Requirements

ID	TITLE	CATEGORY	PRECONDITIONS	POSTCONDITION	DESCRIPTION	DEPENDENCIES	RATIONALE	RANK
1	Mainwindow	USER			The user should be able to have a window which lists all ongoing chats.	10	Is needed for a chat conversation to take place	4
2	Chatwindow	USER	4		The user should have a application window for recieving/sending messages to a specific chatroom.	10,11	Is needed for a chat conversation to take place	2
3	Mapwindow	USER			The user should be able to see current location on a map, in a separate window.	9	It's a location based chat application, and should therefore have a map	10
4	Nearby Conversations	USER			The user should be able list all possible chatrooms located nearby.	10	Is needed for a chat conversation to take place	7
5	Application Navigation	USER			The user should be able to navigate between the different windows within the application, with help of a navigation bar.	1,2,3,4	Without a navigation bar it would be tiresome to get from one activity to another	9
6	HTTP Integration	SYSTEM		7	The system should be able to translate and use HTTP response/redirects.			11
7	GCM Integration	SYSTEM	6,8		The system should be able to communicate via GCM.	8,9,10,11	Otherwise the messages would not reach the indended recipient	1
8	GCM Intents	SYSTEM		7	The system should react accordingly with GCM intents.			8
9	GPS Position	SERVER	10		The server should store the GPS coordinates on every created chat room.	3	The application is depending on positioning to work as intended	12
10	Chat Room Database	SERVER			The server should have a database with every chat room and its position.	1,2	We want different rooms to chat in and therefore this is necessary	6
11	User Database	SERVER			The server should have a database with every registered user and theirs RegID, Nick and which chat room the user is connected to.	2	Necessary for the application to work as planed	5
12	Sending Messages	USER	6,7,10,11		When the user sends a message, every user connected to the same chat room, including the sender, should receive that messages.	2	Since this is a chat application this is the most vital part of it	3
13	Receive GPS Signal	SYSTEM			Even when you can´t get your location by GPS you should be marked on the map as good as possible.	3,9	The GPS can be somewhat unreliable and we still want the location of the user	13
14	Chat Room Database	SYSTEM			The chat room database shall be completly downloaded during the ShutApp splash screen.		If the database size grows to large, a longer delay should be implemented for the splash screen.	

| 15 | UX | SYSTEM | | | The UX shall be primarly focused for newer Android devices which can display xhdpi pictures. | | Full UX can only be garanted for Android devices that handles xhdpi. | | |
| 16 | Messages | SYSTEM | | | If server is up and running, all messages shall arrive. Not necessarily in the right order thou. | | All messages shall be displayed in that current chat room. | | |

*Functional system requirements marked with BLUE.
*Non-functional marked with RED.