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Design and Implementation of Private Social Network

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Abstract*: Private social networking, is a web-based networking platform which is used in a particular Institution, schools, colleges or organizations (In this current project we are implementing it for college institution purpose only). In this social network people can communicate securely, since it's a private social network and it's not free, each & every student must pay the amount decided by the institution. It's not compulsory to join this social network it's the student wish. If he need this social network then the admin will provide full support to the student to activate the account. In this network students can communicate with their teachers in order to get help in studies. Even the teachers can also update latest news about technology, politics etc. And the time table, circular information for students and for college can be updated by teachers or institution, so that message can be passed to every student easily. In this network student can upload images, document files. This private network is highly anti-threatened towards social disturbing activities, so that there'll be no disturbances in the institution. All the User Accounts created in this Social network are valid only for Limited time. In this project all the data will be accepted through .JSP and .PHP scripts which is our front end. All the data will be managed by the database. MySQL which is our back end.

Keywords: Private, anti-threatened, communicate, teacher, student and institution, Social, Network.

I. INTRODUCTION

Several important websites and applications already exists that are being used by all the people of the country & people around the world. But these websites have some disadvantages like there is secure for the data being uploaded. It's a huge network based website. Based on these technology we thought of creating a website with the help of which we can make out the network & connect all students and lectures under one roof. This thought came to reality with the help of our team member's co-operation and named it as "PRIVATE SOCIAL NETWORK".

Different types of websites were seen before creating this, we took some information from each of the site we visited & then continued with our website. A brief discussion on the research done by our team and also with guide. We have discussed about the tools which we are going to utilized in this project to develop the website based on algorithm followed by conclusion & reference in subsequent sections.

II. LITERATURE REVIEW

1) Haris Memic Dzemal has worked on "Fitcolab Experimental Online Social Network", He concluded the paper presented and documented Fitcolab experimental online social network, Rich datasets from this OSN(Online Social Network) have been collected and are yet to be analysed and modelled as a part of a larger research project whose goal is to study network structural features of online social networks more comprehensively than it has been done to date, Described were also the environment setting of the system and its users, development process of the system, and data collection methods. At the last, network boundary specification was accomplished in order to disclose and remove users that, although registered, in reality did not belong to the social network and thus should not be included in statistical analyses.
2) Prateek Dayal is the CEO and Co-founder of Support Bee, He is a programmer turned CEO and still finding his way in the business world. This book wants to show you how to build real world applications using Backbone.js. Unlike many books on backbone.js, this one is based on (and talks of) a real world application used by hundreds of companies and thousands of people. An application that is constantly evolving and getting new features etc. The author's goal is to evolve the book as the application evolves.

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3) Authors Alexander Viejo, in online social networks (OSN), users quite usually disclose sensitive information about themselves by publishing messages. At the same time, they are (in many cases) unable to properly manage the access to this sensitive information. Web search engines (WSEs) build user profiles and use them to offer an enhanced web search experience. Nevertheless, these elements might contain sensitive data that may represent a privacy threat for the users. There are some works in the literature that address this situation while preserving the profile usefulness. These schemes submit synthetic queries that are fake but related to the real general interests of the user. Specifically, they rely on past user queries to obtain the legitimate interests of each user. We argue that this is not always the best strategy and, in this paper, we study the use of social networks to gather this information and provide a better personalized service while offering an equivalent privacy level.

4) Authors T. Ryan Hoens and Marina Blanton Department of Computer Science and Engineering University of Notre Dame. With the proliferation of internet-based social networks into our lives, new mechanisms to control the release and use of personal data are required. As a step toward this goal, we develop a recommendation system which protects the privacy of user answers while allowing them to learn an aggregate weighted average of ratings. Due to the use of social network connections, the queried obtains a more relevant and trustworthy result than what generic anonymous recommendation systems can provide, while at the same time preserving user privacy. We also give experimental performance results for our solution and several recently developed secure computation techniques, which is of independent interest.

III. PROPOSED STATEMENT

Proposed system is also a Private Social Network, but it's only for a particular institutions or Organizations like Colleges, Schools and Private limited companies. Proposed system has high data security since it is stored with in the institution or organization. Users get feel of their data is completely safe and that is not going to the public network that is to internet. Proposed system assure the users that their data is completely safe, because the new servers and data base is implemented within the institution or organization. Proposed system has no possibility to have fake accounts. Because in order to join this network the user must be a member of the institution or Organization, once the member leave the institution or Organization that member's data can be backed up. Once the data is backed up it can be returned to that user, once it's done the data is completely erased from the servers.

IV. SYSTEM DESIGN AND ARCHITECTURE

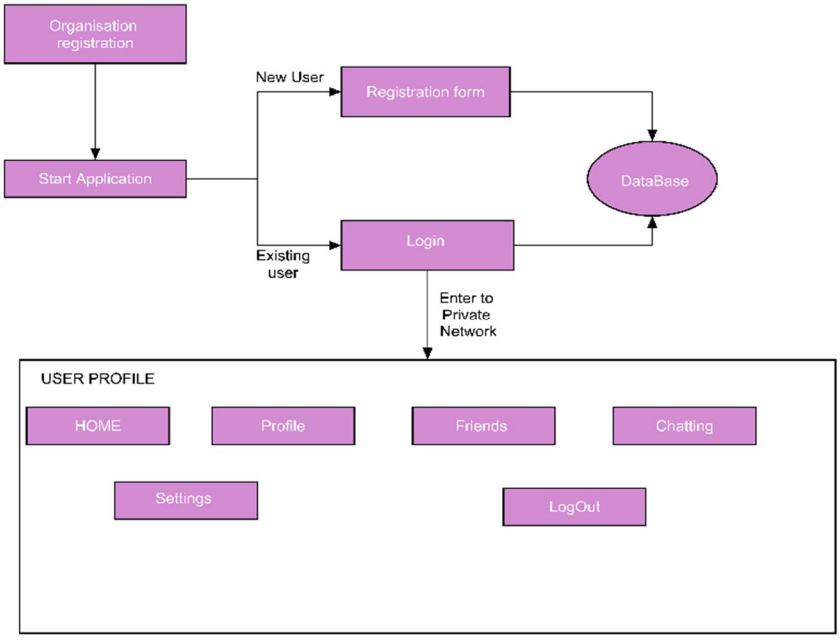


Figure 1: System Design and Architecture

The System/Architecture is Designed is such a way that a Social network/Broadcasting network can be made for Private Organization, where the organization provides the activation codes for registration only if the user belongs or a member of that organization, such that there are no fake Profiles exists.

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V. IMPLEMENTATION DETAILS OF MODULES

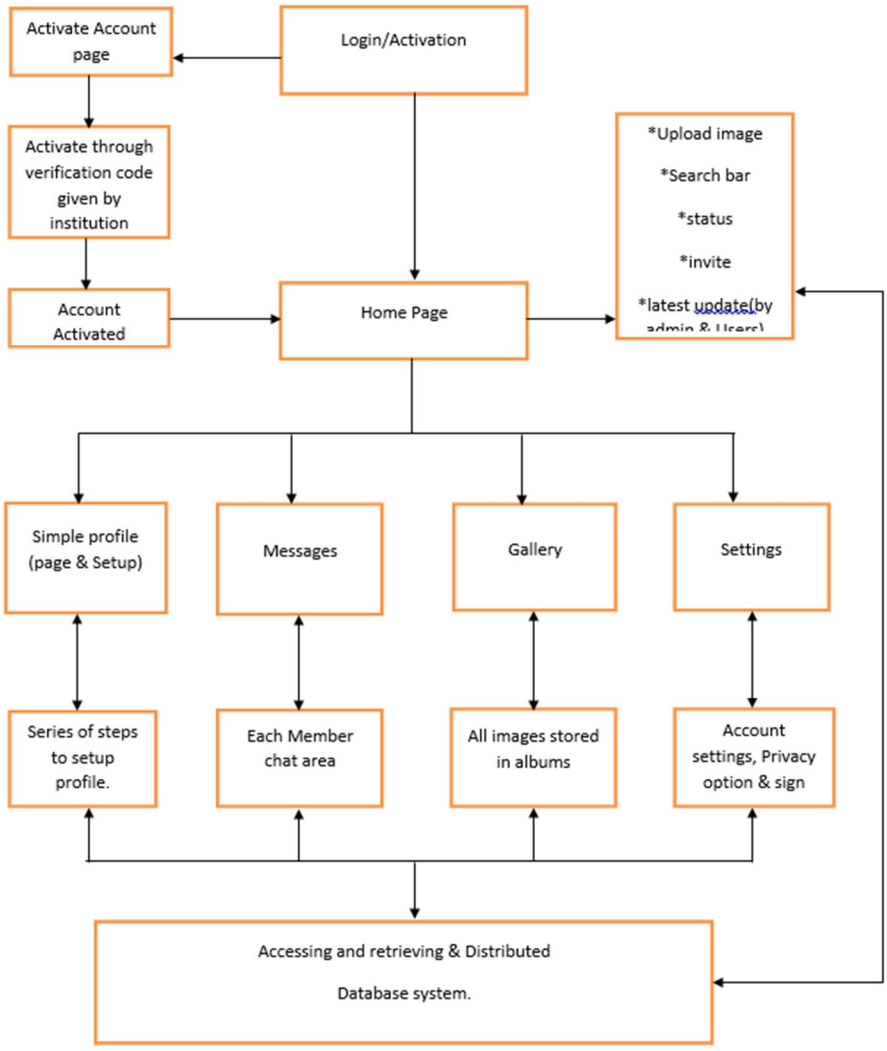


Figure 2: Module system of Private Social Network

1) *Login To:* Enabling user to create account is a part & parcel of all web based social networks. The login to bogan module offers several modifications to the standard propel login procedure enabling user to login either with username or their E-mail address & many more such login options that are found in typical social networking sites.
2) *Profile Setup:* Social Networking needs to provide users with options to create a profile. This profile setup extends the current profile & passes through a profile setup process where they are allowed to upload a profile picture & fill out profile fields provide by the core profile module.
3) *Messages:* We know that every social networks will exchange the information in the form of messages. All the messages that are sent to a particular user when he is offline then all the messages will be sent to the message module of particular member chat area.
4) *Gallery:* All the images & photos uploaded by the user will be saved under the gallery section (module). These files are stored for certain period of time only. So that to avoid threatening images.
5) *Setting:* In this module the user will be able to manage his profile. In this the user can edit his/her Username, password etc. along with sign out option.
6) *Logout:* Safely disconnecting from database and destroying the current user session.

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VI. RESULTS

1) Web-Based Application: The Software implementation target was to develop a web-based application which includes some basic functionalities like any other social networks, this web-based application is developed with the help of Adobe Dreamweaver CC 2017 version. This web-based application has login page for users, home page where users perform their activities with the available facilities, the application is connected to the MySQL database where all the records of users and their content shared on our Private Social Network.

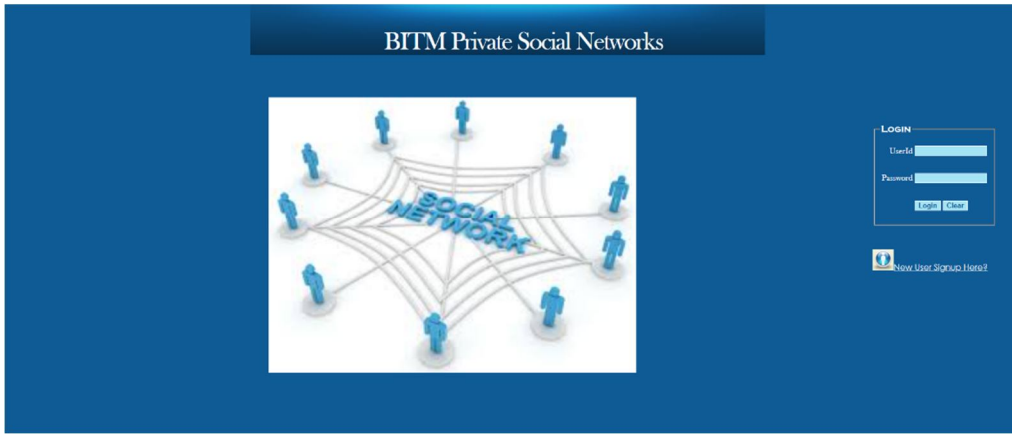


Figure 3: Login Page where only Authorized users will successfully login to the network



Figure 4: Activation page where the code will be given to only user if he/she belong to our Network

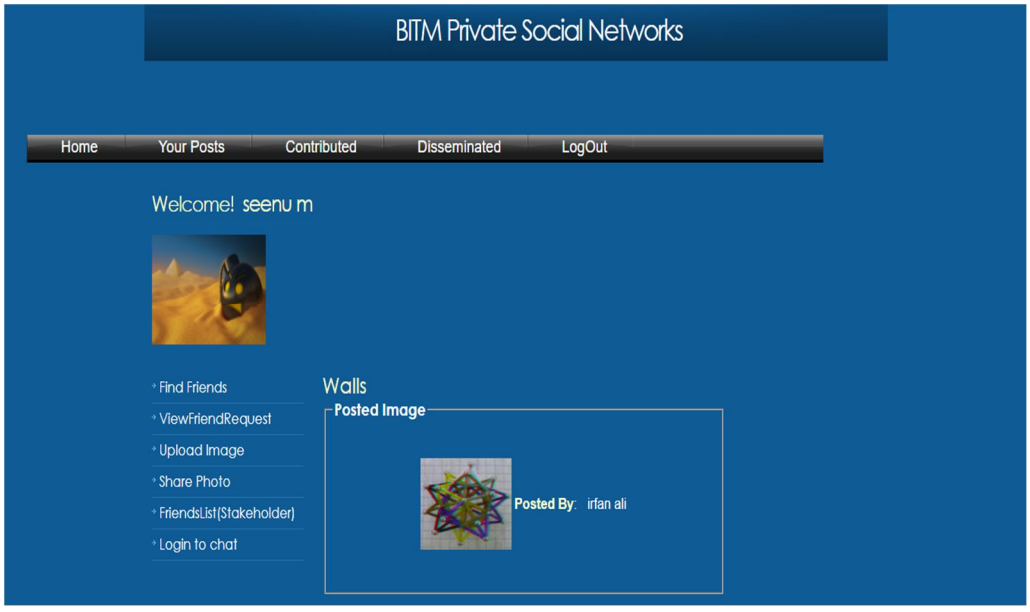


Figure 5: Home page for all the Users when they are registered or logged in

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Figure 6: Users basic activities in their own user profile of Private Social Network

VII. DATASETS

The dataset selection plays a very important role in our project. We have referred many institutional websites, social networking sites etc. To find the ideal website for our project based on the conditions for our project. For 3 different modules of our project we have used 3 different datasets. First dataset is the main dataset which has columns such as User details, password, Authentication code, User Id. This dataset is used for the main module fake profile detection. Second dataset is used for data broadcasting module such as images, posts. Third dataset is used to entering user data which will be later used for training the model.

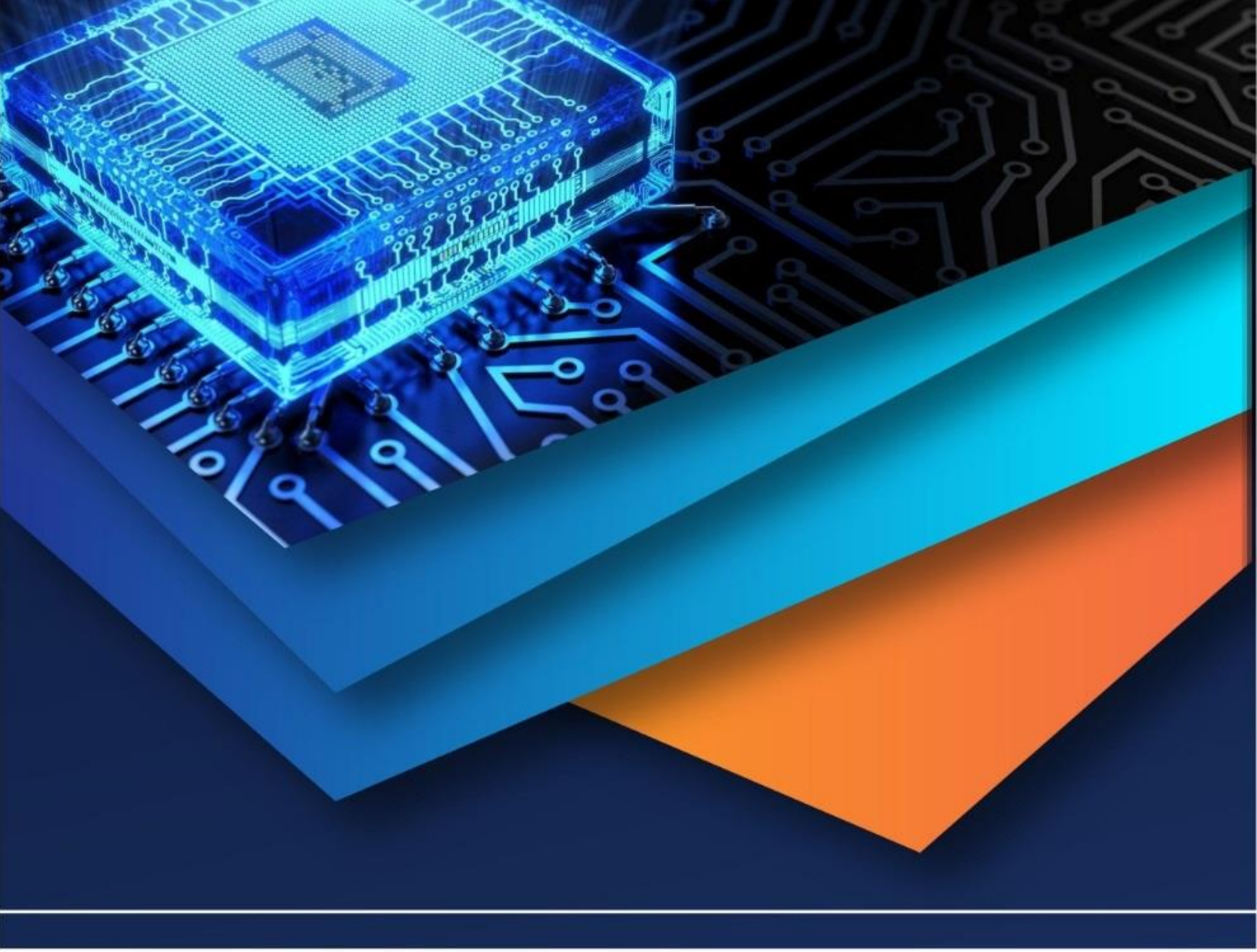
VIII. CONCLUSION

Social networking sites have become widely popular in the society, with this private social networks helps to develop institutions, schools, colleges. By adopting this no student will remain idle. There will some interaction with the teachers or friends. So that student can clear their doubts alternatively. This Network keeps the student in touch with the institutions, since a network belonging to an institution there are no chance of having fake profiles. Each uploads can be easily identified which user has uploaded it, by this fake news will not be broadcast.

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