

Implementation of Interactive and Simple Messaging In Educational Institution

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Abstract— Improving the communication technology that can be used to fulfill the student needs in education institutions, especially for clarifying the students doubts on academics. This work aims to produce the implementation of web based interactive and simple messaging in educational institution. The implementation of interactive and simple messaging are HTTP Protocol primarily based .That may be carried out on web platform. This application can facilitate the interaction between the students and faculty for clarifying the students' doubts in academics. Our application requires the Email-id and phone number at the time of registration for both faculty and students , so this can useful for sharing the any important information from education institution.

Index Terms—Interactive and Simple messaging, HTTP (Hyper Text Transfer Protocol), Group chatting.

I. INTRODUCTION

Interactive messaging (IM) becomes predominant in the world of verbal exchange for assisting practicality and pace in actual time chat which isn't always facilitated with the aid of e-mail[1]. Interaction through Interactive Messaging lasted 20 seconds in common, therefore making this conversation technology has grow to be an efficient method to get a rapid reply from a chat[3]. With the presence-realization science that can display whether a person is on-line or no longer, Interactive Messaging can improve the potential to respond turbo than email[4]. Moreover, when put next with a phone name, using Interactive Messaging is more cost effective and considered less intrusive.

Actualization and record sharing needs will increase in line with the wide variety of Interactive Messaging customers which already more than the range of electronic mail customers.

On-line collaboration by means of interactive messaging is likewise easier because the interplay takes place inside one working window (chat historical past can also be seen), and low-bandwidth due to the fact the earlier message just isn't hooked up as e-mail reply as normal. In keeping with the study conducted in Korea, the use of Interactive Messaging may toughen working relationship in a manufacturer[5]. The pattern of brief and efficient mass communiqué similar to Interactive Messaging can also be needed for an educational tuition. The position of verbal exchange is when the academic

college needs to give main expertise to students, faculty, and Staffs[5]. Knowledge similar to registration, cost, lectures, disaster, examination schedules, agenda exchange, and so on usually hampered when sent by means of electronic mail because of now not instantly legible and limited quota of electronic mail recipients. Additionally, the understanding via SMS can be having issues due to the fact that they most of the time change their mobile quantity then intricate to contact[6]. Interactive Messaging functions are expected to hold contact knowledge with the only account (consumer handiest has one account) although the users alternate their cell number and electronic mail.

State-of-the-art of this research is to design and improve the structure and Interactive Messaging application which can be utilized as a conversation instrument by academic institutions[3]. Conversation by way of Interactive Messaging has been used as an interplay device between students and lecturers external the class in some universities across the world[6]. Communiqué like this may set up a close relationship between scholars and lecturers, create a sense of interconnected between the pupils with the class and college, diminish pupils' anxiousness within the classification, shop time and scholars' effort, as good as add a first-rate surroundings inside the category. Consequently, the Interactive Messaging software can be used as an answer to set up communication inside of and external the category and be capable to support

lectures pursuits[7]. Prior researches had completed setting up instant messaging structure (some for academic college) to help best individual chat feature, without workforce chat feature to aid conversation from a lecturer to scholars in a class and collect scholars contact (mobile number or e mail) for urgency desires[7].

II. PROPOSED APPLICATION SYSTEM

The advanced IM utility will put into effect push notification technology that runs on internet platform. IDC have a look at shows that the cellular phone working manner marketplace percentage in the 2nd area of 2013 was ruled via Android at sixty nine.1%25. The allotted questionnaires to 122 respondents (scholars and instructors) with the useful resource of researcher confirmed that 50 5% of respondents are using Android 4.X, and 33% of respondents are utilising BlackBerry five-7. No longer only superior on Android platform, the software program will be additionally advanced on net platform that may be accessed at the same time as utilising the laptop / pc for the purpose that of seventy % of respondents desired to. Additionally, seventy eight% of respondents are using LINE, then BBM (70%), and WhatsApp (sixty six%). 87% of respondents are by using and huge the use of emoticon, then touch crew (76%), report attachment (seventy 4%), organization-chat (seventy two%), and broadcast message (sixty six%). These elements will grow to be a reference for IM application development. The final effects of this gain knowledge of is an IM software program software with institution chat. The expected development of this software is facilitating short, low price, and powerful communicate in instructional associations, among institutions, students, and lecturers.

III. APPLICATION DEVELOPMENT METHODOLOGY

The appliance improvement approach used on this research is Rational Unified technique (RUP) with four segment: inception, elaboration, development, and transition. Within the inception section, scope definition and series specs had been completed by manner of the usage of distributing questionnaire to pupils and faculties, and doing interview. In the 2d segment, very last necessities have been gathered and alertness method modified into once modelled with the resource of way of using Unified Modelling Language (UML), akin to use Case Diagram. The 0.33 section performed the development of non-good sized features similar to group chat. In this section additionally made implementation planning, finding out and computer virus fixing, and patron manual documents updating. In

the fourth phase, implementation of the procedure become executed then launched the application to the purchaser for early beta finding out. This Interactive Messaging software software includes two additives, the front-give up and over again-stop as described in Use Case Diagram. The front-stop side is utilized by the man or woman (includes students, lecturers, staffs, mom and dad, and organization's associated communities) and advanced on internet (Fig. 1)

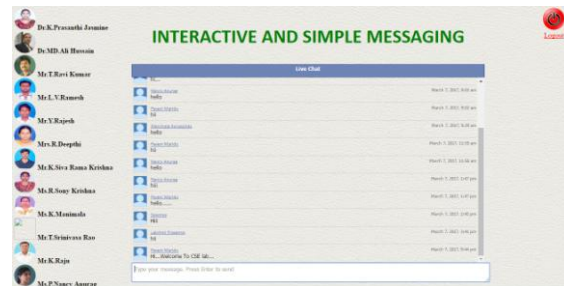


Fig 1. Web based Chatting Interface

IV. PROPOSED ARCHITECTURE MODEL

The net IM utility will probably be linked through HTTP protocol to a chat server that has been carried out with XAMPP. Web Server is used for implementation of internet utility and might communicate through HTTP protocol with chat server and MySQL database[12]. The person can interact with the chat utility by using coming into into the website online. The chat utility can communicates with web server via HTTP Request and HTTP Response. The net server can stores the user information and the chat logs in MySQL database.

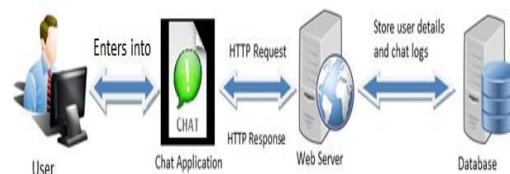


Fig 2. System Architecture Design

V. SYSTEM SPECIFICATIONS

The architecture design and again-end utility for chat and net server are implemented on a process with following specifications.

- Intel Core i5 Processor
- 500 GB tough drives
- 8 GB RAM
- web network connected
- windows Server 2012 R2 operating approach
- IIS variant 6.2 net server
- XAMPP 3.2.2 server

VI. EXPERIMENTAL RESULTS

We have developed the proposed paper in HTML technology with Java Script as Front-end GUI and PHP technology as Back-end.

Home Page

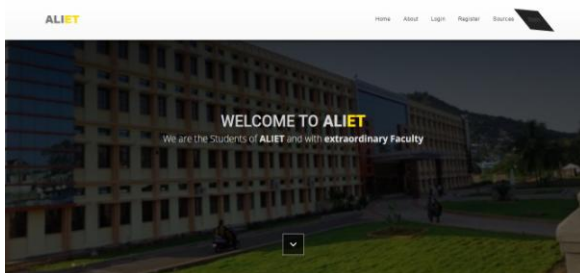


Fig 3: Home page

Welcome page



Fig 4: Welcome page

Chatting Interface

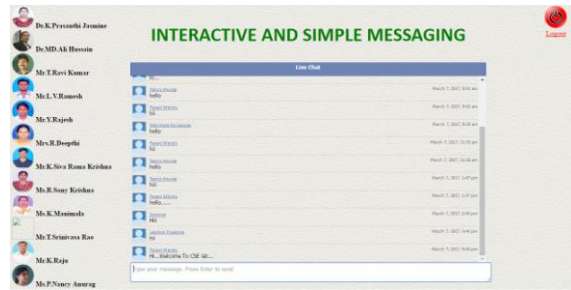


Fig 5: Chatting interface

VII. MODULES

In this Interactive messaging project we are implementing the following modules

- User module
- Admin module
- Chatting module

Functionalities of User Modules are:

- Fill Details - Enter the details like username and password of the user by that the server
- Authenticate the user-If the user is authenticated the data from web server is fetched and displays the chat modules

Functionalities of Admin Modules are:

- Maintains chat log and details of users in the web server.
- Updates the web server from time to time.
- Creates the User ids and passwords for the

Functionalities of Chatting Modules:

The chatting modules are classified into four types. They are

- Personal chatting
- Group chatting
- Broadcast Messages
- Scheduled Messages

a. Personal Chatting:

Personal chat is a private form of communication between different members on a platform. It is only seen and accessible by the users participating in the chat. In this module the student can communicate with one faculty.

b. Group Chatting:

Group chat is a public form of communication between different members on a platform. It can be accessible by the users participating in the chat. The group chat feature lets you talk with many Faculty. That means the many students are communicating with many faculty. For Example five faculties are dealing the same subject and the students having the doubts in that subject then the students

c. Broadcast Messages

The Broadcast message means the single sender send the same message to many receivers that means here the student can send the broadcast message to the many faculty who are dealing the same subject. Or a single faculty can send the broadcast message to many students who are registered in the application.

d. Scheduled Messages

Schedule an SMS so that it is sent at a future date with this application. Choose the date and then the users who are registered in this application and a message. On the selected date, the SMS will be automatically sent. The message will appear to come from your account.

VIII. CONCLUSION

Finally, we conclude that using this Interactive and Simple Messenger we can send messages to institutional members in easy manner. With interactive and simple messaging, you can converse with more than one faculty in a single chat box. It's like a public chat room for your group. Have as many as you want, and it's always free. Now, you can coordinate with all of your institutional members who are available in the group.

The system can be further enhanced and other functionalities can be added, In the present website we only have group chat. So in future we can create personal chat. In this website we didn't have any file attachment features and we can't send images, text files and video tutorials may be in future we can add those options too and we can also improve our website into

mobile app. So that we can improve our website.

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