

A Review on Novel Approach for Designing Community Aware Ranking Algorithms for Expert Recommendation in Question Answer Forums

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ABSTRACT

Question and Answer forums play an important role in our daily lives of sharing information and knowledge. Users post questions and then select questions to answer in the system. Due to the rapidly growing number of users and the number of questions, it is unlikely that the user will accidentally trip over the question to answer. High quality responses during a short wait. The main purpose of this paper is to improve the effectiveness of Q&A systems by sending queries to competent and willing users to answer questions. To date, we have developed and implemented Q&A. Question and Answer Forums (QAF) are important platforms for disseminating informal information and play an important role in problem solving and learning. Expert identification is still limited and links analysis methods do not take into account the size of the community.

Keywords : Question-Answer forums, Expert identification, Overlapping community detection, algorithms, Query user network.

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I. INTRODUCTION

The Internet is a huge wellspring of statistics, in which the degree of facts is large and usually developing. Clients depend upon internet crawlers to find specific statistics on this facts base. Web crawlers, for example, Google and Bing use watchwords gave via way of means of the customers to carry out look. As of late, contemporary-day revolutionary paintings exercises, for example, Microsoft and Facebook's

social-highlighted Bing seek strive, strive to consolidate internet indexes and on-line casual groups for better hunt execution., Q&A frameworks have become being a huge asset for sharing aptitude and consequently are used by an huge quantity of Internet customers. Questions and solutions frameworks likewise shield all inquiries and solutions, consequently going approximately as a vault for statistics recovery Experts have a excessive stage of element and extra contextual facts approximately a

particular domain, consequently, isolating them from amateurs. Q&A, a web Q&A application that makes use of a social network, which forwards inquiries to the ones customers with the best capability and willingness to reply with information and hobby in questionnaires. The layout of Q&A is primarily based totally on social network structures. First, social pals frequently percentage comparable pursuits eg. lab members are very vital in pc systems. Second, social pals have a tendency to be loyal and dedicated due to the assets of "friendship promotes cooperation". Similarly, Q&A prefers interrogation amongst pals and identifies capability respondents of the query via way of means of thinking about metrics: a friend's hobby with inside the question and a friend's closeness to the questioner / forwarder. Therefore, recipients of responses have a better risk of providing incredible responses in a brief length of time.

For example, Yahoo! Answers was launch and attracted more than 10 million users in February of 2007 and hit 200 million users in December of 2009 . Q&A systems also preserve all questions and answers, thus acting as a repository for information retrieval. They are not only important for sharing technical knowledge, but also as a source for receiving advice and satisfying one's curiosity about a wide variety of subjects . With a vast population in a Q&A system, a large number of questions are posed online every day.

For example, there are 823,966 questions and answers posed to Yahoo! Answers per day . Then, when a user intends to answer a question, (s)he may be overwhelmed by the plethora of questions. Moreover, simply relying on altruistic users to provide answers cannot encourage all users to provide answers and to answer questions quickly. Considering that Social Q&A is based on informal communities. The asker and answerer are social close to each other. In this method, making certain the security is important and challenge. To handle this problem, we propose Social

Q&A, an on the internet interpersonal organization based mostly Q&A framework, that efficiently advances inquiries to individuals of noting them with mastery and enthusiasm for the inquiries' subjects.

II. BACKGROUND AND RELATED WORK

The growing importance of Q&A forums systems requires an effort to better understand and develop these systems . Activities in studied the influence of various factors (e.g., task users, system interactions and social size) in social interaction in Q&A operations. Note that the existing social network based on responding relationships to current Q&A forum systems differs from the online social network based on social media, which is used in Social Q&A forum. activities are focused on finding competent professionals and users . Instead, Social Q&A forum aims to find general users who can answer questions including opinion type questions. Other studies have been conducted to create reputable models in Q&A programs to increase the reliability of responses, and to determine the relationship between users' reputation and the quality of the answers they provide. Social Q and A directly use social media-friendly social media tools to encourage users to provide feedback without relying on an additional reputation model. Some studies classify questions into categories that have already been done, making it easier for users to find questions that have already been asked and for professionals to find questions to answer. proposed three surveillance schemes for the surveillance of interrogative terminology, and examined each program using Yahoo! Answers.

Text mining techniques also have been used to provide better answers. These categorization and text mining methods can be used in Social Q&A to more accurately derive user interests and question interests. Li et al. proposed a language model by combining expertise estimation and availability estimation, and later proposed category-sensitive language models

for expert identification, which helps route questions to available and capable experts.

Zhou et al. classified the questions using a variety of local and global features of questions and users relationship in order to route a classified question to its potential answerers.

Caso et al. leveraged question category to enhance question retrieval in community-based Q&A systems.

Guo et al. proposed a topic-based model to identify appropriate answerers by calculating the similarities between questions topics and users specialists.

Researchers also began to check social networks within the area of search engines. Evans et al. identified searching as a group action and demonstrated that social interactions can help improve the search results.

Morris et al. discussed the growing trend towards posting queries as social network statuses rather than using web search engines. However, such question flooding to all or any of a user's friends may overburden the buddies, resulting in frustration.

Horowitz and Kamvar presented a social computer programme, which finds the proper person to satisfy a user's information need and provides trust supported social intimacy. Different from previous Q&A system works, this work focuses on system design by leveraging social network properties and shows its promises for performance enhancement. SOS is additionally a Q&A system supported a social network. However, SOS focuses on realizing a mobile Q&A system in an exceedingly very distributed manner and using knowledge engineering techniques. Also, it assumes that social closeness is already provided by users. Instead, SocialQ&A focuses on the thanks to leverage social network properties in better identifying potential answerers with

predefined interest categories and showing its benefits through the analysis on real users' Q&A activities.

III. OBJECTIVES

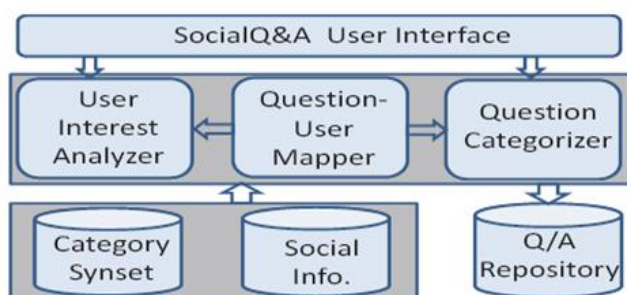
- 1.1 To analyse the question and answer system behavior of system. Also analysed the features of questions posted, the questioning and answering a time of activities of users.
- 1.2 To improve the performance of Q & A systems by actively forwarding questions to users who are capable and willing to answer the question.
- 1.3 To enhance social question and answer with security and proficiency upgrades by ensuring users protections and recongnizes and recovery answers naturally for queries.
- 1.4 To develop an effective forum under social networking and to provide high quality answer with short turnaround time.
- 1.5 To connect the Q & A system with social interest and mutual relationship and to make social Q & A system a reliable source of information for all users.

IV. PROPOSED METHODOLOGY

The design of social Q&A consists of three components: user interest analyzer, question categorizer, and question user mapper. User interest analyzer associates each user with a vector of interest categories .question categorizer associates a vector of interest categories to each question. Then supported user interest and social closeness, question user mapper identifies potential answerers for each question. the planning of security and efficiency enhancement methods social question and answer incorporates three methods to enhanced its security and efficiency performance. The bloom filter based personal information exchange method protects users privacy including friendship and interest information.

The routing based mostly answer forwarding technique protects the identification of the verbalizer and responder from being exposed. The responder retrieval for perennial queries mechanically notice the solution for the queries. Comparative trace driven experiments. Conducted the excellent massive scale simulations to gauge social letter of the alphabet & A as compared with different strategies. result's urged that social letter of the alphabet & A improves the standard of answer and reduced the wait time for answer. the event of world social letter of the alphabet & A have a image the social letter of the alphabet & A system with user interfaces and conduct a true world tiny scale check with real users from Asian nation, the u k and united state for the amount of roughly one month.

The strategy of Social Q & A. Social Q& A is created out of three segments: User Interest, Question Categorizer, and Question-User Mapper. Client Curiosity Analyzer connects every single client with a vector of intrigue classes. Question Categorizer partners a vector of intrigue classifications to every single inquiry. At that point, in view of client intrigue and social closeness Question-User Mapper recognizes prospective answerers for every single inquiry.



To simply the question and answer systems by using social media to analysed user interest based on that forwarding questions to users who are capable and willing to answer the questions with the short span and high quality.

V. SYSTEM REQUIREMENT

- IDE : Visual Studio 2019
- DATABASE : Microsoft Sql Server
- TECHNOLOGY : .NET MVC
- FRONT END : Bootstrap Framework
- IMPLEMENTATION LANGUAGE : C#

VI.CONCLUSION

Question Answer Forum has changed how question and answer system used to work on social media . we have implement a system in which many user are getting the answer they really need maintaining complete privacy of the profiles. Also maximum user have found our system quite useful in comparison to other question and answer system out there. We have successfully implemented a complete question and answer system which can outperform its co petition keeping all factors integrated.

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