RAIGANJ UNIVERSITY

LOOKNEARBY

A SOCIAL COMMUNICATION SYSTEM

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GUIDE MR. SUPRIYAN SEN

DECLARATION

I hearby declare that this thesis is completely my own work. Materials, which I used in my project found by websites, are mentioned by refference.

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CERTIFICATE

This is to certify that this project report entitled "looknearby (A Social Communication System)" by **BISWAJIT MALAKAR (Roll No – BCA190004)**, **SHACHIN DEBSHARMA (Roll no - BCA190043)**, submitted in partial fulfillment of the requirements for the degree of Bachelor of BCA in Department of CIS (Computer and Information Science) of the Raiganj University (RGU), Raiganj , 733134, West Bengal , India during the academic year 2019-2020, is a bona fide record of work carried out in satisfactory way.

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SIGNATURE OF GUIDE

ACKNOWLEDGEMENT

ABSTRACT

These recent years witnessed a substantial emergence of social networking sites (SNSs) which some even refer as an arising phenomenon. Besides the main function of communication of SNSs, the applications integrated within the SNSs are of great popularity and thus help gain more users.

The project "looknearby" is a Social Networking Website. The primary objective of project is to developing a web based online service, platform or site to focus on building and reflection of social relations among people. A looknearby is consists of network services that that will provide combination of good facilities of various social networking website and it also provide the facilities that are not present in others website to user over internet. Each process is converted into different module. Each module is connected to other and the data related to the software are stored in a single and centralized database.

When the system will implement the user can login themselves then after they can access various facilities such as message sharing and others as the requirement gathered by the developer.

In conclusion, evaluation of the created methodology is given. The thesis thoroughly evaluates in terms of philosophy, model, techniques and tools, scope, outputs, practice and product, based on which the future possible development is introduced.

INTRODUCTION

"looknearby (A Social Communication System)" is a project that can help people who are shy to communicate with surroundings, to give them a virtual place where he/she can communicate without being shy or hesitate.

"looknearby (A Social Communication System)" gives people functions like they can see who are the people present in his/her surrounding. Also they can send chat request to them and can see their details that they made public.

OBJECTIVE & SCOPE

- **Helps to make good surroundings**

  Using this web app an user can find people looking at their public details that helps an user to make his/her surrounding more better.

- **Easy to communicate**

  Using a single tap an user can see send a "chat request" or "Direct Message" to his/her surrounding user.

- **Making new friends**

  The next objective is to make new friends as per one's own taste. Any social networking must not be limited to liking just existing friends. But there must also be scopeof making new friends having desired tastes.

- **Saves time**

  The interface of the application is very easy so that anyone can access and it also helps to save user's time.

- **To know each other better**

  Using "looknearby" people can see other's profile details like profile picture, names, gender, relationship status etc. It will help to know each other better.

- **Security**

  Security is a major issue. The next objective of "looknearby" is to keep website free from fake accounts, hacks and other threats.

- **Other basic Functions**

  User can login, logout, change profile details and passwords, send locations etc.

SYSTEM CONFIGURATION

HARDWARE CONFIGURATION

- Processor : intel core i3 7th gen

- Memory : 4GB DDR4 RAM

- Hard Disk : 1TB SATA HDD

SOFTWARE CONFIGURATION

- Platform : Linux, Windows

- Database : MySQL

- Development Environment : Python, Django

PROJECT DESIGN

REGISTRATION PAGE

looknearby

Registration page

First name
```
e.g. Harry
```

Last name
```
e.g. Potter
```

Username
```
e.g. harrypotter
```

New Password
```
create a password
```

Confirm Password
```
confirm your password
```

register

hey! already have an account? then login yourself.

LOGIN PAGE

looknearby

Login page

Username:
```
Username
```

Password:
```
Password
```
Do not share your password with anyone!

login

hey! don't have an account? then register yourself.

HOME PAGE

EDIT PROFILE PAGE

OTHER'S DETAILS PAGE

looknearby   Home ⌂   Edit ✎   Logout ⇥

ⓘ Music Lover
ⓘ Avijit Malakar
ⓘ male
ⓘ single

👤+ BE FRIENDS

⋮

🗨 SEND DM

CHATTING PAGE

looknearby   Home ⌂   Edit ✎   Logout ⇥

biswajitmalakaravijitmalakar

Hello	avijitmalakar
Hey macha!	biswajitmalakar
What's up to you ?	biswajitmalakar
Everything is okay...	avijitmalakar
Doin' my study very well	avijitmalakar
Oh that's good keep doin'	biswajitmalakar
What about you ?	avijitmalakar
Oh everything is good	biswajitmalakar

◁ send

DATA FLOW DIAGRAM

Send Friend Request

Receive Friend Request

Admin

Look Nearby User

User

Social Media
System

Control
User's
Activity

Edit Profile

Send Message to Other

Receive Message From Other

User → Registration System → Login System
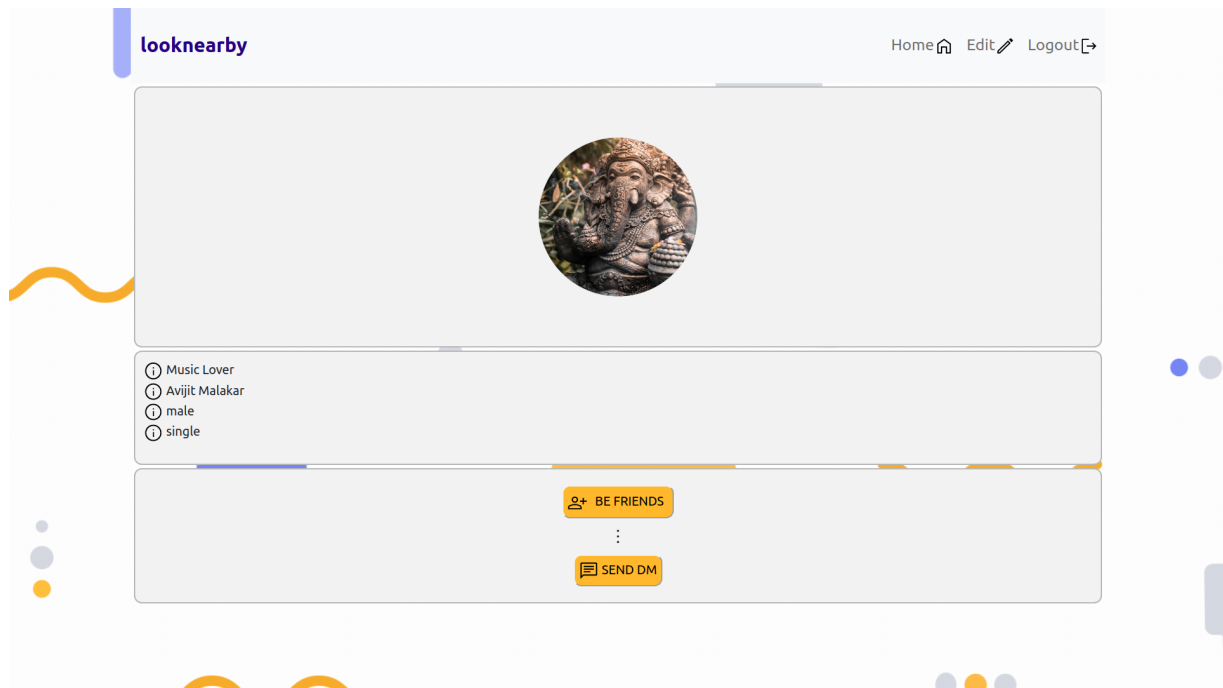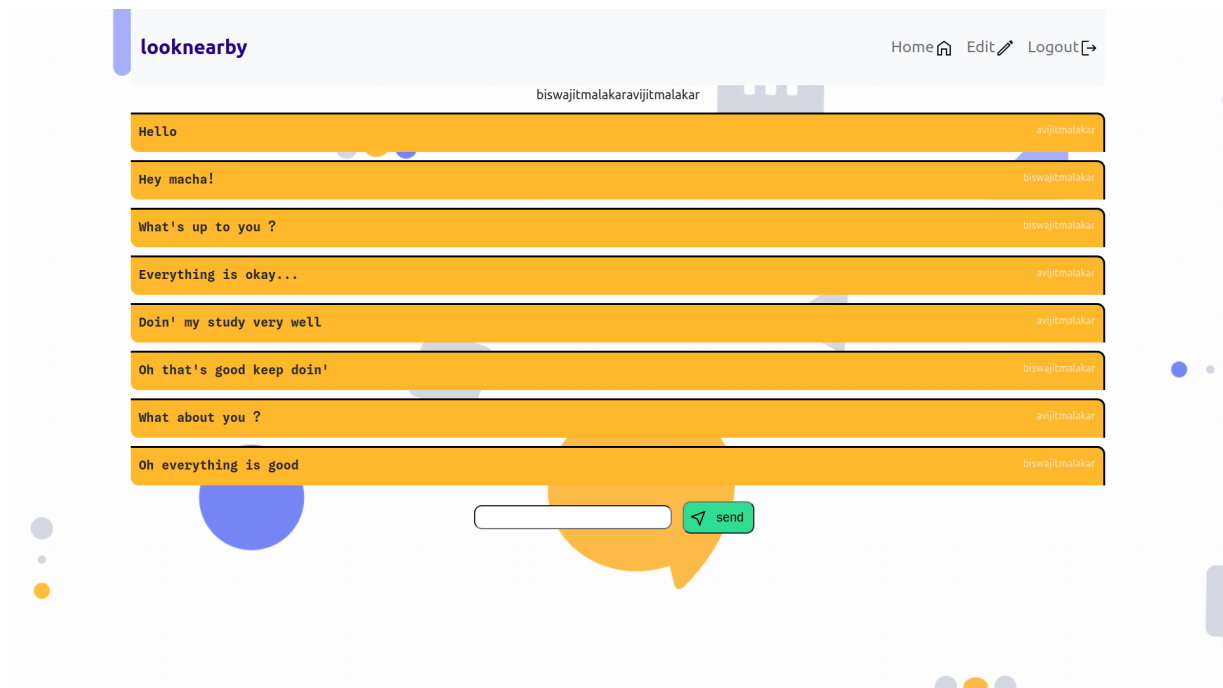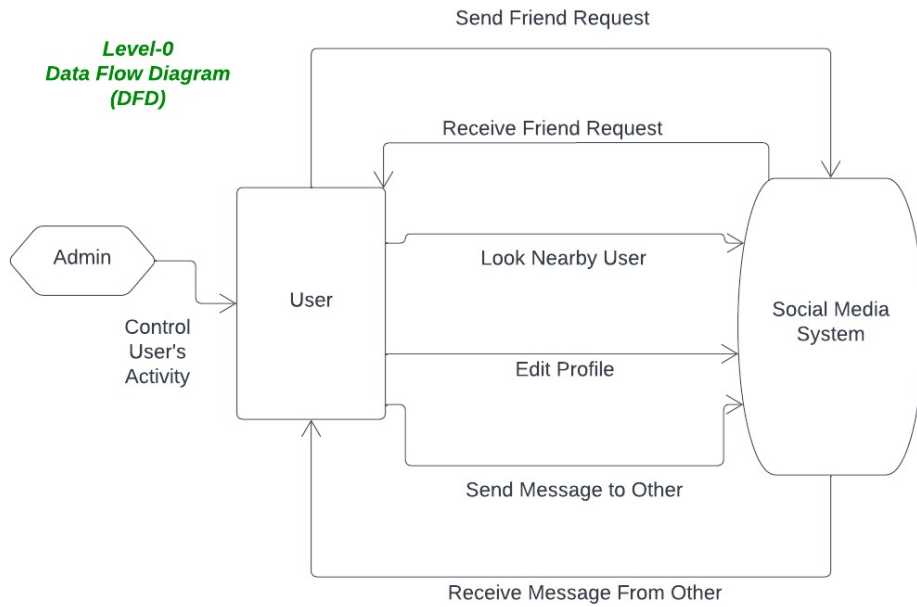
Level-1 Data Flow Diagram

Social Midea System

Get Friend Request

Edit Profile

Show nearby user ← Get Location

View Other Profile → Send Chat Request

Chat → Send Direct Message (DM)
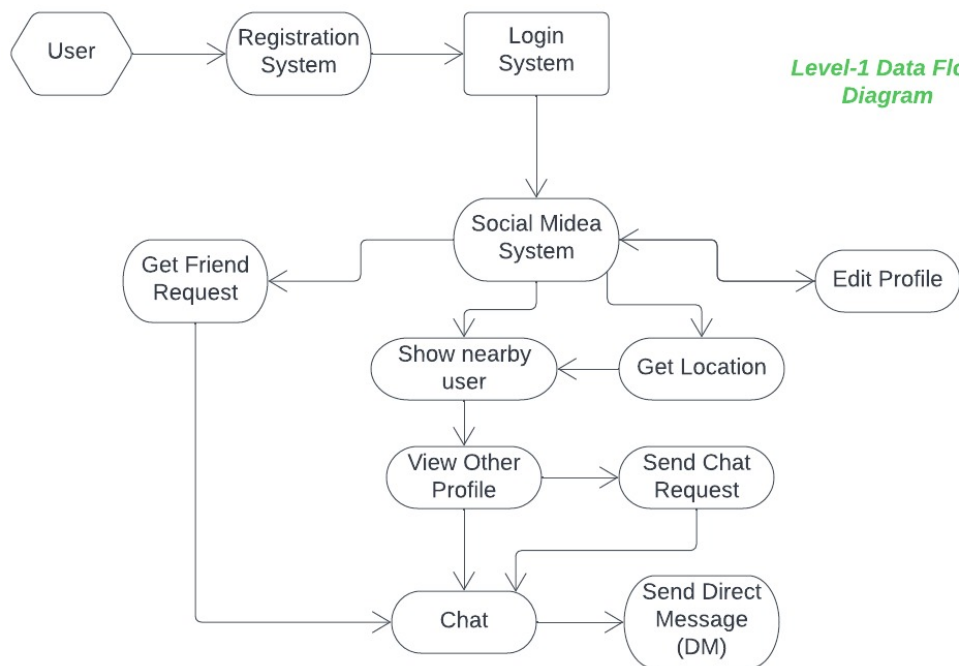
DATA DICTIONARY

Table Name : User

Field	Data Type	Null	Primary Key
Username	varchar	No	Yes
Password	varchar	No	No
First name	varchar	No	No
Last name	varchar	Yes	No
Email address	varchar	No	No
Last login	datetime	No	No
Date joined	datetime	No	No

Table Name : Profile

Field	Data Type	Null	Foreign Key
User		No	Yes
Profile picture	longblob	Yes	No
Bio	varchar	Yes	No
Gender	varchar	Yes	No
Relationship	varchar	Yes	No

Table Name : Location

Field	Data Type	Null	Foreign Key
User		No	Yes
Longitude	double	No	No
Latitude	double	No	No

Table Name : Friend

Field	Data Type	Null	Primary Key
Sender	varchar	No	No
Receiver	varchar	No	No
Is active	bool	No	No

Table Name : Room

Field	Data Type	Null	Primary Key
Name	varchar	No	Yes

Table Name : Message

Field	Data Type	Null	Primary Key
Value	varchar	Yes	No
Date	datetime	No	No
User	varchar	No	No
Room	varchar	No	Yes

ENTITY RELATIONSHIP MODEL
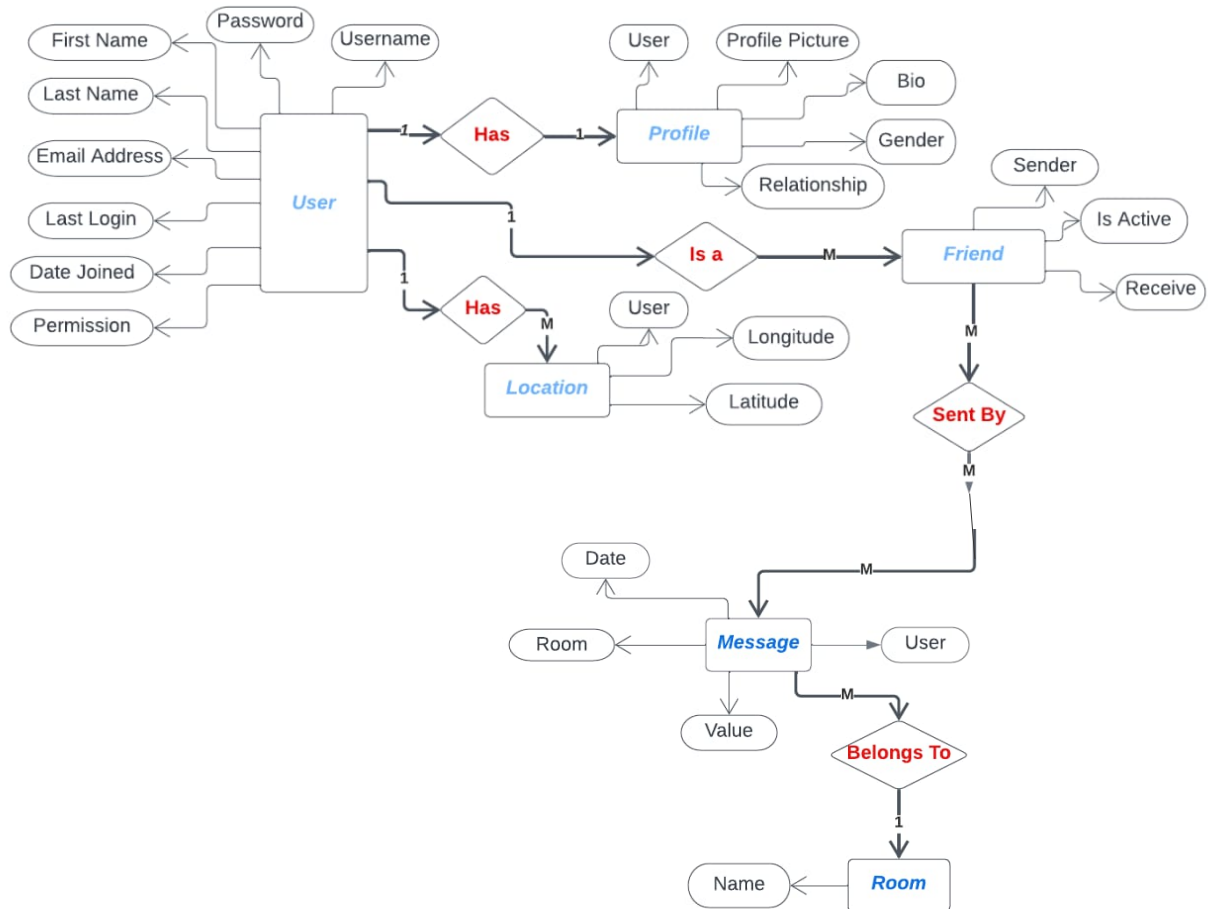
ADMINISTRATOR TASKS

The various operations performed by the administrator are :

- **<u>Add User</u>**

  The administrator can add any new user to the application.

- **<u>Edit info of an User</u>**

  The administrator allows to edit informations like – username, profile picture, name, locations etc about an existing user.

- **<u>Delete an User</u>**

  An administrator allows to delete or remove an existing user.

- **<u>Change friend details</u>**

  If an administrator wants then he/she can add or remove an user from friend list.

- **<u>Delete, show chats</u>**

  An administrator allows to show or delete anyone's chat.

FUTURE SCOPE

- **Enhance security**

  To avoid fake accounts, in future this project can use AI or other features to do so.

- **Enhance chat functions**

  In future the system can provide users to send a scrap messages, images, data files, locations etc to their friends. User can also maintain a scrap book whatever scraps he/she sent to users.

- **Enhance user's profile**

  In future the system can provides user an album where user can maintain their uploaded photos. Also can add links, banners to the profile for commercial usage.

- **Group chatting**

  In future this app can add group chatting feature to make people more connected.

- **Audio and video conferencing**

  Audio and video calling feature can be added to the app so that user can communicate more better and easily.

- **Friend list**

  An user can mainain a friend list that they can follow to see their friends and can update the list as per their need.

SECURITY

The software uses User Login program. So no unauthorized access to the data is possible. It checks the user input on the Login Window i.e: Username and Password and matches it with the saved data in the database. If the Username and Password are matched with the same on the database, only then it loads the entire program by establishing connection with the MySQL Server and launches the main window of the program. MySQL Database is used in the software, which offers many security features like -

Connection Encryption, Users & Privileges, Cryptographic Function

LIMITATIONS

- The application is a web based application, so user may need to do some extra steps to open and use the application.

- This application does not support online password recovery. If the Admin forgets the Login Details i.e. Username & Password, there is no way he can recover his login credentials. The Admin will have to contact the developer for new username and password.

BIBLIOGRAPHY

- Python

- Django

- MySQL

- Git

- HTML

- CSS

- JavaScript

- AJAX

- Websites

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  https://www.google.com/

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  https://docs.python.org/3/

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