editing software. Management system land registry platform will allow you to upload the title documentation to the website network where signers can sign the document and other users can verify it when needed.

* **Drawback:-**

**The increasing number of fraud cases**

there have been several cases of people posing as the seller of a property. If a person successfully pretends as a property owner, they may receive the full amount of after completion and escape with the funds.

**Time Delays**  
Land Registry takes a considerably long time to complete title registrations. There could be a gap of several months between completion and registration. Many legal problems can also arise during this long gap.

**Human error/intervention**

currently, updates to the property records are made manually and the accuracy of those changes depends on a particular individual. It means that the manual property management is more vulnerable to human errors.

**2.0 Picture (Framework):-**



When deal between seller and buyer is done then they both come for the signature in the given time by the land registrar and give their fingerprint for record





* **Survey**

**3.1 Journal Papers**

<https://www.researchgate.net/publication/305116511_The_Property_Management_System_The_View_from_the_Front_Desk_on_Training_and_Performance>

* **Conference Paper**

<https://ieeexplore.ieee.org/document/5485699>

* **Book References**

**The Property Management Tool Kit by Mike Beirne**

**Property Management by Robert C. Kyle**

* **Web References**

<http://www.loventis.com/PropertyManagementSystem>

**4.0SE Model to be followed**

**SE Model**

**AGILE SOFTWARE MODEL**



We are using the scrum model for our project, scrum refers to a framework that makes for effective collaborations among teams that are working on complex products. Although it is most often used by software development teams, scrum can essentially be beneficial to any team that is working toward a common goal.

**5.0 Work flow structure:-**

**6.0 Deliverable**

**PROJECT SCHEDULE**

**KEY MILESTONES:-**

Table 1: Key Milestones of the Project:-

|  |  |  |  |
| --- | --- | --- | --- |
| S. No | Elapsed time since start of the project | Milestone | Deliverable |
| 1 | 1st month | Requirement gathering and analysis | Software Requirement Document |
| 2 | 2nd month 10 days | Design web and desktop application | Non-functional design of project |
| 3 | 5th months 24 days | Database | Web app |
| 4 | 7th months 13 days | Fingerprint with database | Desktop App |

**6.1Hardware**

* I3 based processor
* 4GB RAM
* 80 GB Hard disk
* Fingerprint sensor

**6.2 Software**

* Windows 10
* Visual studio c#
* visual studio code
* sql management system
* mysqladmin for web application

**9.0 Work Breakdown Structure**



**8.0 Conclusion**

Finally in Online property management system, we have developed a secure, user-friendly Property Management System. This system is capable of taking care of each work needs to be done through paperwork. The client can login using user's information.

This means the unauthorized user cannot enter into the system making it secure. Searching property help to find their desire property fast. It will be easier for users to search any kind of property they like at home rather than to visit offices again and again. It will save a lot of time as paperwork usually takes a lot of gap sometimes due to documents issues but this system deals with authentic documents and provide verified documents. This system would definitely go to reduce labour and make business more profitable and promising to clients.

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