

TIMELY MAILING SYSTEM

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Abstract: Electronic mail allows network users to send messages to each other by computerized equipment. E-mail system not only used to send text messages but can also send multimedia images, videos and voice messages of particular size. E-mail system works in a half duplex mode; it means that sending and receiving messages at a time. By using existing E-mail system user cannot schedule the mails; this is one of the drawbacks with the present E-mail system. The drawback with the present E-mail system can be overcome using the proposed system namely “Timely Mailing System”. By adopting Timely Mailing System user can send the mails at the scheduled time. The availability of information at the proper time has defined a new level of efficiency. The proposed system is designed in such a way that any user can interact with minimum knowledge of computer and E-mail system. The proposed system is implemented using .NET programming language.

Keywords E-mail, Electronic mail, Mail System, Mail.

I. INTRODUCTION

Electronic mail is commonly called as Email or E-mail. It is a method of exchanging digital messages across the internet or other computer networks. E-mail system are based on a store and forward model in which E-mail Server Computer Systems accept, forward, deliver and store messages on behalf of users, who only need to connect to the E-mail infrastructure, typically an E-mail server, with a network enabled device for the duration message submission or retrieval. E-mail is easy. The hardest part of Internet e-mail is getting connected to the Internet in the first place. E-mail is fast. No matter where you're sending your message, whether it's on the other side of town or on the other side of the planet, even the most rambling missive still takes only seconds or, at most, minutes to reach its destination.

The proposed system is designed using Visual studio 2010, SQL Server 2005, C# and ASP.Net. By the incorporation of these languages it provides an interactive interface to the user and the database language provides an efficient storage of data in the database and is aimed at developing easy sending option to current mailing system, which allows user to schedule the mail to be send hence one can save time in this system. The first procedure in this proposed system is user registration. Once user gets registered they can login to the server and can send mail for the present day or for the future by fixing the time and date. The Timely Mailing System has the inbox in which the user receives the mail and lists it in the inbox form, and it contains outbox in which the user has the mail of their own for whom they has sent. The user can check the contacts in their contacts list, and if necessary the user can add any number of contacts to their contacts list. If the password of the user has been locked out than user can re-change the password, this is done for the security purpose of the user. This proposed system has another facility of saving messages in drafts for the user requirements.

In this system the user has to register with the application and can login to send the mails. This application is similar to general E-mail systems with an additional operation to schedule the mails. To schedule the mails the user has to provide the valid date and time. The options with the proposed system are discussed below:

Registration:- This is the first step in the Timely Mailing System to send a mail. The user should register their details in the registration link, so that they can login in and send the mail. This process enables to confirm that the issue meets all the regulatory requirements.

Inbox:- An inbox is the main module that your incoming mail gets stored in. The user can download mails from the inbox.

Outbox:- An outbox is the electronic folder for outgoing e-mails or text messages. This module saves the messages that are sent by the user itself for their reference and documentation.

Drafts:- The draft module consists of the saved messages which are ready to be sent. This module sometimes used in emergency when we need to send the message. Some favorite messages can also be saved in this draft to have looked on it when the user is in need of it.

Address Book:- The address book has the address of the user contacts those of which have been saved in their contacts. It is very helpful to the user to switch on to their contacts and send the mail rather than typing his contacts details. This saves more time of the user. The address book is very useful in the emergency needs of the user; it can check the user contacts whenever there is in need of their contacts.

Compose mail:- The compose mail module has two segments in the Timely Mailing System; they are send now and send later. The send now module sends the mail at a present time to an address specified by the user. But in the send later module the future mail will be set for a particular time and date to an address specified by the user. The compose mail has the contents like TO address, subject and message. But in send later module the one more field “time and date” is given to set the time and date to send mail in future.

Groups:- The one more important module in the Timely Mailing System is making groups from the user contacts and sends mail. This module helps the user to send the messages to many persons at a time. This saves more time of the user. The user can add “N” number of user to make a group of their own. The user can give particular group name and group id for created group list of the user.

I. EXISTING MAIL SYSTEM

In the existing mail system if the user wants to send the mail for recipient at particular time and date they has to logon to the server at the particular date and time to send the mail. There is no option to set date and time to send mail in future. And one more drawback is there is no option to send a mail for the group of users at a time.

The following data flow diagram represents the existing system. The procedure follows the registration of the user it should be done before the user wants to send the mail or receive the mail. Then the sender sends the mail, server checks the user data like username, password, if the data is correct then the user has login or else user has to enter the data properly. After login user has to enter the message and address for sending the mail. Then the mail and address is sent to the server, through the server the mail is sent to the receiver. This is the present or the existing mail system used.

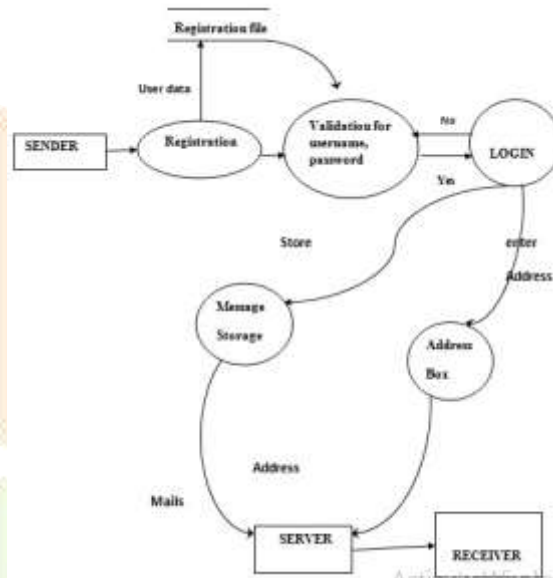


Fig.1: Data Flow Diagram For Existing System

II. PROPOSED SYSTEM

The world is becoming complex and busy day by day. Suppose user wish to send a mail to a particular address at morning session but he forgets to send it because of their busy schedule. Hence there arises a need to maintain an organized way of mailing system. The proposed system will be helpful and efficient for the busy scheduled users. Timely mailing System is an efficient and powerful tool to organize and control access to all the mailing system. Timeliness is the key component of effective E-mail system. Timely mailing system is designed in such way that messages can be maintained in an orderly manner with proper versioning and access rights.

Timely Mail System can be used to send E-mails with features to schedule the E-mails. This helps the user to schedule the mails and need not be online when scheduled the mails. The proposed system is designed in order to facilitate expanded use of mailing system to save time. This System needs to evaluate the kinds of mails to identify and update them to make it possible to use them in intended ways.

The proposed system can be adopted by any mailing applications. Timely Mailing System also allows user to save the mails in drafts before sending the mails also. Timely Mailing System also allows the user to create the group of their own to differentiate their contacts and send the same mail to the corresponding group at once which saves the user time. The user can give a particular group name and id for a group.

The purpose of the Timely mailing system is to serve several purpose of sending the mails all of which save the user time, the application will address typical problem in current mail system. It will incorporate efficient solution for the existing system problems based on feasibility and technology limitations. In the proposed system we are developing the Email system in which the user can set the date and time for the mail to be delivered. By using this system the user can save the time and they can send the mail at any time by assigning the date and time and server stores the mail and delivers to the recipient at the date and time assigned by the user.

III. SYSTEM DESIGN

In the proposed system the user register and then sends mail, before that checks the user data like password, username, then if the data is correct then login. After login send the message storage with the address and in this proposed system the message can be scheduled at what time the message should be sent and the same message can be sent to group members at a time.

In this system the message can send without scheduling also, after sending mail if any correction should be done in the scheduling the schedule is then reset for sending the mail and sent to the receiver.

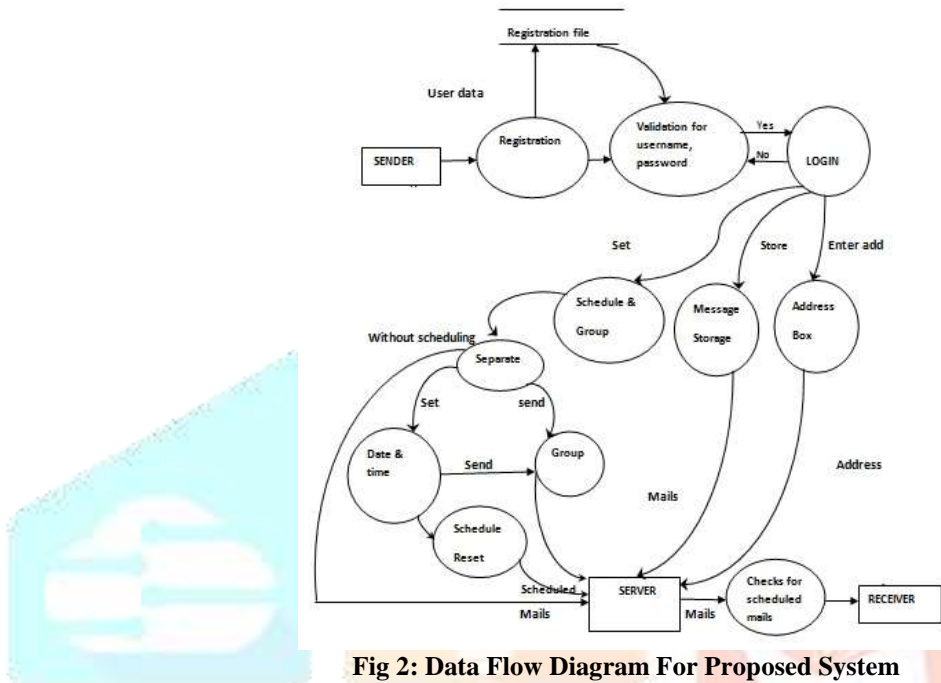


Fig 2: Data Flow Diagram For Proposed System

Registration Form: Before using this application, the user has to register. The registration form has the UI to fill some information which is needful while using this application. This page will be provided with different controls like textboxes to enter the information, drop down list to select the options, buttons to submit. Both server and client side validations are performed before submitting the information into the database.

Login Form: This page is used to login into the website and after a successful login the user will be navigated to the inbox form. Login form will be provided with two textboxes for entering username and password and a sign in button. On clicking the button the user will be checked for correct username and password from the database and error message will be displayed for improper username or password.

Compose Mail Form: In this page the users of the application can write mails to the other users of the same application, as the all services provide they can upload the files and the addresses are stored in their account. The user can send mails to more than one recipient. The mails are stored in the server database in the table called inbox. Details such as recipient name, sender name, message, subject, date and time of the mail are maintained. Another copy will be stored in a table called Outbox for the user convenience.

Inbox Form: This page is used to view all the messages came from other users of the application. An inbox is the main folder that your incoming mail gets stored in. Replies can be sent to the messages and unwanted messages can be deleted. The page will give all the details of the mail like sender name, subject, message, date and time. In this page the user can also search the mails from the particular contact/name.

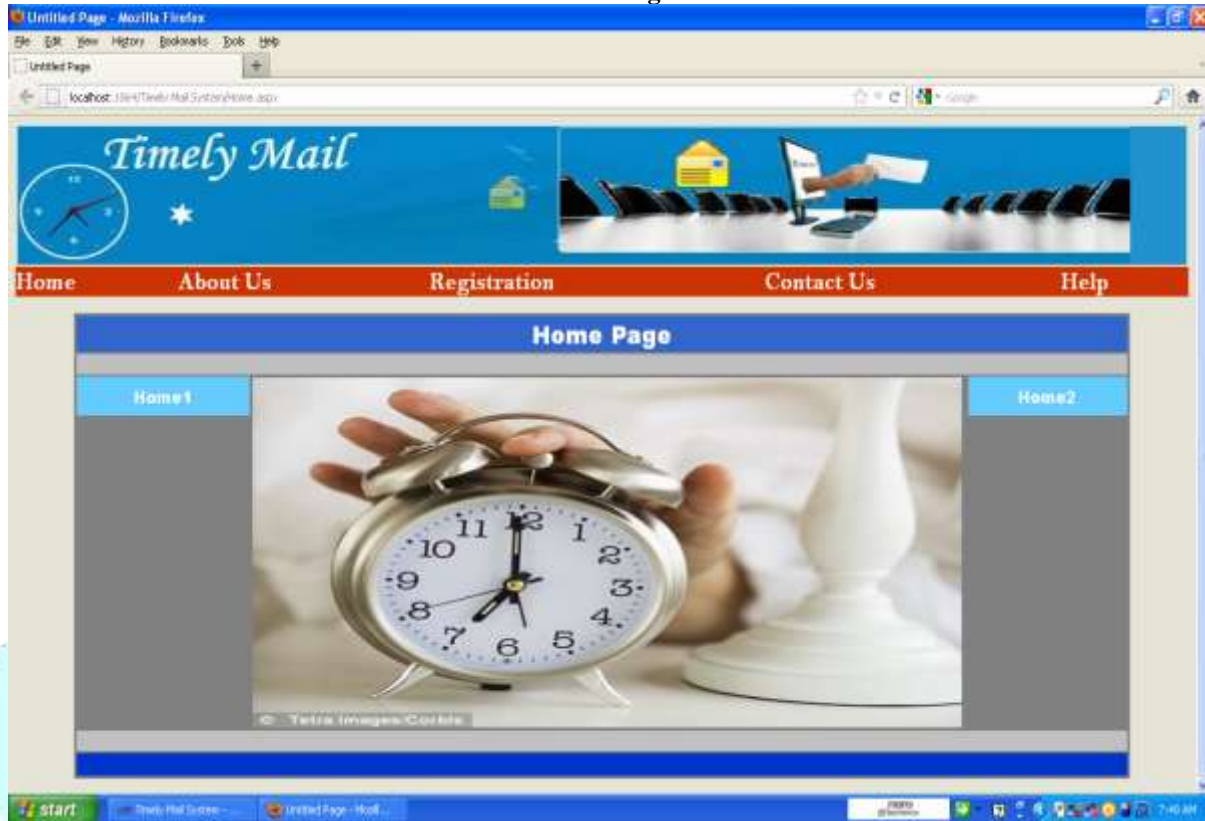
Outbox Form: Here the mails sent to others from the sender are displayed. The user can view and delete the messages if not needed. The details include the recipient's name, subject, message, date and time of the mail sent. These details will be stored in Outbox table. In this page the user can also search the mails from the particular contact/name.

Address Book Form: Here the user can store the contact address of other users of this application. Information like name, username, address and phone number can be stored. The user can edit or delete the stored address details. User can also create groups of their own so that he can send the mails to the whole group.

Change password form: Here the user can change their password if they felt their password is unsecured. By changing password user can feel the security. If the user enter invalid password it shows an error message, only after entering the correct password they can change their old password.

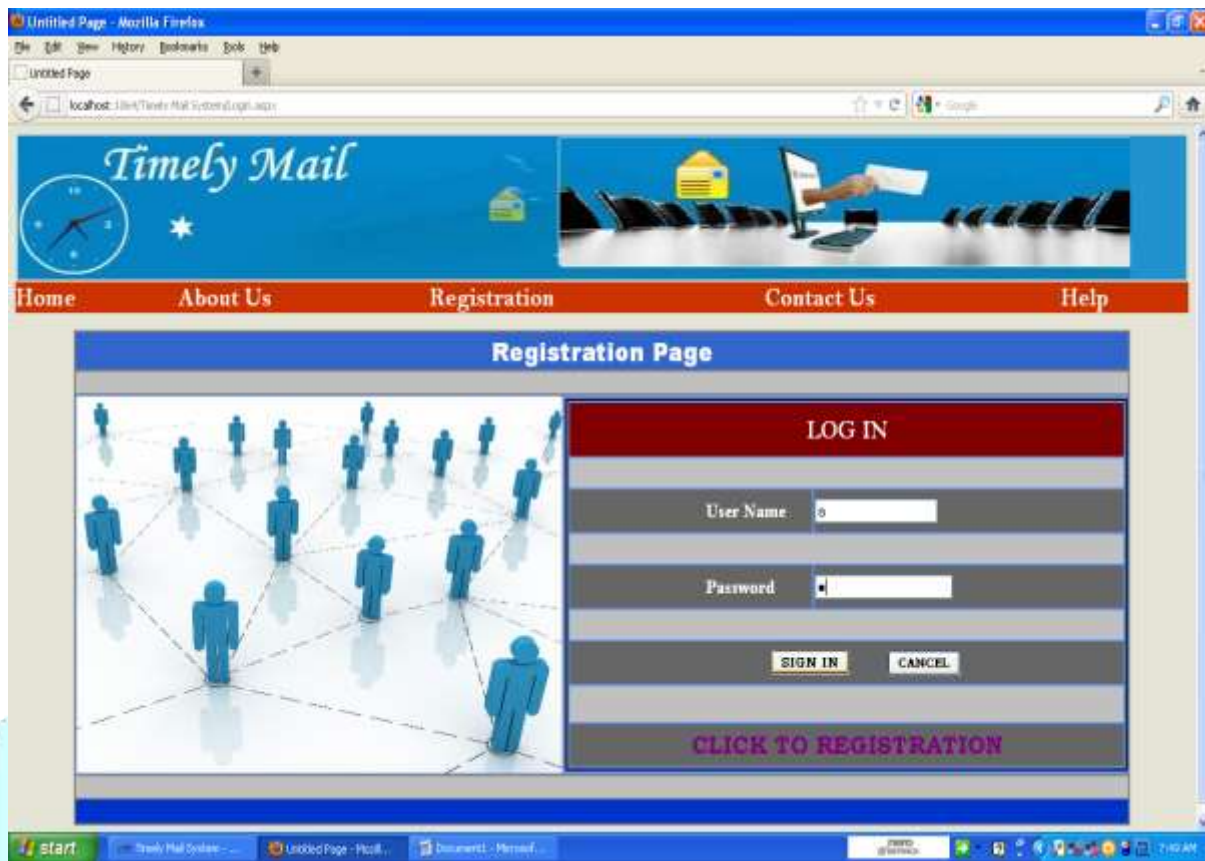
IV. RESULTS

Home Page

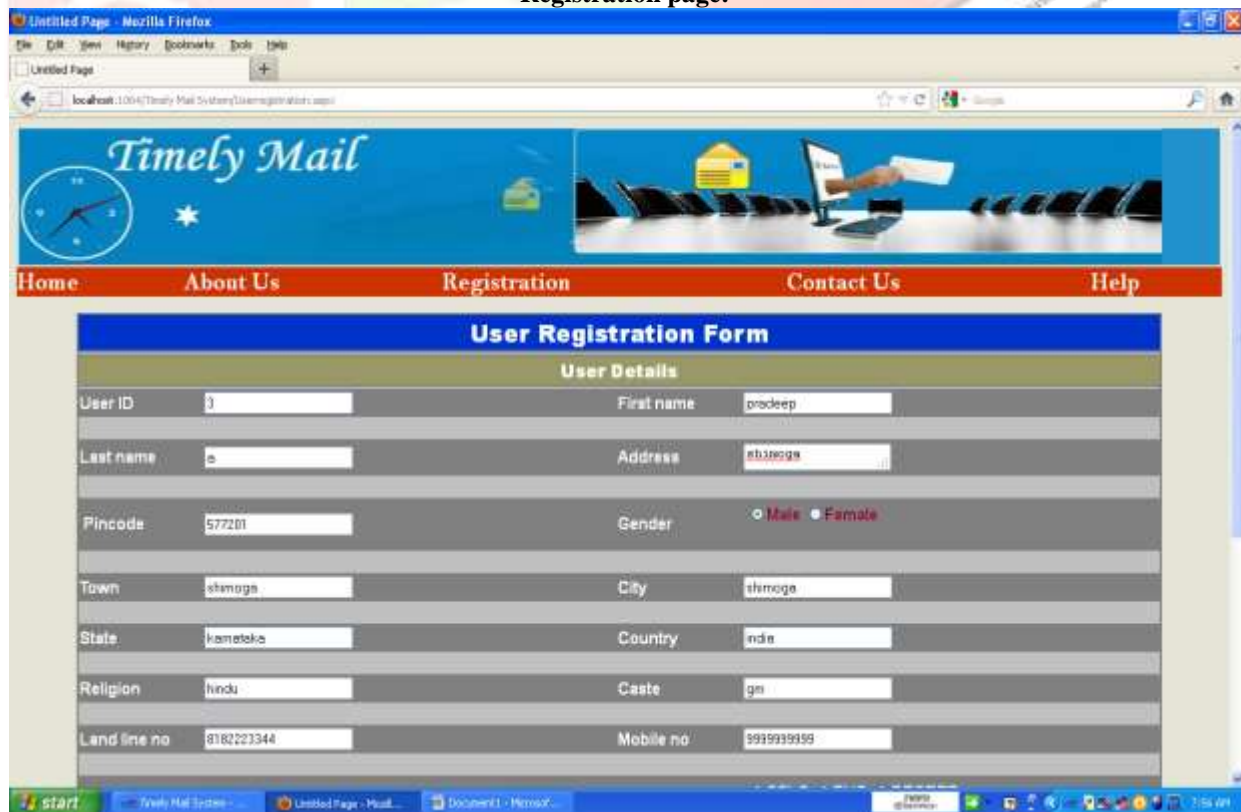


Login Page:

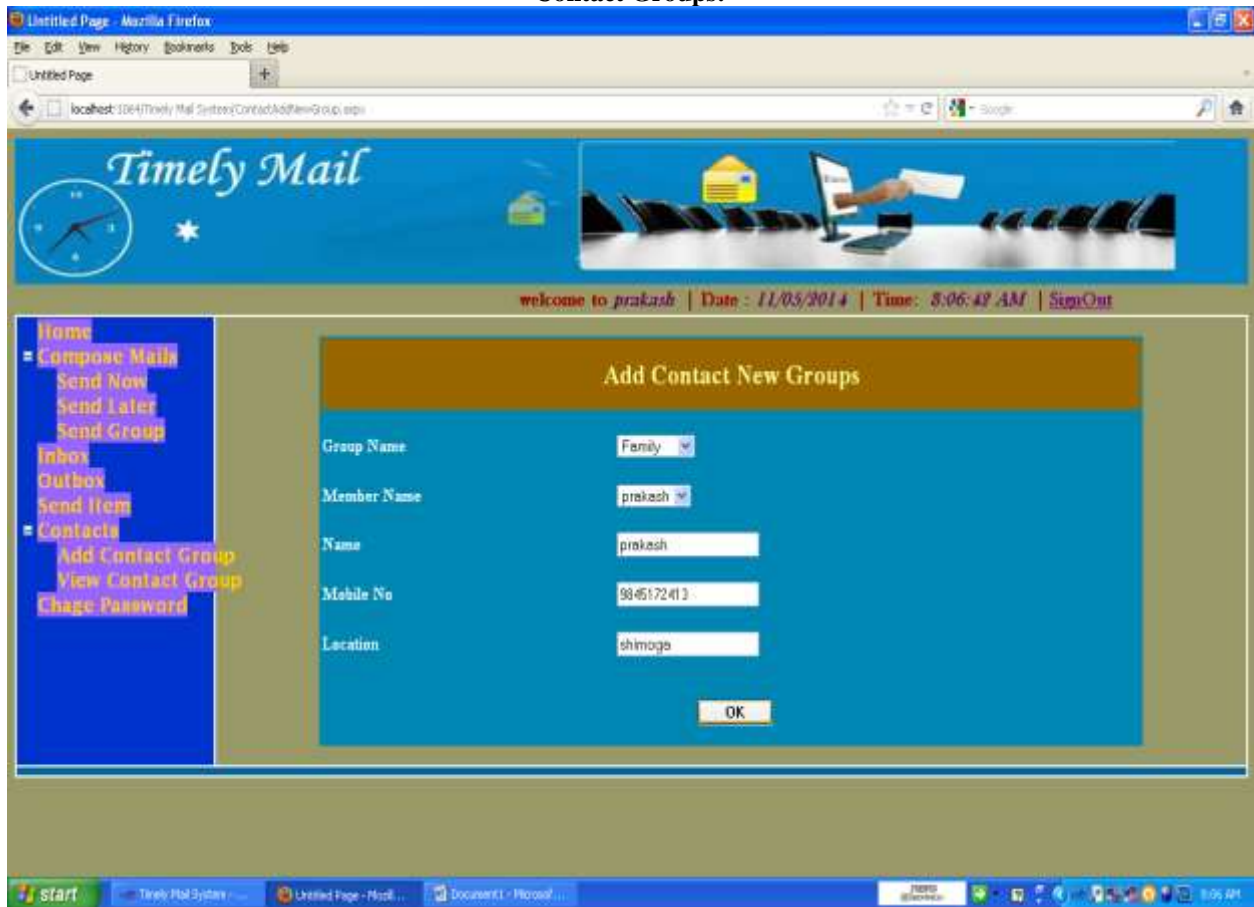




Registration page:



Contact Groups:



View Group:



The screenshot shows the 'View Group' interface in the Timely Mail application. The header includes the application name 'Timely Mail', a clock icon, and a welcome message: 'welcome to prakash | Date : 11/05/2014 | Time: 8:07:15 AM'. A left sidebar contains navigation options like Home, Compose Mail, Send Now, Send Later, Send Group, Inbox, Outbox, Send Item, Contacts, Add Contact Group, View Contact Group, and Change Password. The main content area is titled 'View Group' and features a dropdown menu set to 'Family'. Below this is a table with the following data:

groupname	membername	name	mobilen	location	username
Family	prakash	prakash	9845172413	shivmoga	prakash
Family	tunesh	a	1	a	prakash

The Windows taskbar at the bottom shows the start button, open applications (Timely Mail System, Untitled Page - Mozilla Firefox, Documents - Microsoft Office Word), system tray icons, and the time 8:07 AM.

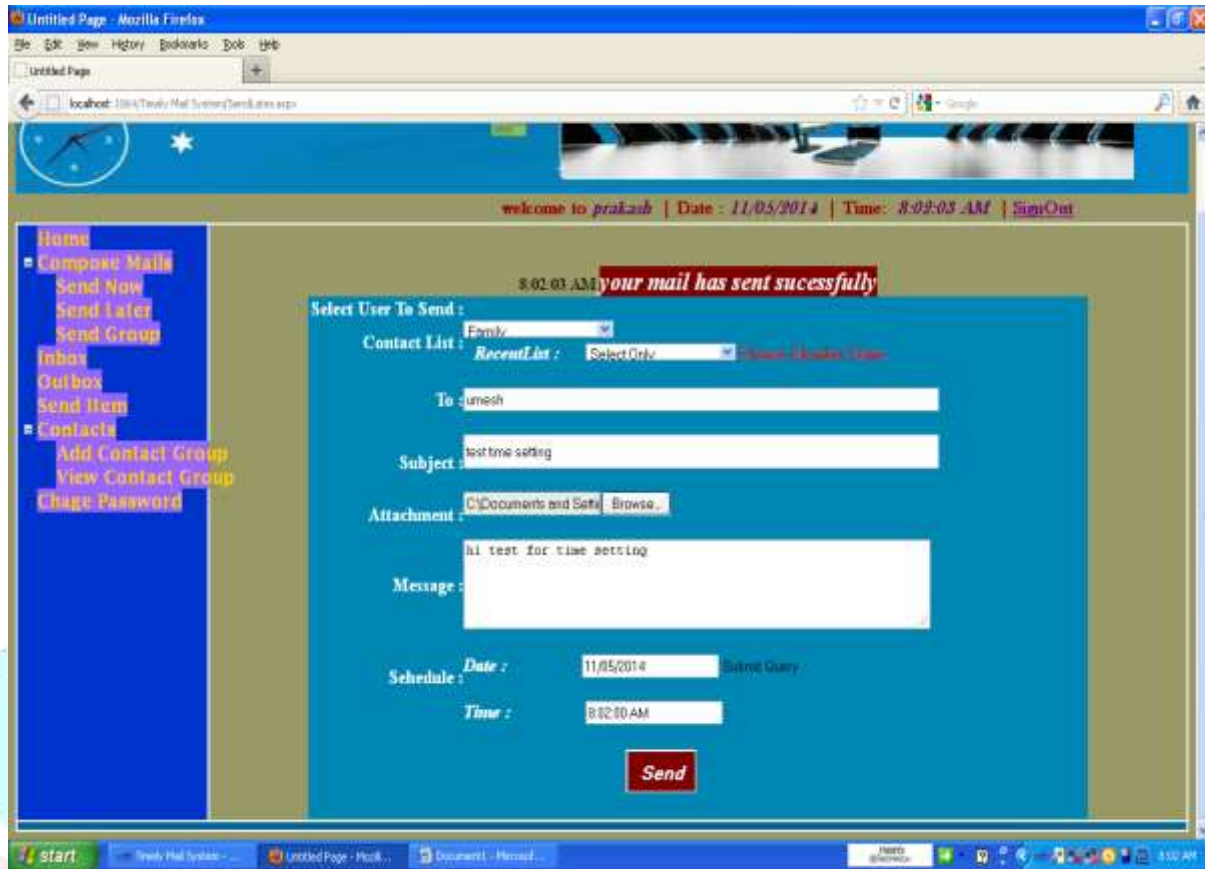
Send now:

The screenshot shows the 'Send now' interface in the Timely Mail application. The header is identical to the previous screenshot, but the time is 7:39:54 AM. The main content area is titled 'Select User To Send:' and contains the following form fields:

- Select User To Send:** A dropdown menu with 'Family' selected.
- Contact List:** A dropdown menu with 'tunesh' selected.
- To:** A text input field containing 'tunesh'.
- Subject:** A text input field containing 'test for send now'.
- Attachments:** A text input field containing 'C:\Documents and Settings\... Browse...'.
- Message:** A text area containing 'hi test for send now'.

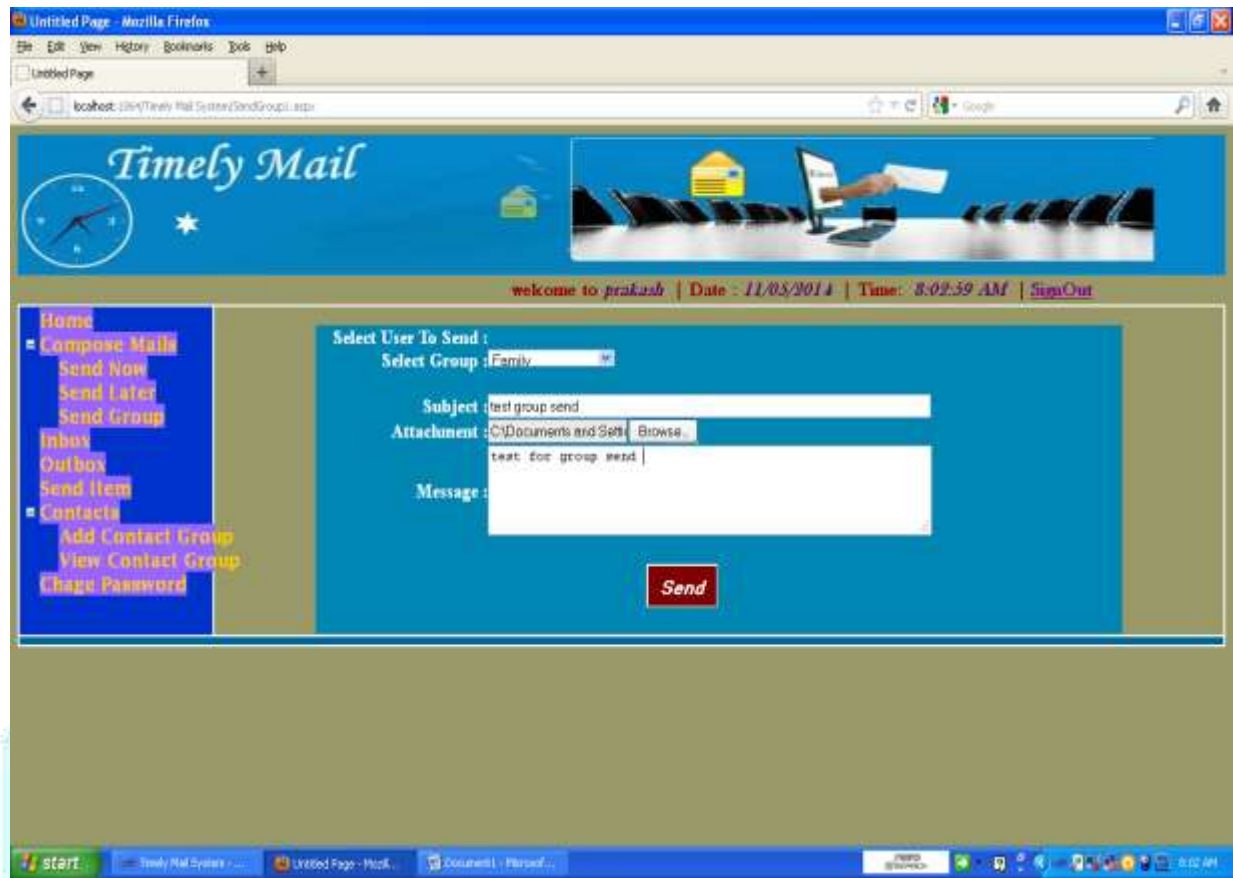
A red 'Send' button is located at the bottom of the form. The Windows taskbar at the bottom shows the time 7:39 AM.

Send Later:



Send Group:





Sent Item:



Inbox:

The screenshot displays the 'Timely Mail' web application interface. At the top, there is a navigation bar with a clock icon and the text 'welcome to umesh | Date : 11/05/2014 | Time: 8:09:43 AM | SignOut'. Below this is a sidebar menu with options like Home, Compose Mail, Send Now, Send Later, Send Group, Inbox, Outbox, Send Item, Contacts, Add Contact Group, View Contact Group, and Change Password. The main content area is titled 'In Box' and contains a table of messages. Below the table is a section titled 'After Modification' with input fields for 'To', 'Subject', and 'Message', and 'Delete' and 'Send' buttons.

	Sno	Message To	Subject	Attachment	Body
Select	10	umesh	test for send now	Winter.jpg	In test for send now
Select	12	umesh	test group send	Winter.jpg	test for group send
Select	9	umesh	a	Winter.jpg	aaaa
Select	8	umesh	admin	vb.net details.txt	aaaaaaaaaaaaaaaa
Select	2	umesh	test2	vb.net details.txt	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
Select	4	umesh	send group	vb.net details.txt	aaaaaaaaaaaaaaaa

After Modification

To :

Subject : Attachments

Message :

V. CONCLUSION

The main objective of the proposed system is to introduce the efficient e-mail system which is helpful in sending mail on scheduled date/time. Timely Mail System is a web application. This proposed system is all about providing an easy sending option to the current mail system; hence one can save the time. The drawbacks of the general mail system will overcome here.

VI. REFERENCES

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- [8] <http://www.asp.com>
- [9] <http://www.google.com>