**Friend Mapper on Mobiles - Friend Locator**

**Abstract:**

In order to find out the location of friends, user need to call and ask friend about his where about. The proposed system will help user to find out friends locations as well as the distance from user’s location. The proposed system will also allow user to see all friends on Google map as well.

**Existing System:**

In current system, to find out the location of friends, user need to call and ask friend about his where abouts.

Find My Friends allows you and your friends to keep tabs on each other, even while apart. It’s a great way to coordinate meet-ups, or regroup on a large outing.

Find My Friends lets you:  
See the location of any friends on a map, with their permission, through their cell phone

**Proposed System:**

The proposed system will help user to find out friends locations as well as the distance from user’s location. The proposed system will also allow user to see all friends on Google map as well.

This app allows you to locate your friend on a map. You can keep a list of friends, and locate them on a map if they enable their location, or if you don't block or get blocked by them. As such, you can add/block/delete friends when ever you want. To add a friend, you need to know his/her username. The add will be placed as a pending request for your friend.  
You can forbid some of your friends from seeing you on a map by blocking them, or you can forbid all your friends altogether by setting the enable location button to off.

**Overview:**

Have you ever wished that you would come to know your friend’s locations without asking them?

Have you ever wished that you would get to know which friend is just few kilometers away from you and would then meet him personally?

The application “Friend Locator on Mobiles” solves all these problems. It offers below services

1. Allows user to select friend for his location updates.
2. Uploads user’s current location at specific frequency.
3. Get friends current location
4. Shows friends location on google Map.
5. Shows distance in kilometers for friends away from user.

**Technology :**

Technologies used are

Mobile Application:

* Android Google API.
* GPS (for getting user’s current location)
* GPRS (for internet connectivity between mobile and server)

Server Application:

WCF :(Windows communication Foundation) REST service.

REST :(Representational State Transfer protocol)

**Implementation Modules:**

Entire system consist of two components

**1.Mobile Application Modules:**

1. *Friends on Map*: This module allows user to view all friends location on Google Map.
2. *Sync up of Locations*: This module is responsible of fetching friend’s locations from server. This module also finds out user’s current location via GPS and is responsible of uploading the current location of user to server.
3. *Settings*: This module allows user to set some settings for the applications.

**2.Server Application Modules:**

* *WCF REST Service:* The WCF REST Service has below modules:
* *Locate Friend:* Client will send User data to REST Service, This service will stores the user data into databse. And Client can ask for his friends data by sending friend(s) mobile number to REST service to get current location of friend.

* *SQL SERVER 2000:* Storing users data.

**System Requirements:**

**Hardware Requirements**

Mobile which has below features (The app can also run on emulator)

* GPS
* GPRS
* Android phone

**Software Requirements**

* Android SDK 1.5 or above.
* Eclipse IDE
* SQL Server 2000 or above