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EFFECTIVELY HANDLING GEOMETRIC RANGE QUERIES BY SECURING LOCATION IDENTITY

Mohammed Naseem Ahmed[1] and Dr. Md Ateeq ur Rahman[2],

Research Scholar, Dept. of Computer Science & Engineering, SCET, Hyderabad[1]

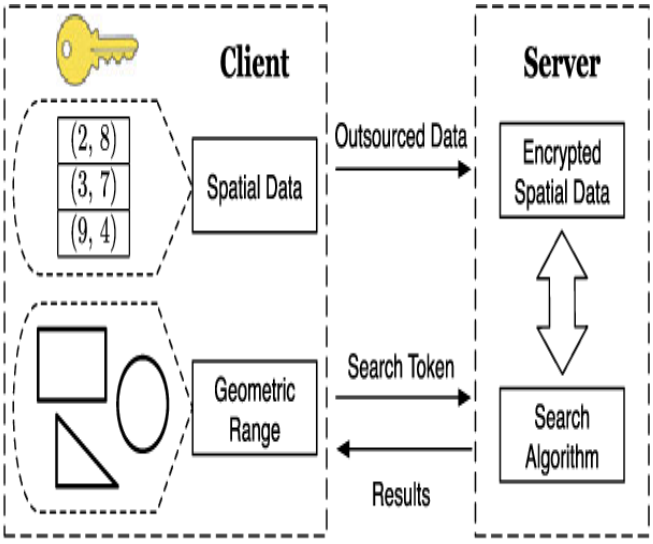
Professor, HOD, Dept. of Computer Science & Engineering, SCET, Hyderabad[2]

Abstract :- The present day systems most of the commercial services has to be utilized in the manner of location based services so as to effectively utilize the service in a faster approach. In present day systems identification of service based commercial Enterprises needs to be appointed with the geometric range query is in order to facilitate location based services show that the flexibility of utilization increases rapidly. In certain applications we may need to spread location based services using large amount of data sets that may be in the domain of social network or cloud computing which need to get privacy protected so that the security standards are getting increased the Expectations to meet current systems requirements. Set an application that demands for location based services geometric coordinates or special identification needs to get privacy protected so need to be converted into encrypted form and be stored in the corresponding server system. This privacy protected client sensitive information need to get queried much flexibly and efficiently without disturbing the security standard of the claims data and returns appropriate data points of geometric location in a quick and efficient approach. Most of the application of this kind may needs to get updated with the every moment of time given access to provide scope finally facilitating flexible querying mechanism. One of the primary functional necessities is encrypting the geometric locations needs to be effectively driven with an appropriate high standard and correction mechanism so that it could also be in a state to encourage wide range of querying the data sets.

Keywords:- *Spatial data, geometric range queries, encrypted data, privacy.*

I INTRODUCTION

In order to acquire the high level security in general be managed to encrypt the sensitive data[1] of the client so that the confidentiality is been maintained effectively but in the process of restoring the encrypted data like querying and identifying mechanism women need to adapt effective searchable encryption strategies[2][4] so that the the decide search operation is been granted to the the remote system in a most efficient and effective manner[3]. In location based services need to focus on geometric identical spot and this data when it got encrypted and stored in the corresponding server[5] whenever a client needs to retrieve that information as it is in the spatial format that is after encryption which is not functionally[7] compatible to perform fundamental behavioural operations like searching with a specific query operations in plain-text formats[6]. So the system should be in a situation to facilitate logical computational geometry for a variety of enterprenal needs facilitating client keyword search querying in some of the domain specific applications like medical field is been extensively used[8]. There are some chances to attack the sensitive information by the intruder in order to leak private sensitive locations under spotlight[10]. In order to perform searchable encryption using a plain-text querying we may need to adopt comparison algorithmic operations to decide identifiable geometric location[11] within the circular confinements or may be away from the radius of the permissible circle which could be computed well by using cross comparison operations in order to identify relevant geographic location innermost flexible, effective and efficient manner[9].



II LITERATURE SURVEY

"Practical Techniques for Searches on Encrypted Data"

In the environments of data storage service or mailing service server the data that got stored needs to get encrypted so that we can achieve privacy-preserving towards the desired store data, when we much emphasize on security sometimes there is a chance to lose or sacrifice operational functions performance. In related to that in certain circumstances when client attempts to retrieve the serviced documents which carries certain verbal words need to get evaluated the process of handling search mechanism empower the data stored in the server so that the processing of the query over the desired data needs to be driven effectively and efficiently without violating the standards of security and emphasize on increasing the data confidentiality at most. As we attempted to increase the security standards we need to adapt cryptographic and encryption methodologies that converts the plain text data into cipher-text form so that the converted data will be stored in the server and even it should facilitate retrieval process in an effective way so that the searching mechanism will be driven over the encrypted data that got stored in the data server. When the methodologies of encryption is been isolated from the un-authorized server so that any unauthorized or unreliable server calls cannot handle searching process with a secure keyword not letting the server to know about that, so that user level authorization is been driven at the data server and encryption and decryption is been carried out within the authorized secure confined users only.

"Dynamic Searchable Encryption in Very-Large Databases: Data Structures and Implementation,"

When we attempt to design server based applications that has to deal a huge data records which got stored in the database server in encrypted form which need to undergo basic functional operational methods like searchable encryption without violating the security levels. In establishing the above said system needs to get construct to deal searchable encryption in keyword based approach with well organized index based system that could address the situation to handle parallel search model with less chances of occurrence of data leakage over the desired encrypted data that got stored in the data server. Primitive process may attempt to achieve an optimal privacy preservation standard over the sensitive data but couldn't be in a situation to handle un-trusted server calls in precise quantities. so we propose a new system that could be in a situation to handle large data sets in a well synchronized manner which adopts a sophisticated dynamic single keyword searchable encryption methodology which can handle Complex search queries in a most effective and efficient manner.

"An Efficient Privacy-Preserving Location Based Services Query Scheme in Outsourced Cloud"

Location based services has to be facilitated much in the environments of of wireless Mobile ad-hoc networks so that it increases comfort-ability for the users which may lead to empower the personal interest of the customer in a most considerable way. In this kind of applications definitely we need to address security e aspects of location based services which became a challenging target in the present day systems. In this system we aim to develop efficient location-based query handling methodologies not letting any data leakage happen at the data source and so that the privacy preservation is been maintained in the most effective manner. In this recommendation system location based service related data is been redirected to the corresponding cloud data server in cipher-text form so that the users are able to avail the services by using an appropriate LBS query mechanism and the service provider is comfortable in facilitating the services in a most effective way.

III SYSTEM ANALYSIS

Existing System:

In the previous existing system which adopted a scheme that has an interaction with all client data not much focusing on trustability parameters in related to the data that got stored in the server. This system may follow geometric based location identity plan but rests on polygonal service that got derived from circular approach which covers the confined area of searchable query. In this system functional operations are being carried out over data store in the form of encrypted context and as well being driven with identity evaluation process using a private key scheme in order to increase the security standards.

Drawbacks:

1. Lack of privacy flexibility in searching geometric location based services
2. Doesn't meet security standards over the sensitive location information in effective manner.

Proposed System:

In this proposed system application demands for location based services geometric coordinates or special identification needs to get privacy protected so need to be converted into encrypted form and be stored in the corresponding server system. This privacy protected client sensitive information need to get queried much flexibly and efficiently without disturbing the security standard of the claims data and returns appropriate data points of geometric location in a quick and efficient approach. Most of the application of this kind may needs to get updated with the every moment of time given access to provide scope finally facilitating flexible querying mechanism. One of the primary functional necessity of encrypting the geometric locations needs to be effectively driven with an appropriate high standard and correction mechanism so that it could also be in a state to encourage wide range of querying the data sets.

Benefits:

1. Provides high standard of flexibility in searching geometric location based services
2. Sophisticated encryption mechanism increases the security standards over the sensitive location information in effective manner.

IV IMPLEMENTATION

Below are the primary modules that came upon segmenting the total system into subsections.

1. **Cloud data server:**

In this model of cloud data server client privileged permissions are been assigned to the corresponding account it, any add-ons to the spatial data, user key requests acceptance table, adding or revoking and user account to the available list, monitoring the total data sets, listing of encrypted file data and searchable query list in a pictorial view are being maintained the most effective and efficient way.

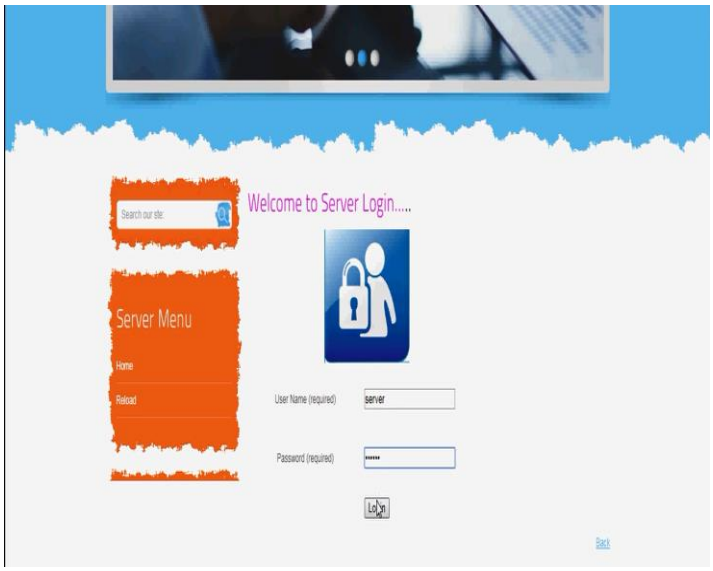
2. **Client:**

In this client module, account registration and authorisation from the server for the approval of the registered accounts, authentication check in order to to avail the services from the server, searchable range queries, searches in geometric approach, search is over special data and calculation of Geographic distances carbon facilitated effectively.

V PROJECT EXECUTION AND TESTING

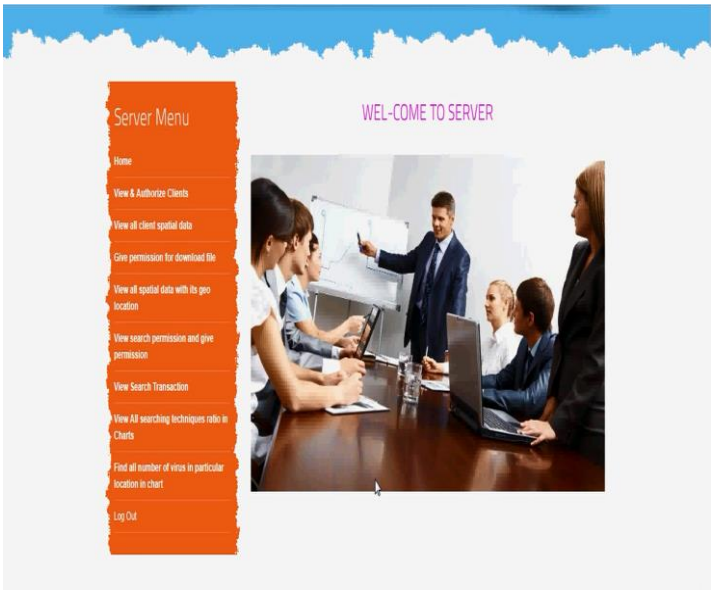
Server Login Page:

This server login page facilitates authentication process for administrator. By default username is "server" and password is "server" is been fixed for flexible execution process, which leads to cloud administrator homepage. Upon entry of wrong credentials control leads to warning page.



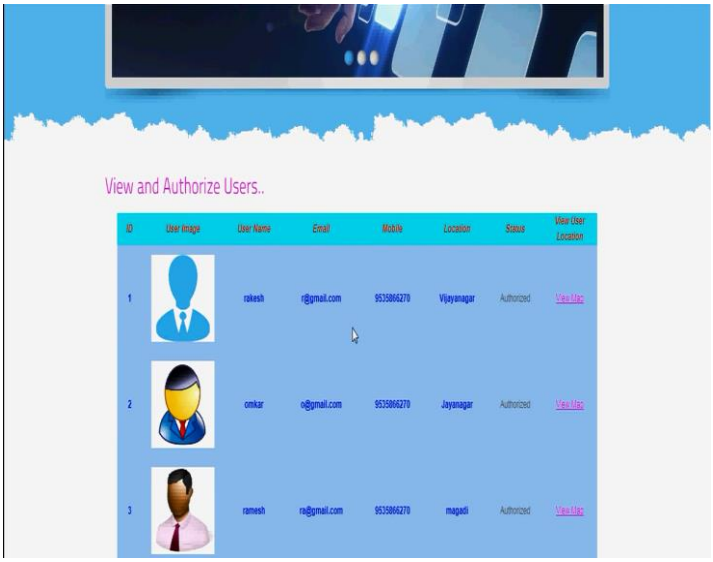
Server Home Page:

This server homepage he is an administrative page for server admin, upon entry of right credentials we will reach this page. In this page certain crucial administration activities like View and authorize clients, view all client special data, give permission for download file, view all special data with its geometric location, view search permission and give permission, view search transaction, view all searching technique ratio in charts, find all number of virus in particular location in chart server admin.



View and Authorize Page:

This View and Authorize Page is available in server module which visualizes all uses in tabular form along with their geometric location.

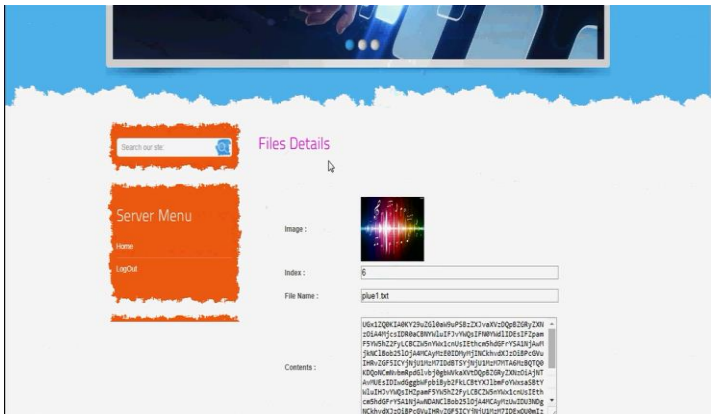


View client facial data:

In this view client facial data page all data owners and their corresponding special data files are being listed.

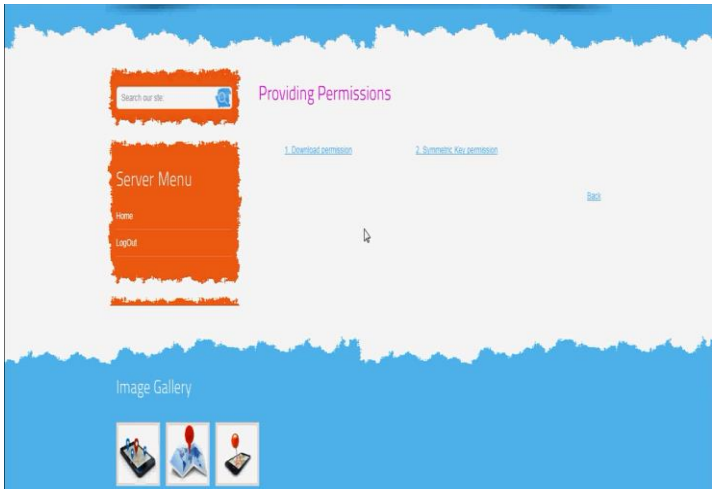
Spatial data file details:

In this Spatial data file details data on a specific spatial data information which got encrypted is been visualized.



View search permissions and assign page:

In this view search permissions and assign permission page we could be in a situation to assign download permission of a specific file and symmetry key permission can be set so that privacy preservation is been maintained effectively.

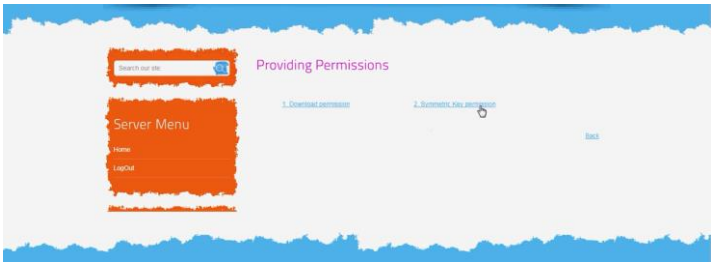


Set download permission page:

In this Set download permission page we can able to set download permission to a specific file to a specific user that belongs to specific data owner is been granted over here.

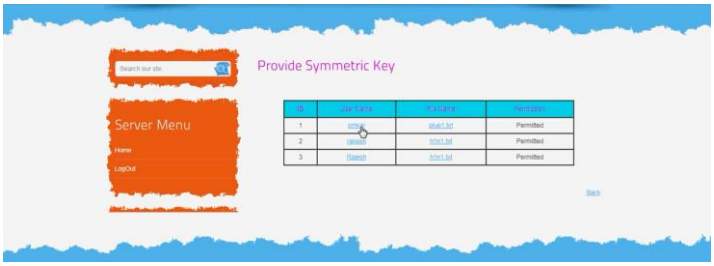
Symmetric permission initiation page:

In this Symmetric permission initiation page will facilitate hyperlink for setting symmetric key permission.



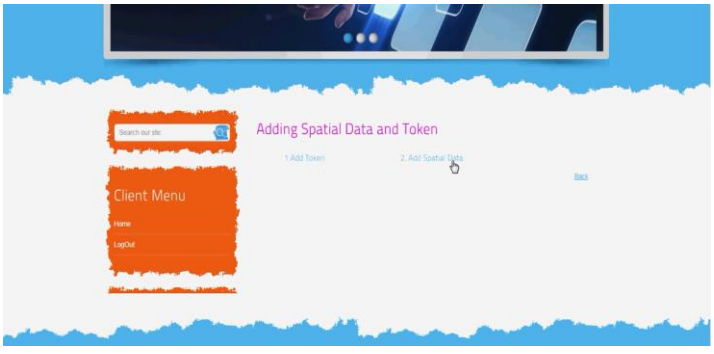
Symmetric key permission page:

In this Symmetric key permission page symmetric key is been permitted for a particular file to a corresponding user.



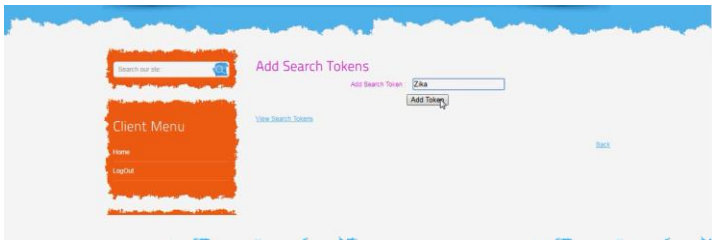
Add special data and token page:

In this Add special data and token page through which we can add a token or add spatial data using a corresponding hyperlink.



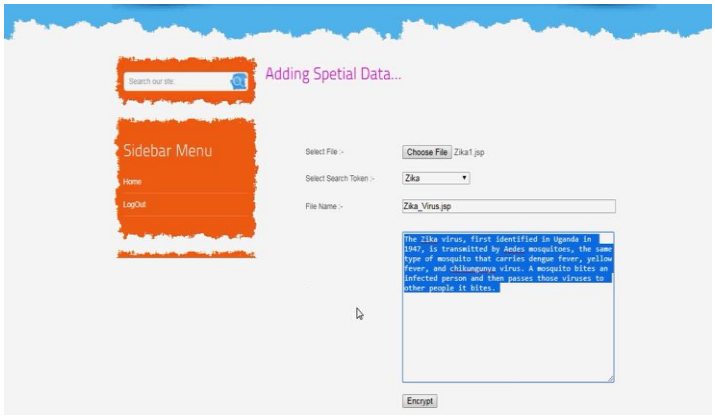
Add search token page:

Using this Add search token page new search token could be appended to the actual and facilitate and hyperlink to view all the search tokens list



Add spatial data:

In this Add spatial data page we can able to add a new spatial data search token specific filename and content with net which will get encrypted and stored.



VI CONCLUSION

In this Identification of service based commercial Enterprises needs to be appointed with the geometric range query is in order to facilitate location based services show that the flexibility of utilization increases rapidly is been achieved. Project spreads location based services using large amount of data sets which may be in the domain of social network or cloud computing which need to get privacy protected so that the security standards are getting increased the Expectations to meet current systems requirements. Setting an application that demands for location based services geometric coordinates or spatial identification needs to get privacy protected so need to be converted into encrypted form and be stored in the corresponding server system is implemented. This privacy protected client sensitive information need to get queried much flexibly and efficiently without disturbing the security standard of the claims data and returns appropriate data points of geometric location in a quick and efficient approach. Finally we can able to operate geometric ranges in a privacy preserved mode power the cipher-text data sets which is been implemented in a dual search mechanism.

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