Finding unique Answer in Community Question Answering System

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Abstract: Web based CQA system come in to the focus when user searches question. Any web based user searches on the internet online QA system provides the answers using matching keywords and the matching concept. Because of that sometimes user do not get the proper answers of asked question. For that research on the QA system is going on which work on the social-based Q&A systems that rely on an asker’s social friends to provide answers. However, this method cannot find answers for a question which does not belonging to the asker’s interests. So, considering this problem, the new system CQA is proposed. This system improves the response latency and answer quality in both the social domain and global domain. It uses neural network based friend ranking method to identify answerer candidates by considering social closeness and Q&A activities. In existing works, we used weak tie assisted social based potential answerer location algorithm and an interest coefficient based uncategorized question forwarding algorithm. In this paper we are also having forum support when user do not get proper answer, and so user takes part in online discussion. Sometime user enters wrong question at time posting, so using the fuzzy dictionary we correct the words which help system to work properly. The main aim is to remove the word mismatch problem using the Lesk algorithm.

Keywords: CQA, Fuzzy spell check API, fine grained and QA forwarding, online forum.

Introduction:
Community Question Answering (CQA) on web forums such as Quora, Yahoo answer and Stack Overflow are more popularity Forums which become less extreme only indirectly via the community. In which user can post question and answers freely. This has been seen on two sides a) a user can freely ask any question and can expect a best variety of answers based on the answers rating. b) It takes efforts to go through the provided answers of varying quality and to make sense of them. It is not a better option for a popular question to have hundreds of answers, and it is very time-consuming for a user to inspect them all.

Which have been used more options support to this all problem. The main approach is to propose a system which may help to automate the process of finding best answers of newly posed questions. So going forward to this paper, it introduced rank based QA pair and online forum support technique. The Community Question and Answer (CQA) system have large number of users where they have different types of questions. User asks questions in his community and rates the answers so that answerer can act like expert. User acknowledges the answerer when he gets best answer by rating same answer and likewise high rated answers act like experts and also helps to and near to best answer. It improves response rate and response delay of answer quality in both the social community and global community. Since, the interest coefficient based uncategorized QA forwarding algorithm and weak tie assisted social based potential answerer location algorithm.

Related work:-
In this system we are developing centralize QA system that are solving the query that faced by the user. For that we are doing some background study with related research papers. H. Shen [15] proposed distributed QA system has considering the feedback with closeness in addition to interest similarity in question forwarder selection in order to increase the likelihood of the receiver to answer/forward the question. P. Gun Woo [54] has work on the rank model with representation of the answer model with the help of ranking algorithm, Influence Rank, which is basis of analyzing relationship in terms of users’ activities and their mutual trusts. Y. Soung Woung in Quora system that considered as the vote system that could be found out the best answer with best voting [5]. The work done with share system with the help of weak and strong ties that are consider to transfer your question with different community [8]. A semi-supervised learning method to identify high quality content and users in CQA that dramatically reduces the required amount of manually labeled data for training, while outperforming state-of-the-art supervised methods [16] [3]. In this work, design a truthful mechanism for expert finding by a chain of individuals from the initiator to the expert, where each intermediate user makes a decision using only local information. Our mechanism also takes the users’ self-interest into account with a well-designed payment strategy [21]. A propagation based social-aware replication framework using a hybrid edge cloud
and peer-assisted architecture, namely PSAR, to serve the social video contents [27]. Wang et al. [20] two profound conviction systems with various designs have been introduced in light of the QA joint conveyance and the response to-question remaking standards individually. Both the models demonstrate great execution on displaying the semantic importance for the QA sets, utilizing just word event highlights. Taking the information driven methodology, our DBN models take in semantic learning from extensive measure of QA sets to evaluate the semantic pertinence amongst inquiries and their answers.

Motivation:
There are many CQA systems which are useful for people for searching question of their interest and getting their answer on the web forums but every time user search new question in return the user get lot of answer, to analyzed those all answer more time consuming. So in this paper proposed system work on rank model based on QA pair rating and online forum support.

Fig: System Architecture

Overview:
1) Login and Registration with interest- In this module, the system receive information related to user and stored his/her subject of interest.
2) Post Question and Answer- In this module, the system uses Gmail API to send posted question and answer that are come newly.
3) Fine grained - In this module, the system uses a rating of answer given by satisfied system user and calculates the average rating of every answer. Based on rating find the best answerers.
4) QA forwarding – Question in other community are come in different community transfer into correct community using weak and strong ties.
5) Forum site – Question are not found in system user can post on online forum system.

Conclusion:
CQA is the unified distributed QA system incorporating both social community intelligence and global collective intelligence. To find good answerer candidates in a users social network. iASK is only QA system which focuses on user’s.

Reference:


