School of Computing  
CA326 Year 3 Project Proposal Form

**SECTION A**

Project Title Find Your Pal (GPS TRACKING APPLICATION)

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Student 2 Name - Eric Mcevoy ID Number - 19743215

Student 3 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID Number \_\_\_\_\_\_\_\_\_\_\_

*(A third team member is exceptional and requires detailed justification.)*

Staff Member Consulted for supervision - JANE KERNAN

Project Description (2 pages max)

**Introduction**

**Outline**

The main purpose of this location tracking app is to get information about a certain person’s current location which will then pinpoint their current position. Will most likely be focused on social aspects of life, like nights out etc.

**Background**

We think this application will be useful to so many users not just in Ireland but throughout the world. With the gradual rise of unlawful activities acted upon people unwillingly, especially on nights out when people aren't fully conscious of what they are doing.

**Goals**

For our purpose we will be focusing on using this application to find a friend's location if there is possible worry about them.

Users will accept a request in order to reveal their location to a friend. This information can be turned off manually or will be turned off automatically after a set period of time(which will be chosen by the user).

Will implement group chats, which (once all users accept the requests) displays the location of each user within the group.

Users can send “alarms” to each friend which have their location authorized or each friend that is active in the group chat. This will trigger each person that something is wrong with them. Can also send a message. (Will display on their location on the map)

Whilst open, our app will display an app and will be consistently looking for the shortest possible route to the authorized users locations.

We also want to create an environment that will protect our customers from malicious users. Online safety is just as important as real life safety.

**Programming language(s) and tools**

Language: JAVA, javascript(frontend), Mongodb database, XML/JSON file to structure the data for storage and transport.

Algorithms: Travelling Salesman, A\*, Dijkstras dynamic programming implementations.

API: Geolocation API

Platform: Compatible to android and ios users. Cross platform can happen.

**Breakdown of work**

**WE WILL DECIDE TO USE A GAANT CHART TO SHOW HOW OUR WORK IS BROKEN DOWN AS WE GO ALONG.**

**Student 1**

*Student 1 should complete this section.*

**Student 2**

*Student 2 should complete this section.*