SOFTWARE ENGINEERING PROPOSAL

## Project Title:

Friend Mapper

## Team Members:

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## Problem:

A lot of times you want to know the locations of your friends for a lot of different reasons for example you have no possible means of transportation to get home. Thus, you need to ask a friend who is nearby for a possible ride home. For that reason you need to know your friends location to be able to get in touch with them. Also, a friend might lose his mobile and this would be able to trace its location. Moreover, a friend who you need to reach is in some place you do not know and he tells you to meet you there, using this application you can pinpoint his location and get there.

## Solution:

Friend Mapper provides various features to tackle each of the problems listed above. Firstly the app will let users enable track their friends from their android handsets. Users however will be required to make friends with people by first adding an already registered user and once the request is accepted one user can be authenticated to access location information about the other friend. A simple option to allow sharing of such information will be available within the application.

In case of a panic state a user can click on the panic button which will highlight the location of the particular user on the map and will send out messages to a specific selection of friends so that the user or friends can trace or contact in case of any problem. It also gives you the ability to send your friend a message or call them to get in touch. After you have looked at the map and seen who is close to you.

Users can also set the time interval at which they want their particular location to update. This depends on the user and the particular internet connection that he is using. Users can click on their friends bubble and view profile etc.

Furthermore, users also have the ability to “hide” such that if they do not want to be found, they are not shown on the map.

(Bonus) Another thing that the application will allow is that in case of a theft a user can track his/her phone on the basis of a particular pin and id provided at the time of registration. Also we intend to include is the ability of the application to raise an alarm or display a message if either of the friends is within a particular radius from the user.