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Searching Nearby Sites Using Google Maps

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Abstract: ***Nowadays, with the emergence of many real estate search engines we can provide a better matching between the consumer and seller. In the proposed system, we are going to develop a responsive web application which is compatible in all screens. In this application the users can filter and search the nearby site information. For simplified user-friendly process, this system allows the users to search nearby sites using text as well as fuzzy matching. Complete details of relevant properties and real estate company are shown on the Google Map as well. There is also a navigation map which shows the best route to the selected site. If the preferred properties are not available in the nearby surroundings, other similar properties will be recommended to the users. In this system user's location is tracked using GPS and then details of all the nearby properties are displayed.***

Keywords: web application, Google Map, GPS, properties.

I. INTRODUCTION

The proposed system is developed to overcome the problems present in the current system. This project reduces the hardships faced in the existing system. This system is user-friendly and the users can carry out necessary operations in a smooth and effective manner. The application tries to reduce the errors while entering the data. An error message is shown if the invalid data is entered. No prior knowledge is required to use this system. The project ensures that the organization is equipped with right level of information and details. For those executives who are always busy, our system provides remote access feature which allows them to manage their workforce anytime.

II. PROBLEM DEFINITION

Usually a customer will search for a property based on its category and consults the related real estate agents to purchse a land. However, if the consumer is in a hurry and not familiar with the real estate nearby they may be cheated. Manual visit to the sites has been done in the existing system. The customer/user needs to visit the places on his own to get the information related to a particular site. The manual visit to the site will not help the user gain much knowledge about the properties and pricing details of a particular site.

III. LITERATURE SURVEY

In this project an android application for tracking or monitoring the user is developed that uses GPS to track their current location and previous location. Unlike previously existing tracking systems, if the user can't remember the previous location, this system permits the users to create bookmarks of the current location and track back to that location using Google Map API's, it is also useful in determining the future location using datamining [1].

This project is on Location Based Emergency Medical Services where the LBS is a technology that uses GPS to track the current location to provide various information and services. It enables people to share their location with friends and business associates. Using this mobile application, the user can find nearby hospitals, police station numbers, ambulance numbers, medical stores, and other medical services. This application provides both online and offline data, allowing the user to search for emergency services even when he or she is not connected to the internet [2].

Nowadays a wide range of applications uses GPS technology. This application tracks your vehicle and monitors it on a regular basis. This tracking system will inform the user about the current location of the vehicle and the route in which it has travelled. This data can be monitored from anywhere. This web application also shows the exact location of the vehicle to the user. In any weather condition, this system can track the target's location. Both GPS and GSM technologies have been used in this system [3].

The effectiveness of the proposed system was demonstrated by acquiring several surveillance videos that are unprocessed and our algorithms were tested on them in the absence of their corresponding field conditions. This experiment shows that promising results can be obtained from the visualisation technique and is effective in conveying necessary information while removing the necessity to search through a massive amount of video data exhaustively [4].

In this paper, a framework for Google Maps-assisted UAV navigation in a GPS denied environment is proposed. Geo-referenced navigation allows for drift free localization and eliminates the need for loop closures. Correlation is used to initialize the UAV position, which is a simple and efficient method. Then, in subsequent frames, we use optical flow to predict its position. We obtain inter-frame translation during pose tracking using HOG features and either motion field or homograph decomposition are used for registration on Google Map. To locate the UAV and conduct a fine search we use a particle filter. Aerial images are used for offline testing which yields accurate results because this approach removes drift in dead reckoning and small localization error, hence our approach serves as a better supplement to GPS [5].

In this project Geospatial applications are used which provides detailed information about the attributes of spatial objects that are in real world. As there are rapid advancements in web-based GIS applications, applications range from geotagging to geolocation capabilities. In this application we combine Google Maps with Google Earth API to obtain a web based three dimensional applications. By storing the data in XML databases, we can obtain a detailed information about the required location that is in 3D view. And this gives the user the original view of the world, more realistic experience and the information that the user needs. Here user can get the information about any road, streets, cities name along with 3D buildings. Here we can view, analyse, and create maps with respective geographic data, thus this application will increase the effectiveness of GIS, enhance the productivity, information shared for users, general public and overall user experience [6].

Table 1: Summary of literature survey

Serial number	Title	Year	Author	Advantages	Disadvantages
1	Implementation of GPS Based Object Location and Route Tracking on Android Device	November 2015	Mr Joshua Samual.	It is user friendly and produces accurate predictions. Locations can be bookmarked and these locations can also be traced.	It is power consuming and multimedia features such as videos, images and audio are not available.
2	Location Based Emergency Medical Services Using Android Mobile OS	April 2018	Deveshree A., Ankit Kadam., Aishwarya Jagtap.	This is a better application to search the emergency services, as it provides both static and dynamic data for the user.	Lack of custom navigation.
3	Design and Development Of GPS-GSM Based Tracking System with Google Map Based Monitoring	June 2013	Pankaj Verma., J.S Bhatia.	The system is about making vehicle more secure by the use of GPS, GSM technology and a web application.	There is no mobile based application to get the real time view of the vehicle instead to check it on PC
4	Glyph-based video visualization on Google Map for surveillance in smart cities	2017	Fozia Mehboob., Muhammad Abbas., Saad Rehman., Shoab A Khan., Richard Jiang., Ahmed Bouridane.	A visual activity analysis is performed based on motion tracking for monitoring live traffic on highways.	It cannot be used for city-level traffic management system
5	Google Map Aided Visual Navigation for UAVs in GPS-denied Environment	29 March 2017	Mo Shan., Fei Wang., Feng Lin., Zhi Gao., Ya Z. Tang., Ben M. Chen.	This system presents the first study of localization using HOG features in GPS-denied environment by registering aerial images and Google Map.	More evaluation cannot be performed on challenging environments, including day and night conditions.
6	Integration of a city GIS data with Google Map API and Google Earth API for a web-based 3D Geospatial Application	November 2013	Akanbi A. K., Agunbiade O.Y.	The detailed information about a location on the 3D map is displayed which gives users a more realistic experience and information for user needs.	There is no mobile based application.

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IV. PROPOSED SYSTEM

In the proposed system we are developing a web-based application that uses Google API, which helps the user to search nearby sites, through which user can get the information of a particular site, like property details, location and pricing details without the intervention of other people. This web-based application allows the user to view details of all the nearby sites on the map. It also allows the user to list the properties by adding details and location information. This system suggests user interest-based Site or properties to other users by using Collaborative filter which is an added advantage to the proposed system.

V. METHODOLOGY

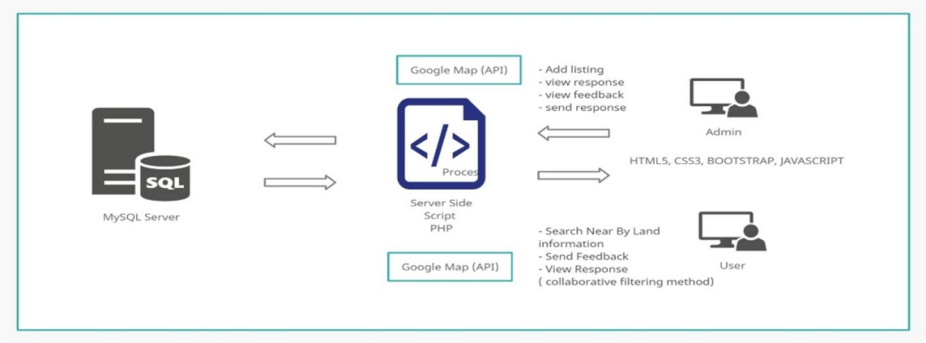

Fig1:Methodology

The front end of the application is developed using the HTML, JavaScript, CSS and the Bootstrap technology. This application helps in making the system more effective and convenient to the user. So that every end user can easily understand the working of the application. In this project there are two main modules who plays the major role, they are user and admin. Admin can manage the website, receive customer feedback and send responses. User can view and search nearby site information which shows available location's pin number. Information also includes site number, dimension and pricing details. User can also search sites by using chat-bot. In the middle layer of our project, the modules can interact with the database. PHP is used to interact between the user and the database. In the database, the data is stored effectively which helps the server to easily fetch and display the data from the database. MySQL is used to store the data in database. The effective analysis is done to create the database design and to store the data.

VI. CONCLUSION & FUTURE SCOPE

This paper has demonstrated a web application that will be developed using Google Maps API, MySQL Server, JSON and PHP. These tools are highly reliable and open source. This project helps the user to list their properties on the website and they can even delete the listed properties from the website. User can also review the information of any other property on website. Using chat-bot the user can even interact with the application. Also, the user can view the details of all the nearby sites on the map. User interest-based Site or properties are suggested to other users by using Collaborative filtering method.

A mobile based application with similar functionalities can be developed so that all kind of users can make use of it.

Duration and distance between the location of the user and the site can also be shown on the map.

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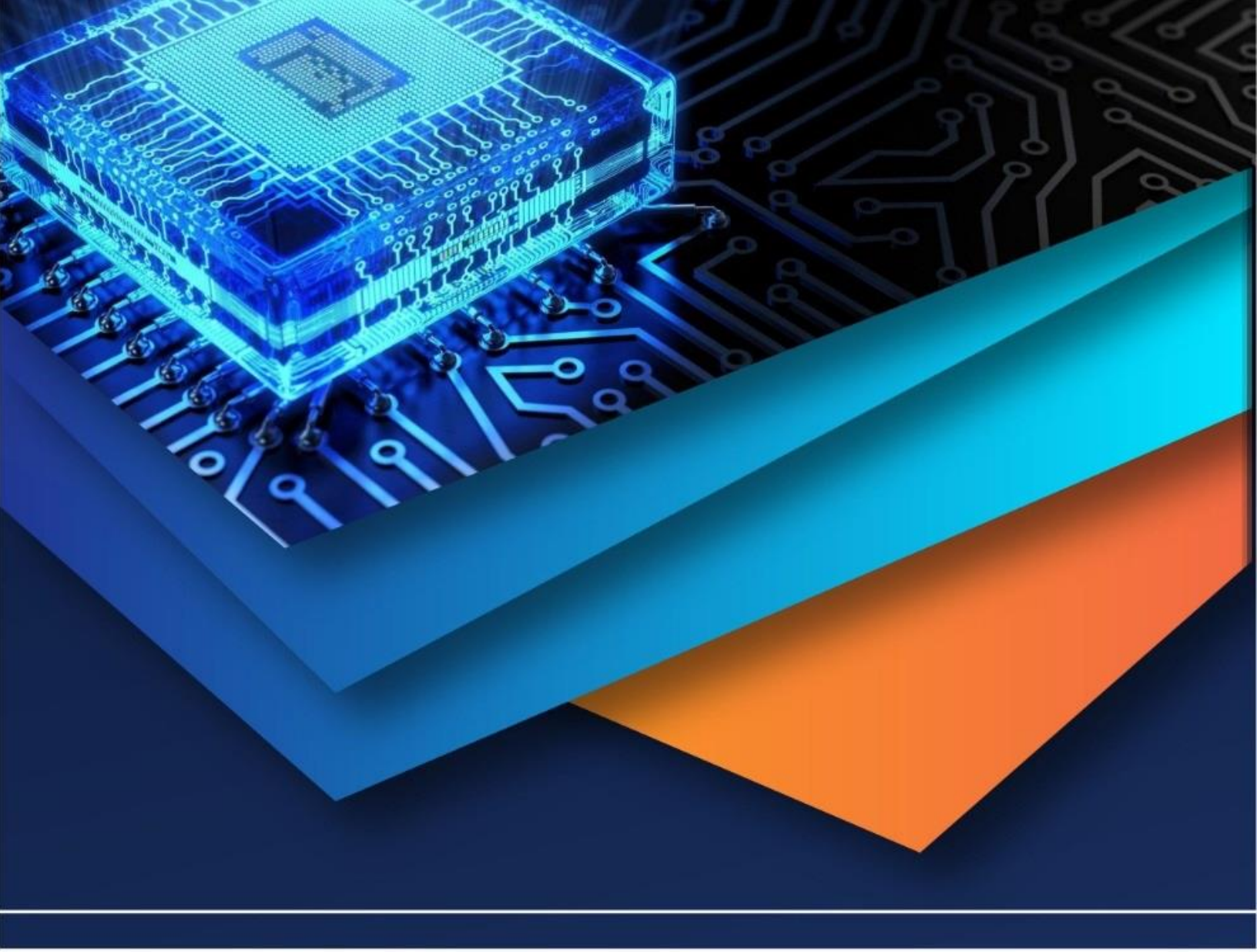

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