

# Mobile Development Project Proposal

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## High Level Description

Our idea for the Mobile Development project was to implement a messenger chat , called Chathub.

The first activity will be a login window. Firstly , if you are not registered yet , you must create an account by pressing the “SignIn” Button. If you already have an account registered in the Database you can access directly to your messages. When you signin you will be redirected to another Activity, where you will have the possibility to create the account by inserting your username and password. For safety reasons you must type twice your password. If the passwords do not correspond a Toast will tell you that you type the password incorrectly. When you have completed these steps your account will be registered so you can login in the activity presented before.

After the login , with a dialog box , the system will asks you if you would like to stay logged when you close the app or not.

The third Activity is going to be a Chat Window where you can visualize all your messages with other users. Furthermore, beside the username of your friends there is a status label that shows you if the user is online or not. In the bottom part of the screen there are two buttons : new chat and Logout.

If you press the New Chat button you will be redirected to a new Activity where there is a searchbar. With this object you have the possibility to search for usernames and start a new chat with them by clicking the button.

With the logout button you can exit from your account and go back to Login Activity , but the device will asks if you are sure to logout from your account.

For deleting the chat with a user you have to long tap on it.

If you tap on a chat , you will be redirected to last Activity , Chat Window. Here we have all the messages sent by the users and here you can write the messages you want to send and there is also the possibility to send images taken from the camera.

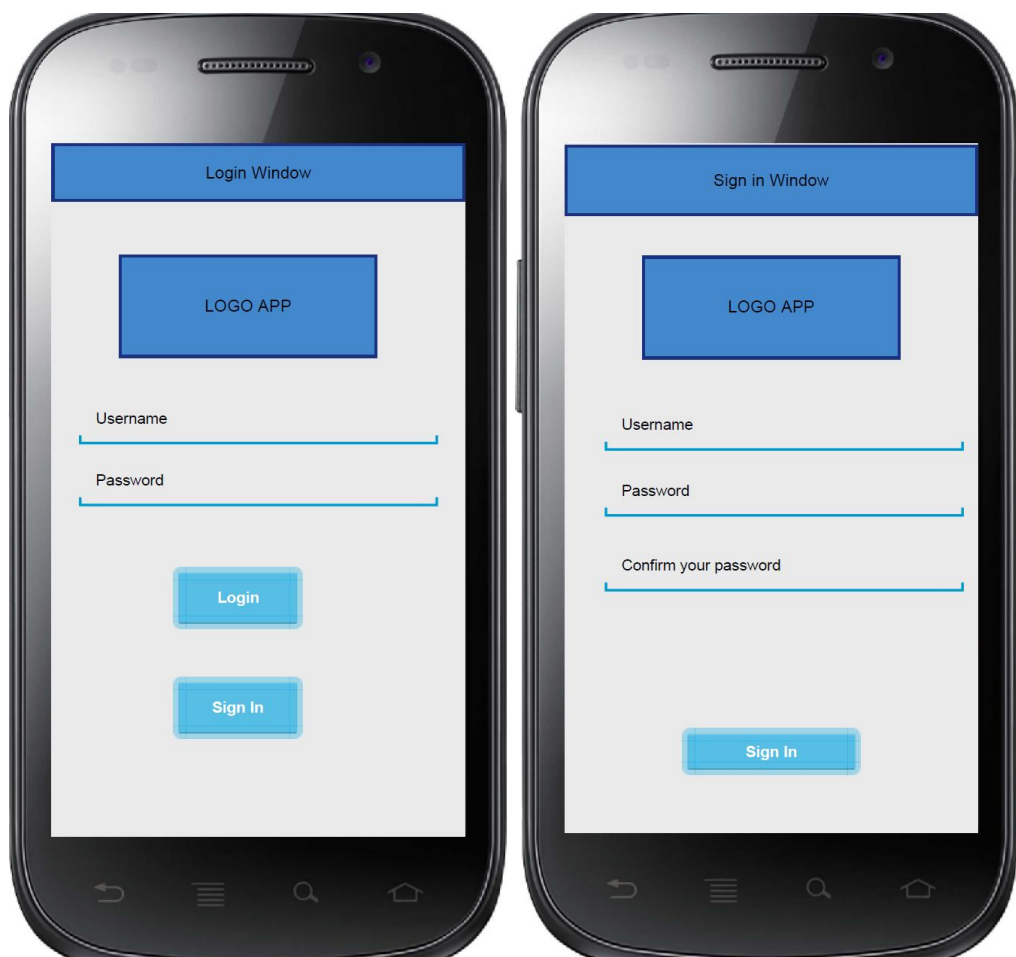
## Technical Aspects

The application will be implemented using Java language and Android Studio. The software features we are going to use are probably : Firebase Database , Long Click Listener , a good amount of buttons, AsyncTask , the usage of the device Camera , Shared Preferences.

## Screen Mockups

Here we have some screen Mockups for having an idea about how the app should look like.

These are the Login and Signin Activites.



Then the dialog box that tells you if you would like to stay logged and the Chat Window Activity



In the end , we have the new chat window Activity and the window screen where you can actually write messages with your friends.

