

# SOFTWARE ENGINEERING PROJECT

MAKING AN ANDROID SOFTWARE TO DO BLUETOOTH CHAT APP

# GROUP

## Group Name



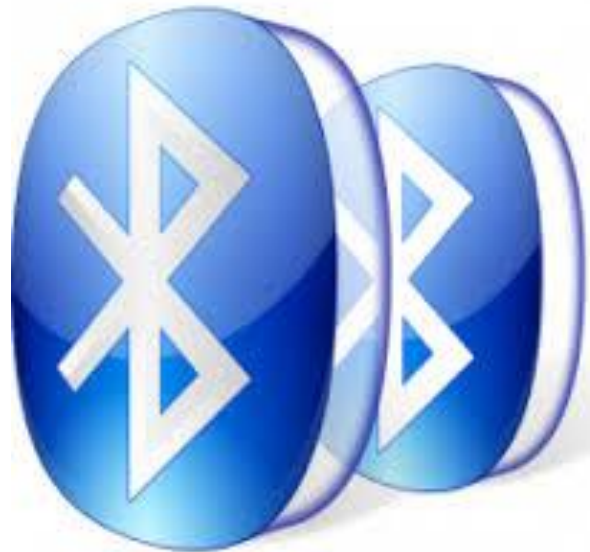
VAI BROTHERS

## Group Members

- ◆ MD Toushif Pramanik
- ◆ MD Sajedul Islam
- ◆ Hosne Ara
- ◆ Mahbub Al Hossain
- ◆ Shah MD Simran Billah

# OUR PROJECT NAME

😊 BLUETOOTH CHAT APP



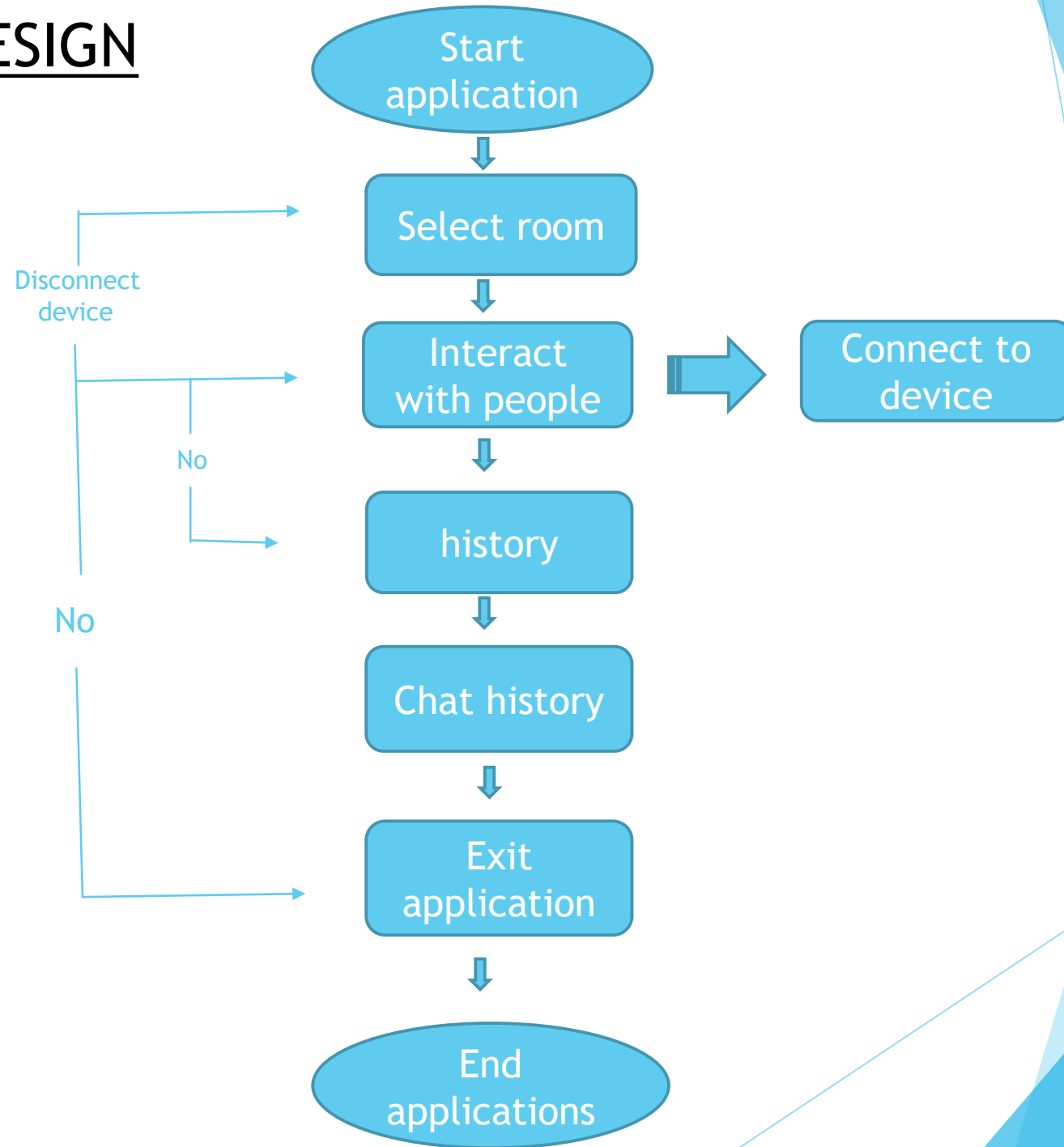
## REQUIREMENTS SUMMARIZATION

- ➔ Our software is help to people to communicate with a given range without internet or cellular charge .
- ➔ Our target customer currently are students who can use his program for free even if they don't have the facility of internet .
- ➔ Our application can be shared by Bluetooth who hasn't downloaded the application before.

## PROCESS OF BLUETOOTH CHAT APPLICATION

- i. It first checks whether the Bluetooth of the devices is in ON/OFF mode.
- ii. If the Bluetooth of the devices is in OFF mode then it makes the request to enable the Bluetooth.
- iii. Perform scanning of the devices which are in their range.
- iv. Display the list of all the devices in the range.
- v. Select the device with which one wants to do the chat.
- vi. If the device connects then set up the chat.

# ARCHITECTURAL DESIGN



# Algorithm

## Requesting Device (Client)

1. Launches Bluetooth Messenger.
2. Inputs its name.
3. Chooses to be connected to a Device.
4. Chooses not to be in Listen Mode.
5. selects the device it wants to chat with from 'List of nearby Bluetooth Devices'.
6. Sends its own identity from udetails.txt on server phone's request.
7. Receives server's identity.
8. Inputs and exchanges Messages.
9. All messages exchanged gets stored in 'chat.txt'.

## Requested Device (Server)

1. Launches Bluetooth Messenger.
2. Inputs its name.
3. Chooses to be connected to a Device.
4. Chooses to be in Listen Mode and waits.
5. When a client tries to connect it asks for identity.
6. Receives client identity and saves it.
7. Sends its identity to client.
8. Inputs and exchanges Messages.
9. All messages exchanged get stored in 'chat.txt'.

## Roster (Android Storage/Backup)

1. Server remains in Bluetooth Accept mode.
2. User sends a message saying 'sync' followed by contents of its chat.txt with its name from udetails.txt.
3. Server receives the sync message and stores all the contents that follow



# IMPLEMENTATION PLAN

- ➡ All the package modules should be finished step by step in the certain time.
- ➡ We have completed about 60% of our project yet and 40% more to be done before the deadline.
- ➡ Our teammates are working with this project and we have to plan to complete it before deadline.





# RISK ASSESSMENT

- While doing programming, everything should be considered with the same importance even if it's a single comma/ dot/ semicolon.
- Spelling and upper case/ lower case must also be typed correctly.
- Every function should declare and maintain properly. Otherwise it'll cause error.

# CONCLUSION:

**We have been tried of our best to specify the whole design and process according to our plan of the project. We can expect that we will able to complete this project as our designed plan. We hope we are going to be successful**

THANK YOU