Location Based Directory System

Anmol Bhavar, Tejashri Duraphe, Reshma Pokharkar, Prof. Amrut Kanade

Abstract— Todays location-sensitive service relies on user's side to determine the current location. This allows malicious users to access a restricted resource or provide bogus alibis by cheating on their locations. To address this issue, in this system, we propose A Location Based Directory System (ALBDS) in which GPS enabled mobile devices mutually generate location proofs and send updates to a location proof server. By using IR square algorithm we find out exact location of different places with exact way. Our system also provide all the details of that particular location which are find out by our system. Periodically changed are done by admin to provide exact details of that location for the user who use this system. We also develop factor wise distribution of different different places for example Hotels, Shopping malls, Hospitals, ATM's, Banks, Food Cafe etc. We also present ranking-based betweenness and correlation clustering-based approaches for displaying list of places. ALBDS required large scale database to maintain all the

Keyword: IR Square, Location Based Service , Location Proof

I.INTRODUCTION

Area data is essential in many processing applications. The developing merging and reconciliation of computerized correspondence innovation in light of versatile systems, driven by the achievement of Web innovation, are presently centered around offer administrations that are connected by the area of people. Such administrations are for the most part alluded to as Area Based Administrations (LBSs) and can be characterized as administrations that coordinate a cell phone's area or position with other data in order to give increased the value of a client. An Area Based Administration (LBS) is a data and excitement benefit, open with cell phones through the portable system and using the capacity to make utilization of topographical position of the cell phone. A LBS administrations can be utilized as a part of an assortment of settings, for example, wellbeing, work, individual life, and so on. LBS incorporate administrations to recognize the area of a man or protest, for example, finding the closest managing an account money machine or the where about of a companion or worker. LBS administrations incorporate package following and vehicle following administrations or kids following administrations and so on.

II. LITERATURE SURVEY

[1]: Amazon.com Recommendations Item-to-Item Collaborative Filtering Brent Smith [2003] They propose

recommendation algorithms provide an effective form of targeted marketing by creating a personalized shopping experience for each customer. For

large retailers like Amazon.com, a good recommendation algorithm is scalable over very large customer bases and product catalogs, requires only

subsecond processing time to generate online recommendations, is able to react immediately to changes in a user's data, and makes compelling recommendations for all users regardless of the number of purchases and ratings.

[2]: Aggregate Nearest Neighbor Queries in Spatial Databases

D. Papadias [2005] They propose the novel problem of aggregate nearest neighbor retrieval, a generalized form of NN search, where there are multiple query points and the optimization goal depends on an input function. ANN is important both as a standalone query type in spatial applications (e.g., GIS, VLSI),

as well as a module for efficient clustering-related methods.

[3]:Collaborative Location and Activity Recommendations with GPS History Data

Yu Zheng [2010] They get how to mine knowledge from the real-world GPS data to answer two common questions in our daily life. The first question is, if we want to do something, where shall we go? This question corresponds to location recommendation. The second question is, if we visit some place, what can we do? This question corresponds to activity recommendation.

[4]:LARS: A Location-Aware Recommender System

Ahmed Eldawy[2012] They proposed location-aware recommender system ,tackles a problem untouched by traditional recommender systems by dealing with three types of location-based ratings: spatial ratings for non-spatial items, non-spatial ratings for spatial items, and spatial ratings for spatial items.

[5]:An anonymous communication technique using dummies for location based services

H. Kido[2015] They proposed an unknown correspondence strategy utilizing fakers for area based administrations implies a technique for creating a fake area verification and blending them with genuine area evidence, so it gets to be distinctly confounded for area based specialist organizations to separate

them, in anticipated a system for every now and again changing client's character by the utilization of pen names. Pen names utilized for concealing the first personality.

III .OBJECTIVES

- 1. To build up a minimal effort and powerful Location based catalog demonstrate called as ALBDS.
- 2. Area must be find adequately and looked after safely.
- 3. Intermittently changed are finished by administrator to give correct points of interest of that area for the client who utilize this framework.
- 4. Client get required place with correct way.
- 5. New Business open doors gave: It is incredible stage for business. It gives new business chances to client and Allow for significant benefit, with its wellbeing and unwavering quality of that item. Clients can appreciate a protected and happy with shopping.
- 6. Client can spare time and cash: New offers are advantageous for sparing cash. It Improves relations between the clients and society through business exchanges.
- 7. Area following by GPS: It consequently catches client Location, delineate and shows remove between fancied place of client and client current area.

III. PROPOSED SYSTEM

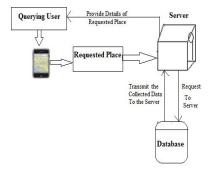


Figure 1. Architecture Of System

We propose A Location Based Directory System (ALBDS), which does not depend on the wide sending of system foundation or the costly confided in figuring module. In this framework, GPS empowered cell phones or android telephones in range commonly create area proofs, which are transferred to an untrusted area verification server that can confirm the trust level of every area confirmation. An approved verifier can question and recover area proofs from the server.

In addition, our area verification framework ensures client area protection from each gathering. By utilizing IR square calculation we discover correct area of better places with correct way. We additionally create calculate astute dispersion of various better places for instance Hotels, shopping centers, Hospitals, ATM's, Banks, Food Cafe and so forth. We additionally introduce betweenness positioning

based and relationship bunching based methodologies for showing rundown of spots.

All the more particularly, we utilize measurably refreshed pen names every cell phone to shield area security from each other, and from the untrusted area confirmation server. So as to shield against plotting assaults, we likewise show between positioning based and relationship grouping based methodologies for anomaly identification.

Location Tracking - This segment stores the area hint of individual clients. This speaks to a crucial segment in cutting edge LBS as it contains the information that permits a client's course to be resolved and conceivably anticipated. Specifically, this segment would regularly bolster the accompanying usefulness:

- 1. Keep records on client's present and past areas.
- 2. Advise different segments when a particular client has moved, or when they move in or out of a zone. This backings area based notices being sent to clients.
- 3. Figure out which clients are inside a characterized area this backings geo throwing highlights.
- 4. Inquiries of area follow to produce client development models.

IV. ALGORITHM

Our location based system uses a IR-Square algorithm for ranking the search result in system

Input: a document set, D; minimal node fanout, min; maximal node fanout, max;

Output: searched result(result of request);

Procedure:

1: Ne $\leftarrow \phi$;

2: for each d € D do

3: geo-code d and represent Ld with MBB md;

4: if [∃]e € Ne, me = md then

5: add d to e's document set De;

6: else

7: create a new entry e;

8: set me \leftarrow md and De \leftarrow {d};

9: Ne € Ne υ{e};

10: for each e € Ne do

11: build inverted file with each list lw w.r.t. every word w in

least one document d 2 De;

12: while $|Ne| > n \max do$

13: cluster Ne according to min/max into nodes, represented as new entries N'e form document summary for e in N'e

14: Ne ← N'e

15: create the root node to cover Ne and their document summaries;

16: **output** the root node;

Here, we assume that each document is mapped to one location L_d, and documents mapped to the same location are

National Conference on Emerging Trends and Applications in Engineering and Sciences (JCON-2017) International Journal of Engineering Research And Management, ISSN: 2349- 2058, Special Issue

collected in a set of entries N_e (line 2-9). According to , an inverted file is created for each entry e 2 N_e to keep the term frequencies of different words (line 10-11). Further, entries in N_e are clustered according to their locations to form IR-tree nodes, each of which is associated with a document summary. The number of outcomes included into one node is bounded by the minimum and the maximum fanouts, i.e., min and max, respectively (line 12-14).

Typically, min is set to 30% of max and max is determined as the quotient of disk page size divided by the maximum entry size. The entries for the generated nodes (i.e., N[·]e) are grouped by the same clustering logic. At the end, when the number of generated entries (i.e., |Ne|) is small enough (_max) to be represented by a node, a root node is formed and returned to complete this bulkloading (line 15-16).

V. CONCLUSION

From this system we conclude that, to make a directory based system, which is useful for people to know better knowledge about city. Get accurate information about retailers, vendors in the market. Also our system provide facility to retailers and vendors in market to increase their business.

ACKNOWLEDGMENT

We express our sincere thanks to our project guide **Prof. Kanade A. V.** who always being with presence & constant, constructive criticism to made this paper. We would also like to thank all the staff of COMPUTER DEPARTMENT for their valuable guidance, suggestion and support through the project work, who has given co-operation for the project with personal attention. Above all we express our deepest gratitude to all of them for their kind-hearted support which helped us a lot during project work. At the last we thankful to our friends, colleagues for the inspirational help provided to us through a project work.

REFERENCES

- [1] Pranali P. & Ratnaraj Kumar, "The Solution for Weak Identity in Privacy Preserving Location Proof Updating System", International Journal of Advance Research in Computer Science and Management Studies, January 2015.
- [2] H. Kido, Y. Yanagisawa, and T. Satoh, "An anonymous communication technique using dummies for location based services", In Proc. of IEEE Int'l Conference on Pervasive Services (ICPS2005), 2015.
- [3] Anusha. J.D and H. Packiaraj, "Achieving Personalized Privacy and Compromised Conspiracy in Location Proof Updating System".
- [4] Schwinger, Grin, C Prll1, and Retschitzegger, "A light-weight framework for location-based services", In Lecture Notes in Computer Science (Berlin, 2005), Springer, pp. 206_210.
- [5] Zeimpekis, Giaglis, G., and Lekakos, G, "A taxonomy of indoor and outdoor positioning techniques for mobile location services", SIGecom Exch. 3, 4 (2003), 19–27.
- [6] S. Saroiu and A. Wolman, "Enabling New Mobile Applications with Location Proofs," Proc. ACM 10th Workshop Mobile Computing Systems and Applications (HotMobile '09), 2009.
- [7] M. Shao, Y. Yang, S. Zhu, and G. Cao, "Towards Statistically Strong Source Anonymity for Sensor Networks," *Proc. IEEE INFOCOM*, 2008.
- [8] N. Smart et al., "Ecrypt II Yearly Report on Algorithms and Key Lengths (2009-2010)," ICT-2007-216676, Revision 1.0, 2010.
- [9] A. Wald, Sequential Analysis. Dover, 2004.
- [10] T. Xu and Y. Cai, "Feeling-Based Location Privacy Protection for Location-Based Services," Proc. 16th ACM Conf. Computer Comm. Security (CCS), 2009.
- [11] Y. Yang, M. Shao, S. Zhu, B. Urgaonkar, and G. Cao, "Towards Event Source Unobservability with Minimum Network Traffic in Sensor Networks," Proc. First ACM Conf. Wireless Network Security

(WiSec), 2008.