Assignment CBSE

# Group Members

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# Task 1. Component as a Service – Chat Server

For this task we chose to apply the following process:

*“CBSE with reuse*: developing the Chat server by reusing existing libraries/API”

The API we chose to use is from the following page:

<http://quickblox.com/>

Here we found a good API for which to create our chat application. The API itself covers all bases and has all the functions needed to fulfil the assignment specifications.

Usage of the API

* For registration/login purposes the user is allowed to sign up either via Facebook or by using his/her e-mail. This is done by using the QuickBlox registration/login/authentication components.
* The first page shown to the user is the user’s “Friends” page. The “Friends” page has the following functionality:
  + Friends list which is sorted alphabetically and updated automatically whenever a user goes online / offline.
  + Full CRUD functionality on friends.
  + Contains search functionality.
  + Click on friend to open up their profile page.
* The ”Profile” page has the following functionality:
  + Show user status.
  + Open chat with person.
* The “Chats” page contains the following functionality:
  + List of ongoing chats.
  + Chat name = name of person the chat is connected with /chat group name.
  + Open “New Chat” page.
  + Open ongoing chat.
* The “New Chat Page” contains the following functionality:
  + Show list of friends.
  + Select friend / friends to new chat.
* Each chat option (private / group) allows users to send messages and / or attach a multimedia file.

# Task 2. Component Composition – Android Chat App