

Improved Volunteered Service With Secured Epoch Based Voronoi Cells

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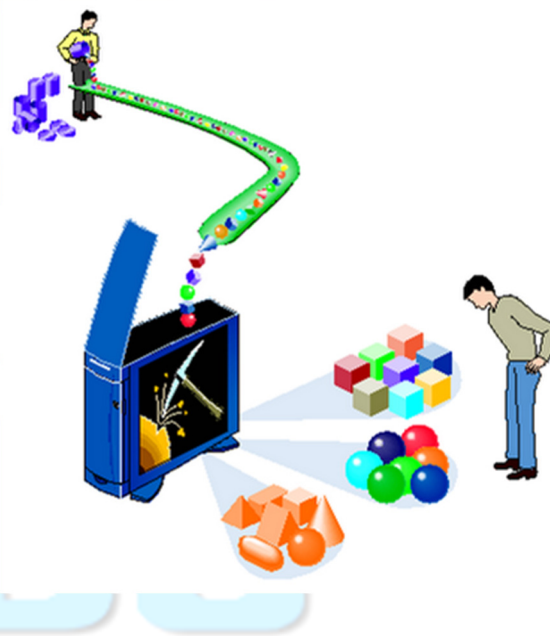
Abstract---We provide techniques which enable the users to get a solution regarding issue, based on their location and time they consume, so-called Volunteered Geographic Services system. With this system user can clear their issue or doubts with the help of other user, who are near and willing to answer user's query. System needs user's location to achieve this, so that other users can view the user's query. And also a user can remove the query from the system once they got solution regarding their issue. User can extend the area with time if they didn't get a proper or satisfied solution. User can also block the responding user, if they found as a fake. To achieve this we develop an admin module, who monitor the process and can remove the fake user from the system.

Keywords

Volunteered Geographic Service, Voronoi Cells, Epoch.

I. INTRODUCTION

DATA MINING is the process of extracting hidden, interesting, and useful patterns from large data sets.



It includes several problems like complex nature, large input data size that cannot be solved by normal techniques or approaches.

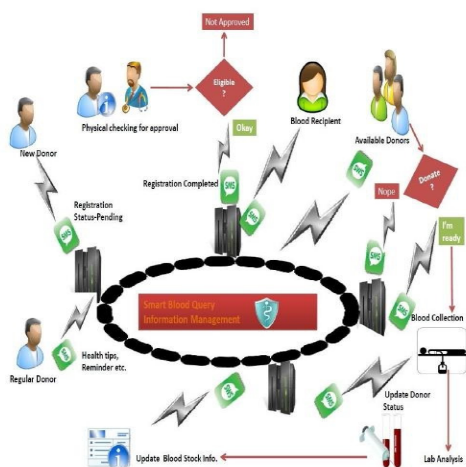
Hence the process of evolutionary algorithms were used to solve the single objective problems.

The evolutionary algorithms have been proposed for the basic data mining task prediction.

There are many application domains where users create and share information for instance, news blogs, scientific networks, social networking groups or disaster management networks.

Though many systems, do not even have the basic “attribute-value” annotation that would make a “pay-as-you-go” querying feasible.

Annotations that use “attribute value” pairs require users to be more principled in their annotation efforts.



II. RELATED WORK

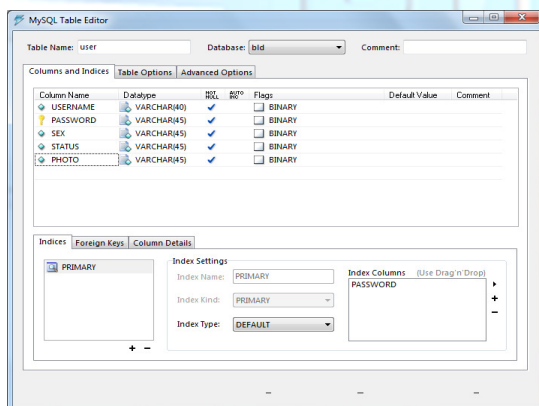
In this section, we review volunteered geographic services for users and volunteers, in this paper.

Timer will be set once the user uploads a query and is passed to all the user who are available in a covered area and the willing user can answer the query. The covered area will be enlarged when no response, so that some other volunteer can answer for user's query and time also increased. A timer is set, to get a response from the user. The elapsed area will vary if there is no response from any volunteer in that area. So that user can get a help from some other volunteers in enlarged locations. The unauthorized user can be blocked by other, if any user feels as a fake volunteer. So that, the system can be only with active persons.

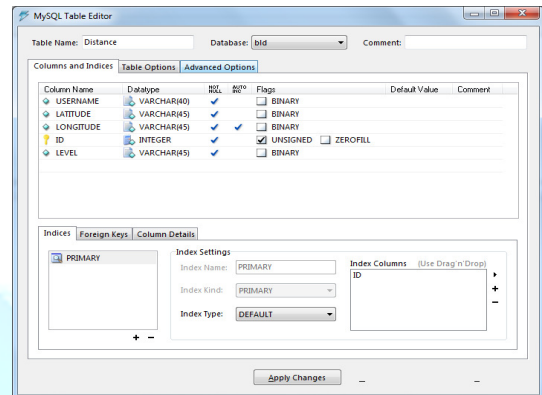
- 1) User will get a solution for sure for their query (by increasing the time and area),
- 2) User or volunteer can block, if a fake volunteer or user found,
- 3) User can give multiple queries with individual time.

We discussed,

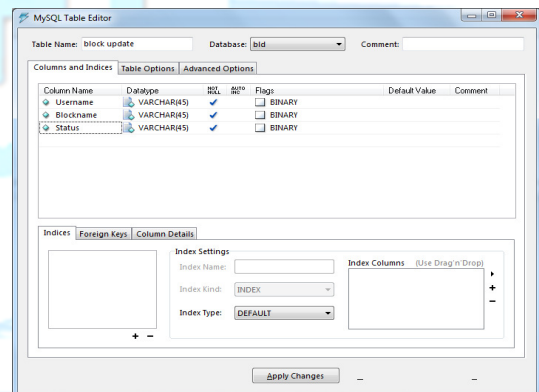
- The **user** can also upload the details in the **admin** side using **database connectivity**.



- We can find out the **volunteer distance** using **VGS tracking** with the help of **longitude & latitude**.



- Finally user can identify the **fake** volunteer or user and can **block** the person.



III. BENCHMARKS

In this section, we describe the benchmarks (datasets) that we consider in this work. The major features of each we described their details below,

Main features of the benchmarks are used in data mining identification techniques.

Technique

So-called Volunteered Geographic

Service (VGS) system:

In this service, volunteers can provide service descriptions and periodically update their locations in the system. Potential service users can provide subscriptions for relevant, nearby services, thus receiving in return notifications when there are changes to the services available.

Filtering algorithms:

The idea behind filtering algorithms is that, it might be easier to check, that a text position does not match a pattern string than to verify that it does.

Filtering algorithms filter out portions of the text that cannot possibly contain a match, and at the same time, find positions that might possibly match.

K-means Clustering Algorithm

For a given cluster assignment C of the data points, compute the cluster means m_k :

$$m_k = \frac{\sum_{i:C(i)=k} x_i}{N_k}, k = 1, \dots, K.$$

For a current set of cluster means, assign each observation as:

$$C(i) = \arg \min_{1 \leq k \leq K} \|x_i - m_k\|^2, i = 1, \dots, N$$

Iterate above two steps until convergence

IV. METHODOLOGY

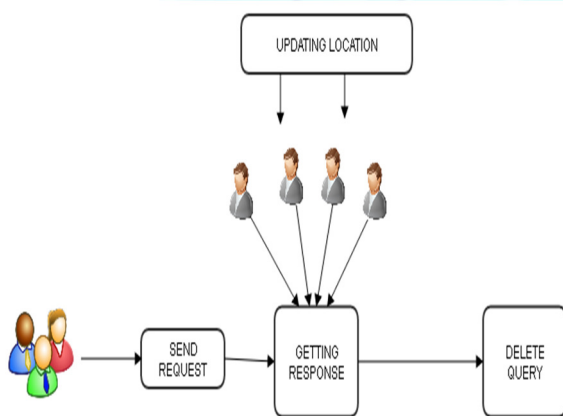
EXISTING SYSTEM

In existing system, user can only update their location and upload their queries to the system. So that responder (user willing to help) who are near to the user's location, can view the query and send responses. User receive responses from the volunteer, and user may want to wait when no response i.e. no volunteers are there in those particular location

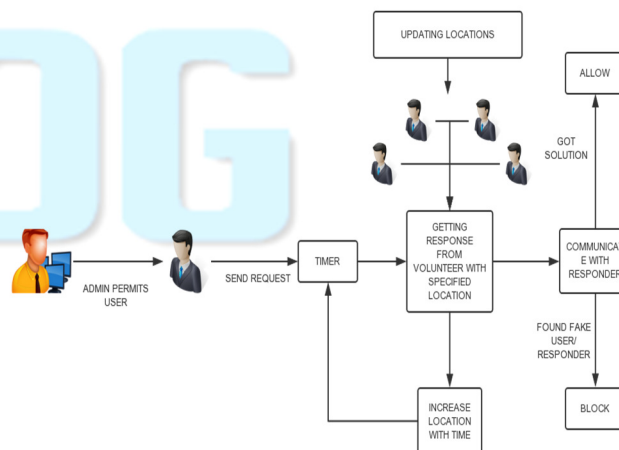
or no volunteers are interested to help that user. So the user may move out from the location, either user may get solution for their query or did not get any response from volunteer. And also user may delete the query from the system.

available in a covered area and the willing user can answer the query. The covered area will be enlarged when no response. So that some other volunteer can answer for user's query, and thus the time also increased. Once the response is received from the volunteer user can communicate with that particular user. If user finds any fake responses from the volunteer or volunteer finds any fake responses from the user, both can block the respective persons.

Architecture



Architecture



PROPOSED SYSTEM

In proposed system, user needs to get the permission from the admin, to get into the system. Timer will be set once the user uploaded their query and it is passed to all the user who are

Modules

- **Admin:** Admin will check the user, whether they are real or fake, who are wants to register in this system by verifying anauthorized proof (eg: Aadhar card etc.).
- **Dispatch Query:** Once the user has registered, they will be into VGS system. User will be located by using their latitude and longitude. If latitudeand longitude values have found, then the area would be covered.
- **GettingResponse:** Morenumber of users may belong to the system.The query will be visible to the volunteers, who are all in the mentioned location. They can view indeed user queries within the time and the interested volunteers can answer the user queries.
- **Timer:** Once user's query is uploaded into the system, timer will be invoked. If there is no response from the responder within the time, then the area will be enlarged by increasing longitude and latitude.
- **Communication:** User can communicate with the volunteer for more clarification about their queries and ideas. In this module the user can share their personal details.
- **Allow/Block:** User or Responder can block the Responder/user, if the user or responder are not satisfied with responder or user respectively, and also if they found any fake request or responding persons.

V. ACKNOWLEDGEMENT

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VI. REFERENCES

[1]. Weihuang Huang, Guoliang Li, Kian-Lee Tan and Jianhua Feng **“Efficient Safe-Region Construction for Moving Top-K Spatial Keyword Queries”**.

[2]. Peiwu Zhang, Reynold Cheng, Nikos Mamoulis, Matthias Renz, Andreas Züfle, Yu Tang, Tobias Emrich **“Voronoi-based Nearest Neighbor Search for Multi-Dimensional Uncertain Databases”**.

[3]. Tobias Emrich, Hans-Peter Kriegel, Peer Kröger, Matthias Renz, Andreas Züfle **“Boosting Spatial Pruning: On Optimal Pruning of MBRs”**.

[4]. Chuanwen Li, Yu Gu, Jianzhong Qi, Ge Yu, Rui Zhang, Wang Yi **“Processing Moving KNN Queries Using In-Order Neighbor Sets”**.

[5]. Rui Zhang, H. V. Jagadish, Bin Tian, Daigiri Ramamohanarao **“Optimized Algorithms for Predictive Range and KNN Queries on Moving Objects”**.