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**GEOGRAPHIC PROPERTY SEARCH INFORMATION SYSTEM**

**Introduction**

I have discovered that the act of searching for a convenient property in an area that one has never been to or rather not familiar with, is very tiresome and costly. One has to spend money on traveling from point to point, spend money on middlemen who act as house brokers so that they can aid in the property hunt, have to pay prior visits to the area they are deciding to move in to, ask for assistance from friends who know friends living in the area and using many other complicated ways to get information about properties.

A good examples is when university students have to report to there new universities and as a result they have to look for properties to rent. Some end up using about a week out of class in search for a cheap and convenient house to rent in the process getting extorted, lost and tired due to lack of information that could have made it easier.

**Problem**

The lack of a system that can provide adequate information on locations of properties, status of the properties (whether they are vacant or occupied),prices of the properties, social amenities and facilities around the properties has contributed to a lot of trouble when it comes to property search. For example a client/tenant might want to reside in a property that is close to facilities such as (Hospitals,Churches, Roads, Mosques and even schools) they tend to get a hard time during selecting a convenient location to settle without the proper information.

Other than the financial cost that clients go through, they might also get harmed or extorted by people claiming to be the owners of the properties. There have been a few cases of kidnappings, muggings and even assaults undertaken on innocent clients who were purely focused on searching for a property to rent.

**Project description.**

As a result of this challenge that I have personally faced in the past, I have decided to come up with a web based system that will be able to do away with the downfalls of traditional property search. A system that will help users be able to get adequate information on properties and be able to make better decisions at the comfort of their mobile devices.

The system am proposing is a Geographic Property Search Information System. A geographic information system (GIS) is a system that creates ,manages, analyzes and maps all types of data on a map. For this case I will be focusing on mapping ,managing and analyzing property data over a given geographical area. This GIS will help users make decisions in terms of locations and amenities around such as hospitals supermarkets schools roads and markets.

As well properties will be mapped on the map using accurate GPS coordinates and will have more information when clicked (whether vacant or occupied , the type of the residence, services offered by the land lord and many other pieces of information such as contact details).

**Goals and Objectives**

* Make property search and management digital and easy.
* Reduce the cost and cumbersomeness of property searching activities .
* Getting rid of brokers who extort clients.
* Building a direct client owner relationship.
* Making it easy for clients to make decisions on convenience of desired properties.

**Benefits Anticipated/Outcome.**

By providing information at this grade and an easy way of accessing it, I believe many clients will be able to cut the cost of property search by 90% .Clients will be able to communicate directly with the management of the desired properties through the platform. Clients will need not to visit the area prior. Clients will avoid extortion by greedy brokers and even extreme cases such as kidnap.Clients will be able to make better decisions in selecting their property of choice.

**Methodology/Time line.**

I will make use of the waterfall model of software development where i’ll first gather the requirements for the web based GIS ,Design the web based GIS software, implement it by codding, test the software, Deploy the software to a cloud platform for hosting and lastly Maintain the software. I will do this repeatedly with review until a final fine version of the software is out.

**Support/Tools.**

I will make use of the Google maps api and for exclusive performance i will have to pay for the pro api keys and also a hosting fee for the deployment will be applicable.