

Case Study on Interactive Social Networking System

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Abstract: Question and Answer (Q&A) frameworks assume an imperative part in our day by day life for data and information sharing. Clients post inquiries and pick inquiries to reply in the framework. Because of the quickly developing client populace and the quantity of inquiries, it is far-fetched for a client to discover an inquiry by chance that (s) he can reply. Additionally, charitableness does not urge all clients to give answers, also astounding answers with a short answer hold up time. The essential goal of this paper is to enhance the execution of Q&A frameworks by currently sending inquiries to clients who are able and willing to answer the inquiries. To this end, we have outlined and actualized Social Q&A, an online informal community based Q&A framework. Social Q&A use the informal community properties of basic intrigue and shared trust companion relationship to recognize an asker through fellowship who are destined to answer the inquiry, and improve the client security. We additionally enhance Social Q&A with security and productivity improvements by ensuring client protection and distinguishes, and recovering answers naturally for repetitive inquiries. We portray the design and calculations, and led exhaustive expansive scale re-enactment to assess Social Q&A in examination with different techniques. Our outcomes propose that informal communities can be utilized to enhance the appropriate response quality and asker's holding up time. We additionally actualized a genuine model of Social Q&A, and examine the Q&A conduct of genuine clients and inquiries from a little scale true Social Q&A framework.

Keywords: Question –Answering system, text mining, Information Retrieval (IR).

I. INTRODUCTION

The Internet is a critical wellspring of data, where the measure of information is huge and continually developing. Clients depend on web crawlers to discover particular data in this information base. Web crawlers, for example, Google and Bing use catchphrases gave by the clients to perform seeks. As of late, mechanical innovative work exercises, for example, Microsoft and Facebook's social-included Bing look try, attempt to consolidate web indexes and online social net-works for higher hunt execution. As past research has demonstrated, web indexes perform well in ordering website pages and furnishing clients with applicable substance to their scan yet are not suited for non-true inquiries for example, "Which is the best neighbourhood auto shop?" To address this specific class of non-authentic inquiries, numerous Question and Answer (Q&A) frameworks, for example, Yahoo! Answers, Baidu Zhidao, Stack Exchange, Quora and Ask have been produced. Since their origin, Q&A frameworks have ended up being a significant asset for sharing aptitude and thus are utilized by a substantial number of Internet clients.

II. OVERVIEW

SQA sites exemplify the user-generated and user-rated content. Anyone can ask and answer questions, rate content submitted by others, and view the community's aggregate assessment of which questions, answers, and users are best. Also private questions can be asked to particular experts. Sites featuring answers by experts are not strictly social Q&A, though many SQA sites offer a function to identify contributors as peer experts, given users' assessments of their past contributions in particular topic areas. In their proposal for a social Q&A research agenda, Shah et al. (2009) propose a working definition of social Q&A as a site or service requiring:

- A method for users to present an information need in the form of a natural language question (as opposed to a keyword query)
- A forum for public response
- A community, based on participation level, in which the above transactions are embedded. They identify three primary research areas in social Q&A: user motivation and behavior, information quality assessment, and design and technological factors impacting participation.

III. BENEFITS

- Different from the existing Q&A systems, due to the importance of users privacy, we future introduce security and efficiency enhancement to protect users privacy while users using social network answering questions.
- Social Q&A incorporates three methods to enhance its security and efficiency performance. The bloom filter based personal information exchange method protects users' privacy including friendship and interest information.
- The onion routing based answer forwarding method protects the identities of the asker and the answerer from being exposed.
- The answer retrieval for recurrent questions automatically finds the answers for recurrent questions.
- We conducted comprehensive large-scale simulation to evaluate Social Q&A in comparison with other methods. Our results suggest that Social Q&A improves the quality of answers and reduces the wait time for answers.
- We have prototyped the Social Q&A system with user interfaces, and conducted a real-world small-scale test with real users from India, the United Kingdom, and the United States for a period of approximately one month.
- We have analyzed the features of the questions posted, the questioning and answering activities of users, the quality of answers, and the wait time for answers. Analytical results show the benefits of Social Q&A in enhancing answer quality and wait time.

IV. IMPLEMENTATION

Implementation Section:

A. Source code for Home page:

```
<% @ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<link href="css/bootstrap.min.css" rel="stylesheet">
<link href="css/style.css" rel="stylesheet">
<link href="css/owl.carousel.css" rel="stylesheet" type="text/css">
<link href="font-awesome-4.1.0/css/font-awesome.min.css" rel="stylesheet" type="text/css">
</head>
<body>
<!-- PRELOADER STARTS HERE -->
<div class="shym-preloader"></div>
<!-- /PRELOADER ENDS HERE-->
<!-- HEADER STARTS HERE -->
<header class="navbar navbar-inverse navbar-fixed-top heading" role="banner">
<div class="container">
<div class="navbar-header">
<button type="button" class="navbar-toggle togglebutton" data-toggle="collapse" data-target=".navbar-collapse">
<span class="sr-only">Toggle</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a class="shym-logo"><img src='img/bg.png' alt='Shym'/></a>
</div>
<div class="collapse navbar-collapse navbar-collapse">
<ul class="nav navbar-nav navbar-right">
<li class="dropdown"><a href="#" class="dropdown-toggle" data-toggle="dropdown"><i class="fa fa-fw fa-home"></i>ADMIN</a>
<ul class="dropdown-menu">
<li>
<a href="adminlogin.jsp">LOGIN</a></li>
</ul>
</li>
<li class="dropdown"><a href="#" class="dropdown-toggle" data-toggle="dropdown"><i class="fa fa-fw fa-support"></i>USER/PREGNANT
LADY</a>
<ul class="dropdown-menu">
<li><a href="pregistration.jsp">REGISTRATION</a></li>
<li><a href="pllogin.jsp">LOGIN</a>
</li>
</ul>
</li>
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown"><i class="fa fa-fw fa-users"></i>EXPERTS<i class="icon-angle-down"></i></a>
<ul class="dropdown-menu">
<li><a href="experts.jsp">LOGIN</a></li>
</ul>
</li>
</ul>
</div>
```



```
</div>
</div>
</header><!-->
<section class='gallery'>
<div classhome-caption">
</div>
</section>
<!--/APPLICATION ENDS HERE-->
<!--pink satrts here-->
<section class='shym-feature'>
<div class='container'>
<div class='row'>
</div>
<div class='row'>
</div>
<div class='row'>
<div class='col-sm-4 shym-feature-data'>
<div class='col-xs-3 fe-icon'>
<span data-scroll-reveal="wait 0.25s, then enter top and move 40px over 1s" ><i class="fa fa-book"></i></span>
</div>
</div>
</div>
<!------->
</div>
</section>
<!--/FEATURE ENDS HERE -->
<!--SHYM-USER STARTS HERE -->
<section class='shym-user'>
<div class='container'>
<div class='shym-user-title' >
<h3 class='shym-text-center shym-text-uppercase'>Best Pictures</h3>
</div>
<!--===== SLIDER PART =====>
<div id="owl-team">
<!--===== SLIDER PART =====>
<div class="team">
<div class="img">
<div class="over">
<i class="fa fa-eye"></i>
<div class="des"><a href="#"></a>
<p>Some people have questions about how pregnancy happens. Some have questions about avoiding a pregnancy.
</p>
</div>
</div>
</div>
</div>
<!--===== SLIDER PART =====>
<div class="team">
<div class="img">
<div class="over">
<i class="fa fa-eye"></i>
<div class="des"><a href="#"></a>
<p>Others are considering pregnancy and have questions about pre-pregnancy health, or infertility. And some wonder about options for an
unintended pregnancy</p>
</div>
</div>
</div>
</div>
<!--===== SLIDER PART =====>
<div class="team">
<div class="img">
<div class="over">
<i class="fa fa-eye"></i>
<div class="des"><a href="#"></a>
<p>Many women need information about pregnancy tests. Pregnant women may also have questions about prenatal care and the stages of
pregnancy.</p>
</div>
</div>
</div>
</div>
<!--===== SLIDER PART=====-->
<div class="team">
<div class="img">
<div class="over">
```



```
<i class="fa fa-eye"></i>
<div class="des"><a href="#"></a>
<p>And women who are concerned about pregnancy loss may have lots of questions about miscarriage or ectopic pregnancy </p>
</div>
</div>
</div>
</div>
<!--===== SLIDER PART =====>
<div class="team">
<div class="img">
<div class="over">
<i class="fa fa-eye"></i>
<div class="des"><a href="#"></a>
<p>
    Only you can decide what is best for you when it comes to pregnancy. But we are here to help</p>
</div>
</div>
</div>
</div>
</div>
<!--===== SLIDER PART =====>
<div class="team">
<div class="img">
<div class="over">
<i class="fa fa-eye"></i>
<div class="des"><a href="#"></a>
<p>
    A staff member at your local Planned Parenthood health center can talk with you about all of your pregnancy-related concerns. And we can help you get care that you need
</p>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
<!--/SHYM -USER ENDS HERE -->
<!--PICTURE INFORMATION STARTS HERE-->
<section class='picture-information'>
<div class='container'>
<div class='row'>
<div class='col-md-12 shym-text-center'>
<h3 class='shym-text-uppercase'>SocialQ&A: An Online Social Network Based Question and Answer System</h3>
</div>
<div class='gap'>
</div>
<div class='col-md-12 col-sm-12 col-xs-12'>
<div class='col-sm-3 '>
<div class='picture-info' data-scroll-reveal="wait 0.25s, then enter right and move 40px over 1s">
<img src='img/baby_0.jpg'/>
<p>Many women need information about pregnancy tests. Pregnant women may also have questions about prenatal care and the stages of pregnancy.</p>
<div class="shym-overlay">
<div class="shym-picture-detail-inner">
<h3><a href="#">SocialQ&A theme</a></h3>
<p>Many women need information about pregnancy tests. Pregnant women may also have questions about prenatal care and the stages of pregnancy.</p>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
<div class='col-sm-3 '>
<div class='picture-info' data-scroll-reveal="wait 0.25s, then enter left and move 40px over 1s">
<img src='img/baby_2.jpg'/>
<p>Many women need information about pregnancy tests. Pregnant women may also have questions about prenatal care and the stages of pregnancy.</p>
<div class="shym-overlay">
<div class="shym-picture-detail-inner">
<h3><a href="#">SocialQ&A theme</a></h3>
<p>Many women need information about pregnancy tests. Pregnant women may also have questions about prenatal care and the stages of pregnancy.</p>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
```

```
</div>

</div>
<div class='col-sm-3'>
<div class='picture-info' data-scroll-reveal="wait 0.25s, then enter bottom and move 40px over 1s">
<img src='img/baby_7.jpg'/>
<p>Many women need information about pregnancy tests. Pregnant women may also have questions about prenatal care and the stages of pregnancy.</p>
<div class="shym-overlay">
<div class="shym-picture-detail-inner">
<h3><a href="#">SocialQ&A theme</a></h3>
<p>Many women need information about pregnancy tests. Pregnant women may also have questions about prenatal care and the stages of pregnancy.</p>
</div>
</div>
</div>

</div>
<div class='col-sm-3'>
<div class='picture-info' data-scroll-reveal="wait 0.25s, then enter top and move 40px over 1s">
<img src='img/baby_6.jpg'/>
<p>Many women need information about pregnancy tests. Pregnant women may also have questions about prenatal care and the stages of pregnancy.</p>
<div class="shym-overlay">
<div class="shym-picture-detail-inner">
<h3><a href="#">SocialQ&A theme</a></h3>
<p>Many women need information about pregnancy tests. Pregnant women may also have questions about prenatal care and the stages of pregnancy.</p>
</div>
</div>
</div>

</div>
</div>
</div>
</div>
</div>
</section>
<!--/PICTURE INFORMATION ENDS HERE -->
<!--/QUOTE ENDS HERE-->
<script src="js/jquery.js"></script>
<script src="js/bootstrap.min.js"></script>
<script type="text/javascript" src="js/owl.carousel.min.js"></script>
<script src="js/scrollReveal.js"></script>
<script src="js/function.js"></script>
</body>
</html>
```

b) Admin Login Servlets code

```
package com.admin;
import javax.servlet.RequestDispatcher;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import com.DAO.AdminDAO;
public class AdminLogin extends HttpServlet{
    public void doPost(HttpServletRequest request,HttpServletResponse response)
    {
        try
        {
            String admin=request.getParameter("username");
            String pass=request.getParameter("password");
            System.out.println(admin+"---"+pass);
            HttpSession session = request.getSession(true);
            session.setAttribute("username",admin);
            AdminDAO adminDAO=AdminDAO.getInstance();
            boolean result=adminDAO.checkAdmin(admin, pass);
            if(result)
            {
                RequestDispatcher rd=null;
                HttpSession hs=request.getSession();
                hs.setAttribute("admin", admin);
                rd=request.getRequestDispatcher("/jsp/admin/adminhome.jsp");
                rd.forward(request,response);
            }
            else
```

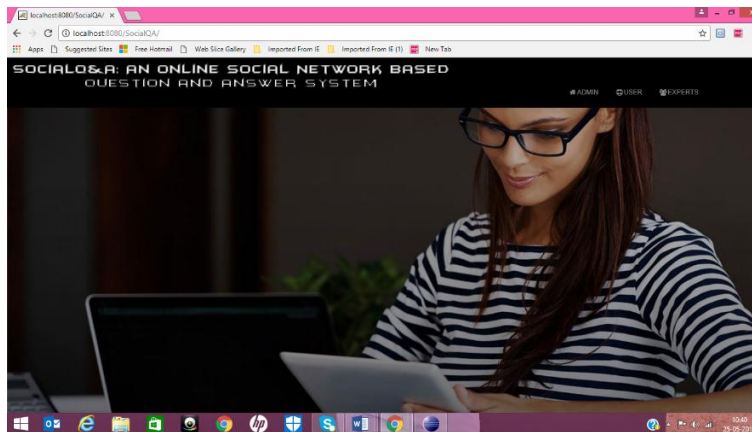


```

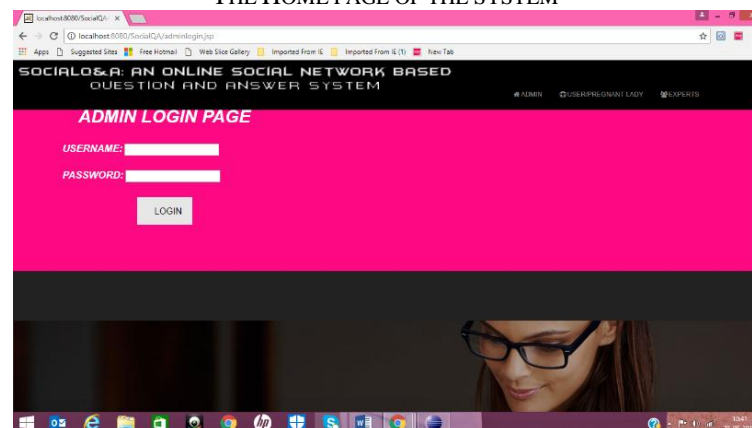
    {
//With Delete Confirmation
for(int i=0;i<chk1.length;i++)
{
    String eid = chk1[i];
    AdminDAO.deleteExpertDetails(eid);
}
rs=AdminDAO.getexpert();
request.setAttribute("rs", rs);
rd=request.getRequestDispatcher("/jsp/admin/Expert.jsp?no=3");
rd.forward(request,response);
}
}
catch(Exception e)
{
    System.out.println("Opps's Error is in Admin Companylist Servlet : ");
    e.printStackTrace();
    out.println("Opps's Error is in Admin companylist Servlet : "+e);
}
}
}

```

V. RESULTS AND SNAPSHOTS



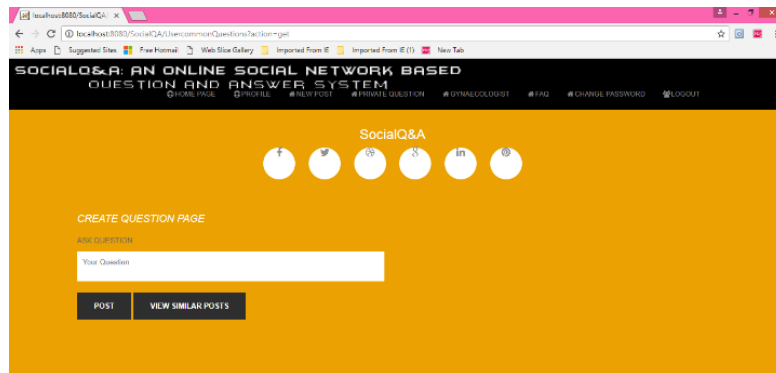
THE HOME PAGE OF THE SYSTEM



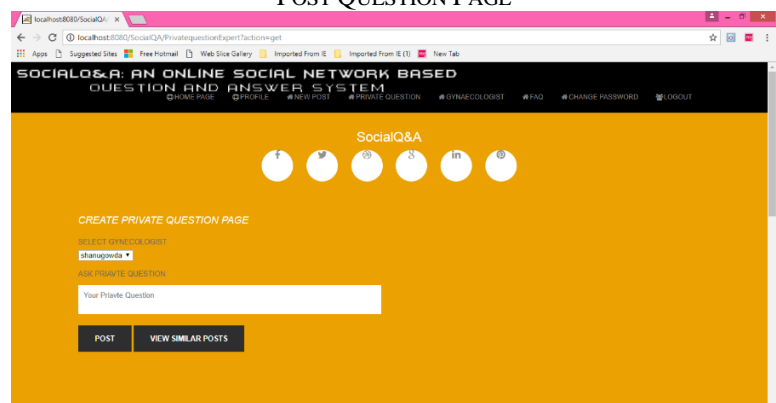
THE ADMIN LOGIN PAGE



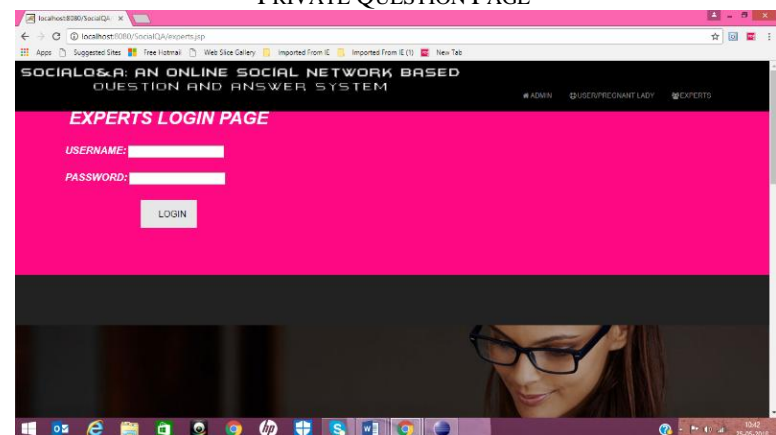
USER LOGIN PAGE



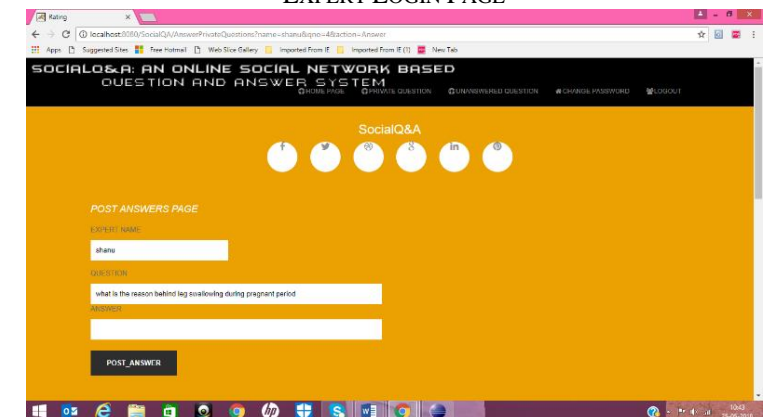
POST QUESTION PAGE



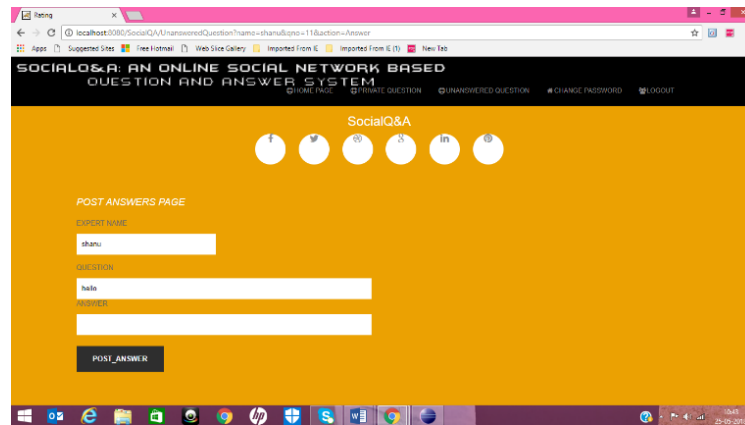
PRIVATE QUESTION PAGE



EXPERT LOGIN PAGE



POST ANSWER PAGE



PRIVATE ANSWER PAGE

VI. CONCLUSION

To increase the quality of answers received and decrease the wait time for answers, we have developed and prototyped an online social network based Q&A system, called Social Q&A. It utilizes the properties of a social network to forward a question to potential answer providers, ensuring that a given question receives a high-quality answer in a short period of time. The bloom filter based enhancement methods encrypt the interest and friendship information exchanged between users to protect user privacy. The onion routing based answer forwarding protects the identities of askers and answerers. To enhance answer quality and reduce answer wait time in current Q&A systems, and demonstrate the secure and efficiency improvement achieved by the enhancements.

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