A Combined First Order Logic Representation for SOS Based Distributed Social Network

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Abstract

Social network is connected multi node via internet where social activity is done through the social network provider distributed social network. Special type of network system in which component located on network computer communicate and co-ordinate their action by passing messages. the nodes interact with each other in order to achieve a common goal. This system will work over there characteristics like can currency of component lack of a global clock and independent failure of component. In This focused to rectify the above draw backs combined first order logic representation for SOS based distributed social network .this tells with the algorithm first order logic ,and TTL means first order predicate logic is composed of statement that are assumed to be true. The statements are composed of a atomic symbols. It is summarized reasoning in which each Sentence or statement is broken down in to a Segment or predict. SOS is very potation to asked frequently question by the user. We have also deployed a pilot version of SOS for use in a small group in Clemson University. The feedback from the users shows that SOS can provide high-quality answers.

Keywords: first order logic, system of system, social network.

I. INTRODUCTION

Although the search engines perform well in answering factual queries for information already in a database, they are not suitable for non-factual queries that are more subjective, relative and multi-dimensional. It means doing this for the purpose of creating collaborative innovation and engagement at meaningful, measurable levels tied clearly and directly to your company’s business objectives. The advent of Web 2.0 and the Social Web is clearly a game-changer, on numerous fronts. Given the rush to implement, and the opening focus on marketing specifically Versus the business more holistically, many “social media projects” end up being treated more like traditional marketing campaigns than the truly revolutionary ways in which a savvy business can now connect with and prosper through collaborative association with its customers. Also, it results in many costly interruptions to users by sending questions that they cannot answer and increase their workload of looking for questions that they can answer through a pool of received question.

SOS leverages the lightweight knowledge engineering techniques to transform users’ social information and closeness, as well as questions to IDs, respectively, so that a node can locally and accurately identify its friends capable of answering a given question by mapping the questions. Social networking web application web 2.0 web 2 the popular term new advanced technology social network SNS provides the internet processing. The social network such engaging Google [1] [2] being information searching social network. They are connected with link people and identify to internet something groups are called names such network on face book internet whatapp and social network. The social network we have hobbies things that interested such as books television video games or movies. Social network allows that have the same interest. There are new development has been of social network. A social network is website that flows to connect with friends and family sharing photo video personal information.
selected group friends’ people depends the social network link face book. My space Google and LinkedIn great way keeping with friends around words interest or social network. The search engine Google [1][2] is being used to access the information from internet. The social media like whatsapp and facebook is helps in identifying and connecting people. The new development in social network fig:2 helps in accomplishing the users latest like reading books playing games or watching movies. The social network also helps in sharing photo and personal information in a secededmanner. my space Google and linked in provides a great way to keep in touch with the people. Face book this social network provides the connectivity between people from difficult area country and from different parts of the world. A distributed network based question and answer help in finding the details which mechanism helps in finding the details more eerily that the existing search engines can do. SOS provides the high query pressing recall song which result in high quality answer reply. First order logic technique in used to calculate interest high speed of the reply answer. nlp technique will divide the question request into group of related 3 words and also contain information about which types of used and where it is from the drawback of existing system are it resource storage is limited for higher bandwidth waiting time is more and colloquial language search is not supported social network data that is all usual. Network use a specialized language for structure and content of the observation they use network cannot described and understood familiar method.

**Figure: 1 Social network**

First order logic is symbolized reasoning in which statement is broken down into a subject and predicate. The predicate modifies of properties of the subject. In this paper they focused on the aspects of social search where the searchers ask a question to the group of people they personally by means of a social network status message update. They compared this experienced to the searching for the same information with a web search engine. The social network internet processing which the internet.

**II. Motivation**

In proposed work the first order logic is used for providing quick response to the request sent from users where the information stored in more. it provider quick response by calling the nearby node or user send provider the accurate answer reply. System of system are large scale concurrent and distributed system that integration is a method to develop integration and optimization.

**III. Problem Definition**

The general problem considered in this paper is to discover value in first order logic form a set background. The NLP technique has been divided question to group related words. The existing system that limited resources to stores the high server bandwidth waiting long for reply to non factual. To tackle the problems in the previous social-based Q&A systems and realize a mobile Q&A system, a key hurdle to overcome. How can a node identify friends most likely to answer questions in a distributed fashion? To solve this Problem, in this paper, we propose a distributed Social-based mobile Q&A System (SOS) with low node overhead and system cost as well as quick response to question askers. SO Sis novel in that it achieves lightweight distributed answerer search, while still enabling a node to accurately identify its Friends that can answer a question. Process that there development behavioral component and flexibility. It is also provides a framework for understanding and provides these our family. Natural language understanding something any process with understanding this context we discontinue use of term. Social network fig[2] processing it provides the NLP taken quotation and answer social networking, the human language for English French and chinless are natural language. Computer language such as FORTRAN and c are not probably the single most challenging problem in computer science is to develop computer that can understanding natural language. So far the
complete solution to this proved elusive great deal of progress has been fourth generation language. SOS (system of system) is a slang words with example sentence notes and quizzes. Slang is a type of language consisting of words and phrase considered to be very informal. More common in speech in writing. Slang may be all things to all people according to the American poet Carl Sandburg. These social search engines group people with similar interests and refer to the historical selected results of a person’s group members to decide. Although the search engines perform well in answering factual queries for information already in a database, they are not suitable for non-factual queries that are more subjective, relative and multi-dimensional (e.g., can anyone recommend a professor in advising research on social-based question and answer (Q&A) systems?) the relevant results for the person. SOs incorporates an online social network, where nodes connect each other by their social links. Systems of systems are large-scale concurrent and distributed systems that are comprised of complex systems. It provided the social network. System of Systems Integration is a method to pursue development, integration, interoperability, and optimization of systems to enhance performance in future battlefield scenarios. The drawback of this Existing System that has limited resources to store the information and it also have high server bandwidth and waiting long time for friends reply and it accept only on-factual queries and not colloquial languages.

**Algorithm:**

Pseudo code of the friend selection algorithm conducted by node in.

1: if Received a question && Cannot answer query
2: for All nodes nj in the Friend List do
3: Calculate sim(i,j)
4: end for
5: K-node-list ← Select K highest node().
6: Send the question to the K nodes in K-node-list
7: end if
8: List Select K highest node() /
11: ← Quick Sort partition around the Kth largest element
12: return First-K-Node-List
13: /

Figure: 2 system of system

In social networks, as users are connected by their interests and social relationships, they are more willing to interact with each other, resulting in a low response delay. The first order logic derives the first-order logic representation FOL from its social information, then conducts first-order logic inference to infer its interests, from which it decides the interest ID. The left part of shows the local answerer selection process for forwarding a question in one mobile node in the SOS system. To parse a question, the node first processes the question using natural language processing (NLP), and then represents the question in the FOL format and uses the FOL inference to infer the question’s interests.

**IV. System Architecture:**

These architectural diagram shows that the local answerer selection process for forwarding a question one mobile node in the SOS system fig [3]. To parse a question, the node first processes the question using natural language processing (NLP), and then represents the question. The FOL format and uses the FOL inference to infer the question’s interests. It transforms the question to a question ID in the form of a numerical string. After node i parses its initiated question qi to a question ID, it calculates interest similarity S(qi;j) for each of its friends 2 Fi, where Fi denotes the set of node i’s friends. It then calculates the best answerer value(BA(qi;j)) for each friend j by combining’s(qi;j) and answer quality from friend j (Q(i;j)). FOL first order logic is symbolized.
reasoning in which sentence in which sentence statement is broken down in to a subject and predicate. The question and answer asked another person. A question is an illocution any that is directive illocutionary point of attempting the address to supply information. A question is a sentence types from labeled interrogative typically used to express an act with directive point mentioned above. It may pen actually so used rhetorically. There are four ways of answered question, which provides question that should be answered categorically, yes, no this that. There are question with an analytical qualified answer defining redefining the terms. There are question should be answered with a counter question that should be put aside.

**Future Enhancement**

In this paper, we are personalized social search on cloud based Q&A system. That provides the large resources to store the information. Data storage capacity and data privacy is important terms in cloud computing. In this paper we considered how to save cloud storage capacity. A combined first order logic representation for SOS based distributed social network, question and answer system. Mechanism is good for communication with one node to another node. This mechanism will become smoothing using cloud based question and answer system. Where all question and answer and answer stored in the cloud storage. Compared to this technique, its work faster and securable. The future of question and answer system using the cloud is scope full and more demandable in present scenario.

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**Conclusion:**

In this paper, we have described the design and implementation of a distributed Social-based mobile Q&A System (SOS). SOS is novel in that it achieves lightweight distributed answerer search, while still enabling a node to accurately identify its friends that can answer a question. SOS uses the FOL representation and inference engine to derive the interests of questions, and interests of users based on user social information. Also, SOS earns high user satisfaction ratings on answering both factual and non-factual questions. In the future, we will release the application in the App Store and study the Q&A behaviors of users in a larger-scale social network. To broadcasting, SOS generates much less overhead with its limited question forwarding. Since each user belongs to several social clusters, by locally selecting most potential answerers, the questions very likely to be forwarded to an answerer that can provide an answerer.
Research Methodology

FOL first order logic is symbolized reasoning in which sentence in which sentence statement is broken down in to a subject and predicate. The predicate modifies of defines the properties of the subject. In first order logic is also known as first order functional calculus. Written in the from px or p(x) where p is the predicate and x is the subject represented as a variable. In first order logic a sentence can be structure using the universal quantifier symbolized or the existential quantifier.

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