Assignment No. 9

Chat App with Location Awareness

Objective:-
Create chatting app with Cloud and Location Awareness

Description:-

All messages are uploaded by the client and stored in its content provider that have not yet been uploaded to the server. A sequence number is provided to the last message that it receives, along with its own UUID and client identifier to identify itself.
These messages are added to the server and adds to its own database, assigning each message a unique sequence number. The server responds with a list of all of the registered clients, and a list of the messages that it has received since it last synchronized with the client. The list of chat clients is replaced with the list received from the server. Assuming one is using server-assigned client identifiers as primary keys for clients in their content provider, you will be able to maintain the correct relationships between clients and messages in your content provider.
I have implemented google play services in order to work with Location Awareness. It uses the API to obtain the pin code of the location where the phone is located. It also displays latitude and longitude of the device along with the message sent by the user. The sender can be changed by clicking on Settings.

Conclusion:-

In this way I have successfully created Chat App and saved messages on to the cloud along with location awareness.