A PROJECT REPORT

ON

Friend Book

By

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B.Tech CE Semester-IV
Subject: Software Project

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CERTIFICATE

This is to certify that the practical / term work carried out in the subject of

Software Project and recorded in this journal is the

bonafide work of

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Table of Content

1Introduction..……..……..…….……...4
1.1Project Details: Brief Introduction ……..... 4
1.2Technology and Tools Used.....5
2 Software Requirement Specifications ……..……..……..…..6
2.1 System Functional Requirements …….……..…….……6
3 Design…….……...…….……..……..….……..9
3.1 Use Case Diagram ……..……..…….…….……...9
3.2 Sequence Diagram……..…….…….....……10
3.3 Activity Diagram…….…….……..……12
3.4 Data Flow…. ……..……..…...……..... 13
3.5 Structure Chart …..…… 15
4 Implementation Details …….…….…...…16
4.1 Function Module…… ……16
5 Screen-shots of the System …….....……..……...17
6 Conclusion …….…...……20
7 Limitations and Future Extensions of System ……...…21
8 Bibliography …….……..……21

1Introduction

1.1**Brief Introduction**

"Friend Book" is an online chatting platform. The user can communicate with many other user in various geographical locations.

This type of system are also used in huge company for their employee to Communicate among the teammates and other teams also.

1.1 Tools/Technologies Used

Technologies:

- Django
- Django Rest Framework
- HTML
- Python
- DBsqlite

Tools

- Git
- Visual Studio Code

Platform

Local development server

2 Software Requirement Specifications

2.1 System Functional Requirements

R1 Authentication

R1.1 Registration

Description: If user is new, it gets register himself with Name, Username, email address and password.

Input: Valid e-mail address and strong password.

Output: Account created and redirected to next screen.

R1.2 Login

Description: User should login through registered e-mail id.

Input: Username and password

Output: Successfully login redirected to chat screen.

R2 Messaging

R2.1 Convey a message

Description: The registered person should be able to send and receive instant message to/from any user on his/her Friend's list given in user panel.

Input: Message to be send.

Output: Message is displayed on the right side on sender's chat box and left side on receiver's end.

R2.2 Deliver Attachments

Description: The person should be able to send or receive videos, documents, audios, images to another user.

Input: Videos, documents, audios, images

Output**:** Attachments is displayed on the right side on sender's chat box and left side on receiver's end.

R2.3 Group Message

Description: It allow the user to create group of peoples to talk together within the group and share the attachments.

Input: Videos, documents, audios, images

Output**:** Attachments is displayed on the right side on sender's chat box and left side on receiver's end.

R3 Manage Users

R3.1 Block User

Description: The admin can block the targeted user in case of any misbehavior, or abusive language.

R3.2 Search User

Description: User can search by username/name of other users.

Input: Name of user

Output**:** List of user found on screen

R3.3 Friend request

Description: User can send friend request after searching by clicking on username.It will be automatically accepted.

Input: Name of user or nothing

Output**:** User will be added to friend's list.

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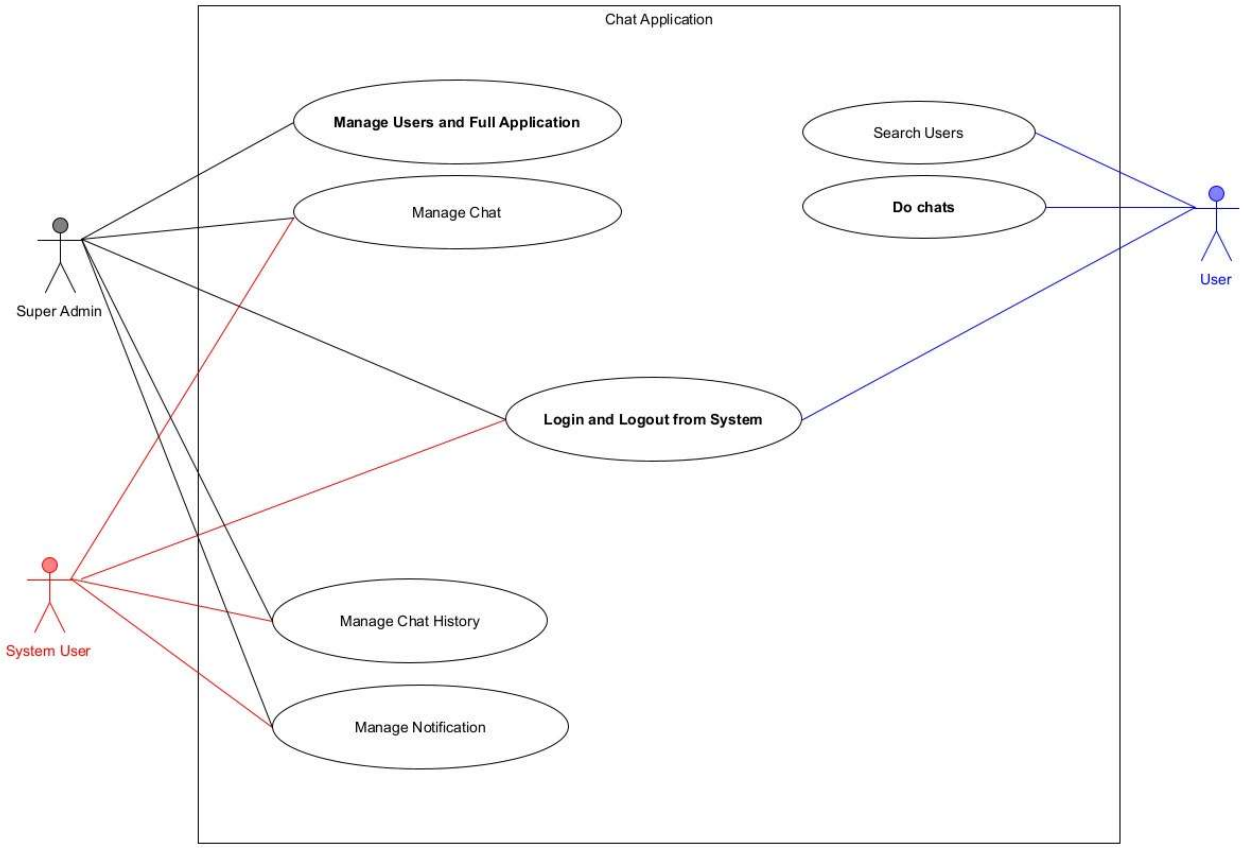
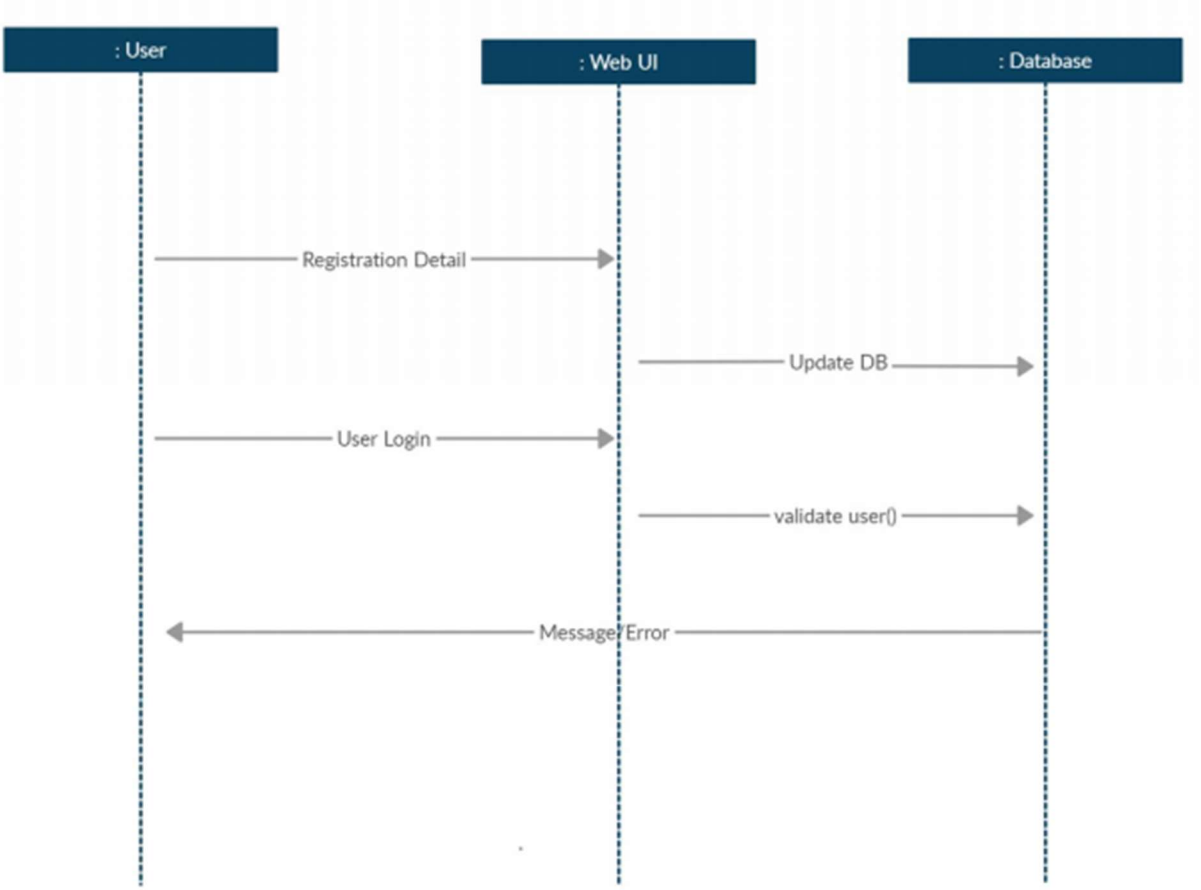
3. Design

3.1Use Case Diagram



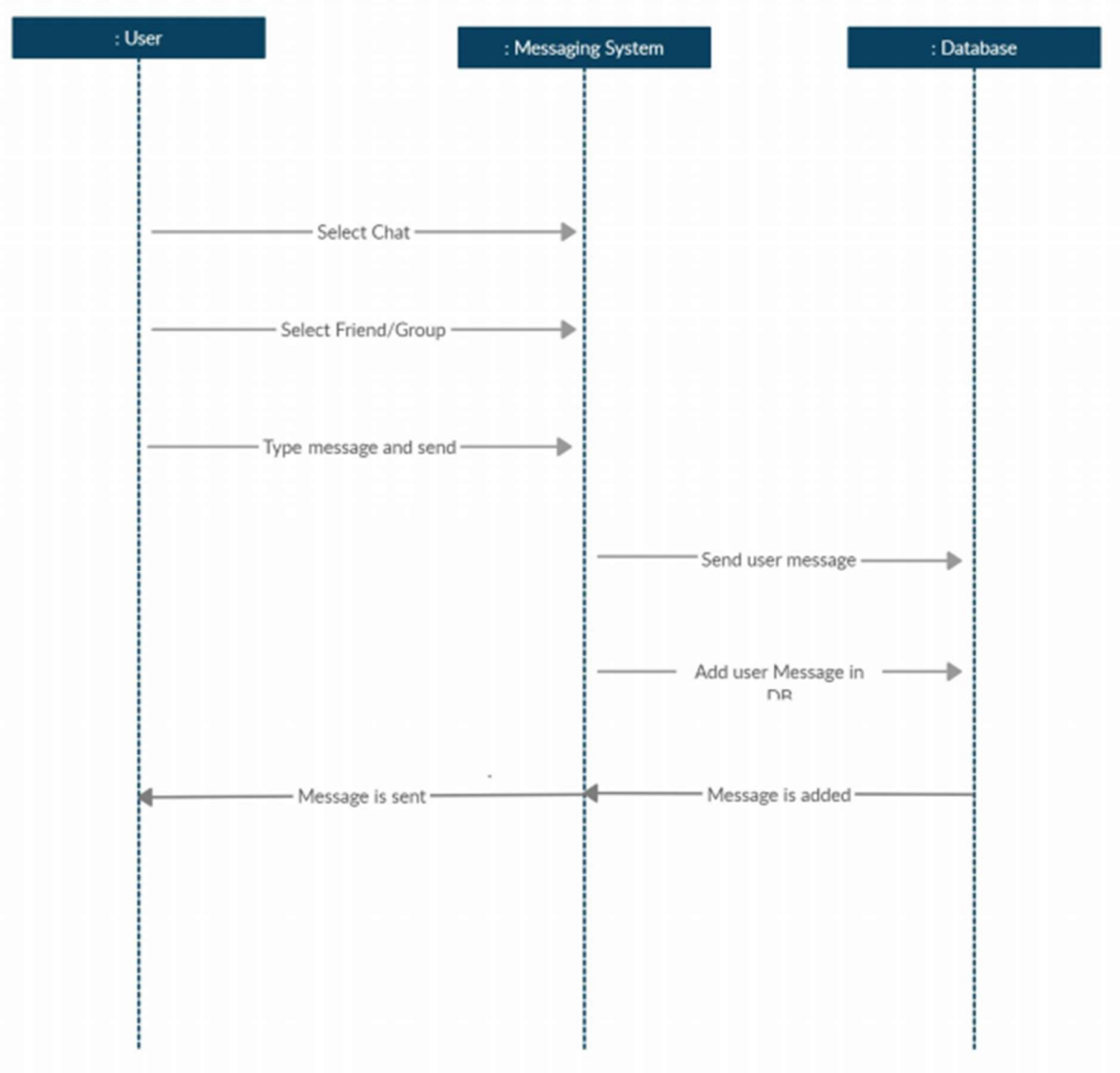
Use case diagram of users

3.2Sequence Diagram



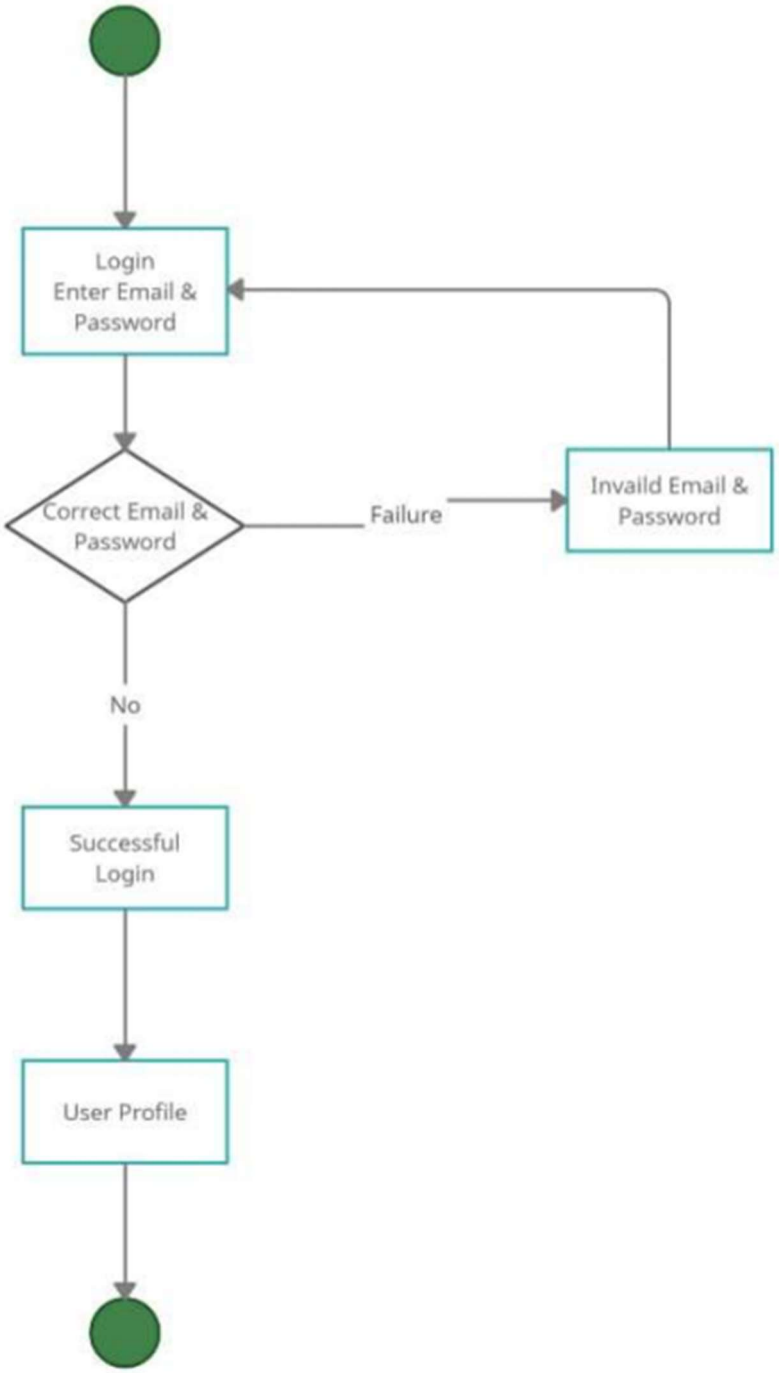
Sequence Diagram of Login/Signup

3.2Sequence Diagram



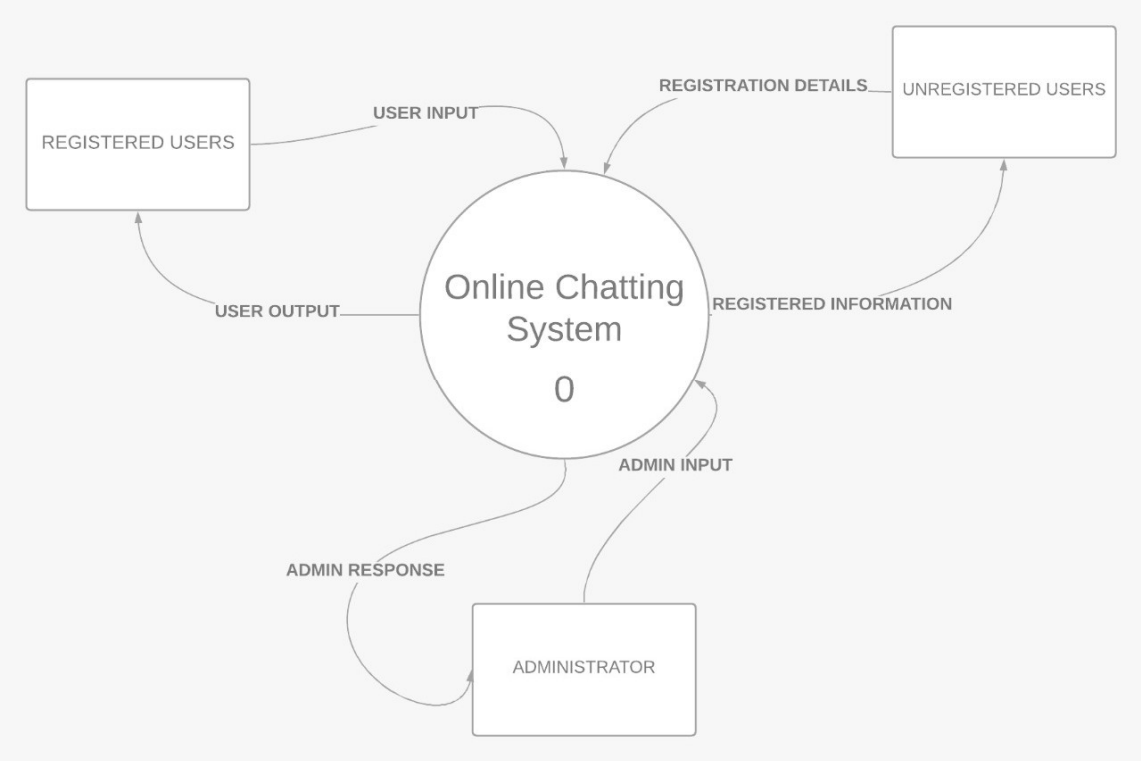
Sequence Diagram of Messaging

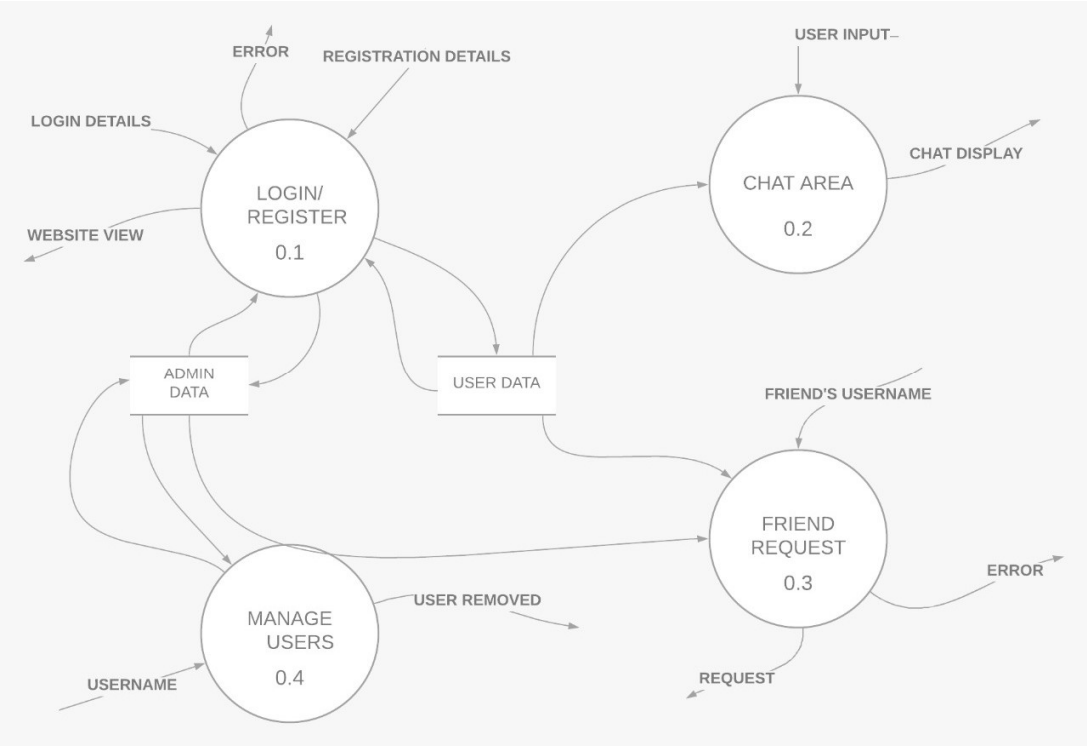
3.3ActivityDiagram



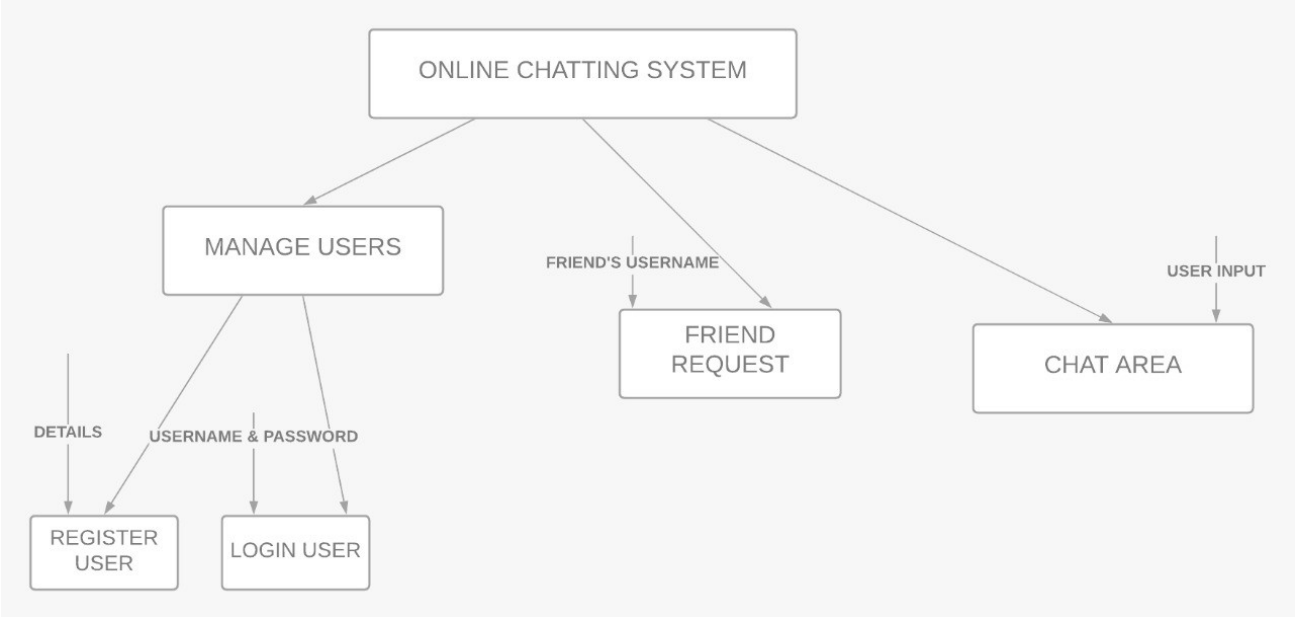
Activity Diagram of Login

3.4Data Flow


REGISTERED USERS
USER INPUT
REGISTRATION DETAILS
UNREGISTERED USERS
USER OUTPUT
Online Chatting System
0
REGISTERED INFORMATION
ADMIN INPUT
ADMIN RESPONSE
ADMINISTRATOR


ERROR
REGISTRATION DETAILS
USER INPUT
LOGIN DETAILS
CHAT DISPLAY
LOGIN/
REGISTER
0.1
CHAT AREA
0.2
WEBSITE VIEW
ADMIN
DATA
USER DATA
FRIEND'S USERNAME
FRIEND
REQUEST
0.3
ERROR
MANAGE
USERS
0.4
USER REMOVED
USERNAME
REQUEST

3.5 Structure Chart



4. Implementation Details

4.1 Description of Modules

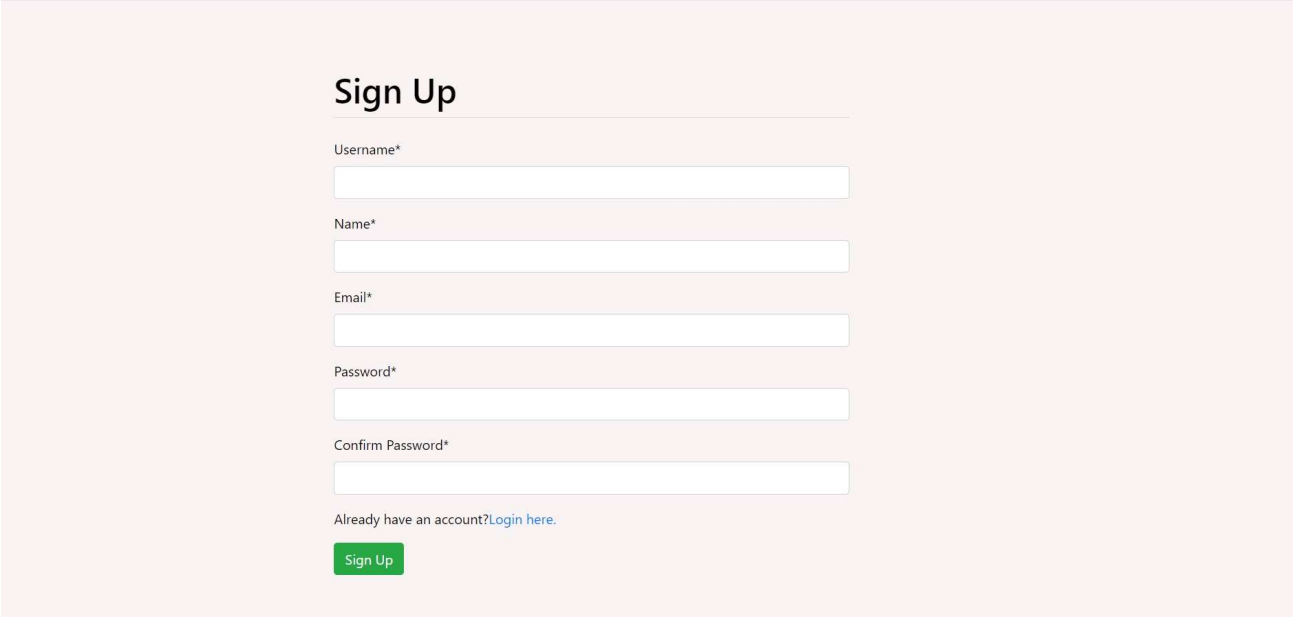
1. **Registration Module**

   Basic information of user taken by system and stored in database. When user is try to login in system , system authenticate to user and then user entered in system.

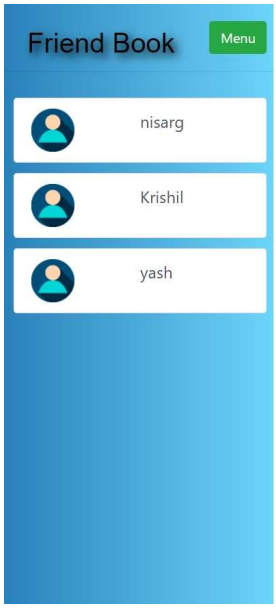
2. **Chat Module**

   When user want to chat with some friends in friend's list system allows user to chat and also add new friends my search feature.

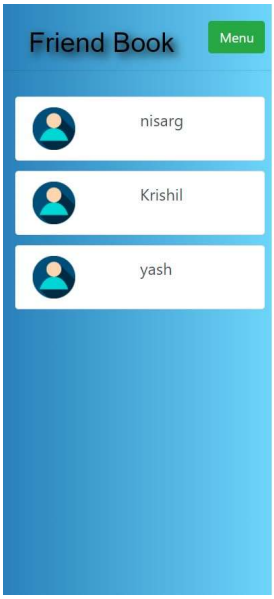
5 Screenshots



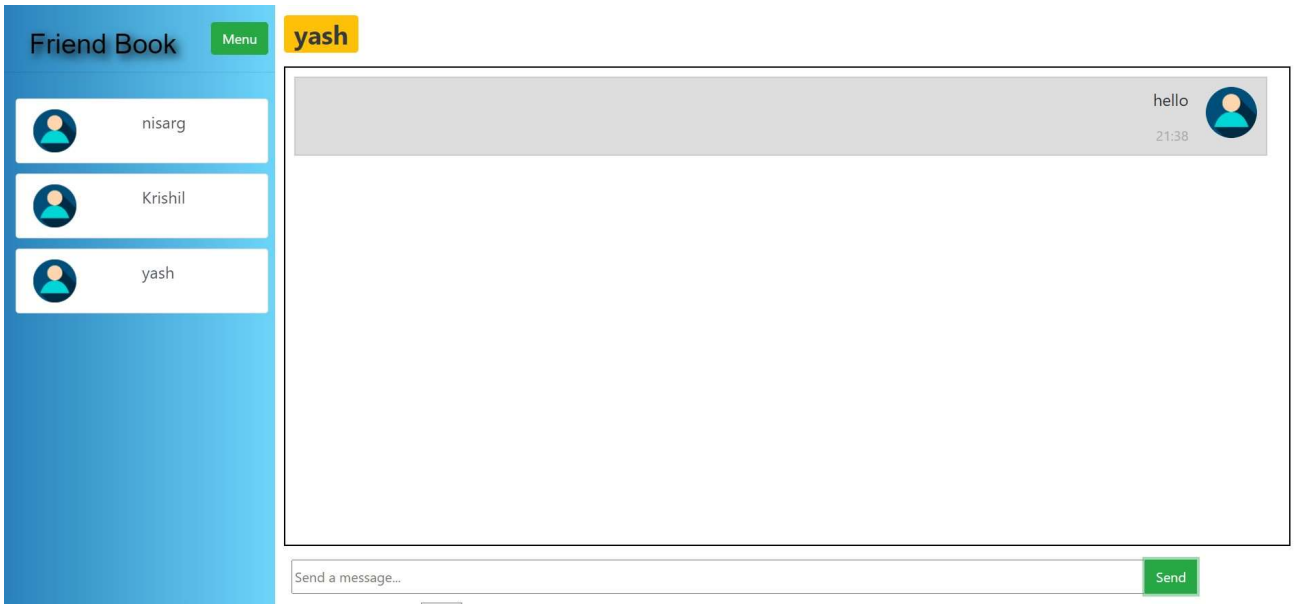
Signup-page



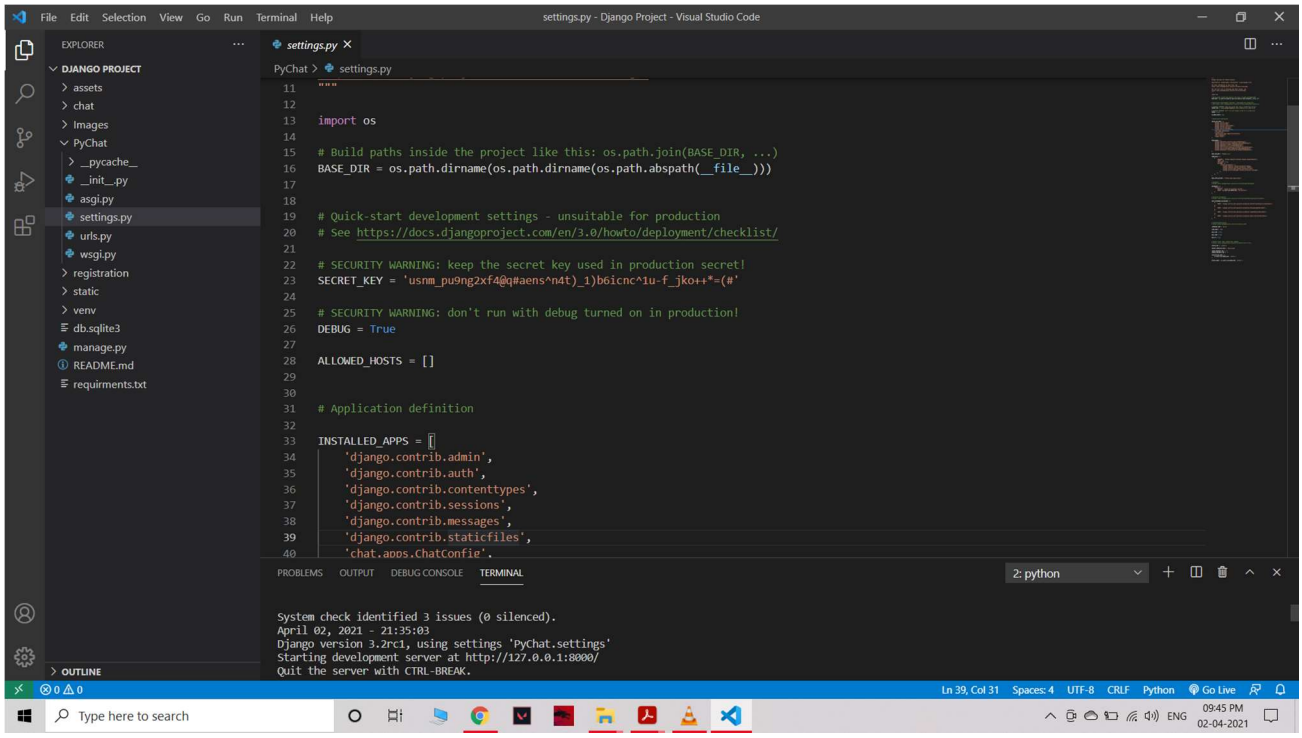
Main User Interface



Search For Friends



Messaging Area



TESTING LOCALHOST

6 Conclusion

Functionalities that are successfully implemented in the system are:

a. User registration containing all the necessary validation on field
b. Login
c. User authentication
d. Logout
e. Sending Message
f. Search a Friends

7 Limitations and Future Enhancements

We are able to implement the functionality model of the “Friend Book”. We aim to make this product ready to be used.

In future we can make user interface little bit better and fast ,we can add Social login, Add Group chat, User Profile Feature ,and remove some bugs mention above.

8 Reference / Bibliography

Following links and websites were referred during the development of this project:

https://stackoverflow.com/

https://djangoproject.com/

https://github.com/