Introduction

[ OPENING SLIDE ]

GoGetMe is a two part application that will assist our ageing population who are suffering from the early stages of dementia (Alzheimer’s). It will provide patients with directions to their favourite locations and allow carers to monitor the whereabouts of a patient.

The overall concept is to allow the user to feel they are still independent, while protecting them and keeping the family informed if a problem arises, allowing them to provide assistance and to locate their loved one when needed.

[ CLICK SLIDE ]

The ‘Patient’ side of the application is setup to allow them to venture out and about and find their way to day-to-day destinations; corner shop, newsagent, etc..

[ CLICK SLIDE ]

The ‘Carer’ side of the application provides reassurance for carers (family members) by remotely being able to track or check the location of their parent or partner without intruding.

These two tools have been built into one application – GoGetMe.

[ CLICK SLIDE ]

--------[ 1 min 10 sec ]--------

The requirements for the completed system to operate fully are;-

That the house where the patient resides must have a WiFi connection to the internet.

The smart phones for the installation of the app must be at least Android 12 (which is Honeycomb 3.1) this covers about 75% of the android phones in the market at the start of this year. The phone provider’s package allows for internet connection and location services through 3G or higher, and the phone has a memory card and camera.

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How the system works?

At the core of the system is the patients location data in a web service. Each phone must be registered on the applications web services; this will enable them to access the saved location data.

Only registered phones are allowed to access the specific patient phone that they are linked to. There can be many phones linked to the one patient phone and this is controlled from the patent side of the application.

As the product we are showing is a prototype some of the features of a finished product are not implemented at present. In other words the original requirements specification has a few outstanding tasks.

--------[ 1 min 35 sec ]--------

The ‘Patient’ application

The installation and initial registration is best carried out by the primary carer with the patient to ensure the setup is correctly carried out. This is not a difficult process and information is provided to the user from the server if the registration is successful. The phone IMEI number of any registered phone is used to check before any location data is stored or provided.

It is intended to store time stamped location data for the patient phone when they leave the proximity of their home WiFi. Obviously there are laws on data protection which will need to be observed for the storing of personal data. This data will be retained for 48 hours before being removed from the server, to be in line with principle 5 of The Data Protection Act.

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Add a Location is where the user along with their primary carer will create the locations list that is stored for the app to operate. The add location will only be displayed once the phone is active. Once the user has registered, they can add any new location they wish. This can be a picture of someone or a house or shop, etc.. The picture will be the main key aspect to helping the user pick the location they wish to navigate too.

The user can either have a new image saved from the camera or upload a picture to their SD card, for example, from street view. This will allow images to be picked from the gallery.

On entering the Add Location screen the user will be presented with a small form to enter the text for the saved destination. So the user must at least enter the first line of the address and the postcode. The app uses the google geo-locator for obtaining the GPS coordinates. The take picture screen will present the user with two buttons; one will be the gallery and one for the camera. If the user is using the app for the first time, they will need to take the picture first. They do this by selecting the camera button. The phones camera which is part of the operating system will present its self, take a picture and it will shown in the preview page. If the user is happy with the image they have taken, they will press the load button placing the image in the galley for the app, where they are saved. Once all the details are ok, including a title for the image, they will press the load button which will save the details for the selected location.

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The ‘Carer’ application

The carer phone is setup in the phone registration to the web service, where the carer registers their phone and the linked phone number of the patent allowing them to access the location data for that phone.

The carer can then view a map showing the last known location of the patient with a marker and their own position shown as the blue moving arrow, allowing the carer to navigate to the patient. The last know location will be updated by a timer from the last known location on the web service to ensure the map information is current.

There was to be a map showing the route and date/time information of the patients route, to allow the carer to assess if the patient may be in need of help. This may be developed further at a later date.

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We would like to show you a short video which demonstrates the application in action.

--------[ 0 min 55 sec ]--------

The Video talk over….

Running Time Split Time  
[ 00:00 ] [ -- : -- ]

The Registration Screen form is for entering your name and phone number. [ pause ] If you are setting up a carer phone, additional information is required for the linked phone number of the patient’s phone.

[ 00:35 ] [ 00:35 ]

The Add Location Screen

Again with the assistance of the principle carer the ‘Add Location’ is the first task to be carried out after phone registration. This allows the user to add a picture using the camera and load this to the gallery for use. Also to put in details for the location, - ‘HOME’ is a default location used on the GetMeHome button and stored in the favourite locations to walk to from their home. Take a picture of the location or a reminder (maybe bread and milk) and store this along with a name or description and the address and postcode. At the moment this data is stored locally on the phone for the patient’s favourite locations future iterations will include server storage for situations where the phone is lost. This data can be edited and locations can be removed or added at any time.

Once the data for the locations has been added the user can then select a location to walk to in the Select Location list screen – Once the location has been selected, the map screen will appear with a location marker for the destination and your current location and a visible line, a path between the two locations to show you the route.

Without a saved location, the main one being the home location there is nowhere to - GoGetMe to.

[ 01:20 ] [ 00:45 ]

Just take that walk around the local area with the patient to check their favourite locations.

On this screen there are two buttons one for selecting a new location and the other which recalls the home location and displays the route from the users current position to their home on the map.

[ 01:37 ] [ 00:17 ]

If the patient gets lost along the route the route will revise to their current position. Pressing the HOME button will re-draw the route to your home address.

[ 02:05 ] [ 00:28 ]

In the GoGetMe carer mode the carers position is identified on the map by the blue dot or arrow and the patient’s position is shown as a red marker allowing the carer to navigate to their location even when they move.

[ 03:30 ] [ 01:25 ]

The help system is available through-out the application.

A help button is located on every screen of the application. It serves as a guide/ tip page which contains information on how to run through the functionality of that screen and what each button/activity does.

It is a user focused part of the application aimed at making the application accessible. For example on the “Add Location” page, there is a help button which when clicked takes the user to a help page with tips on how to make use of the buttons on the page and what each button does e.g. choosing a location, choosing an image that represents the location and then storing the details.

[ 04:05 ] [ 00:35 ]

--------[ 4 min 05 sec ]--------

For future projects we have learned that the risks identified in our planning phase really need to be given priority. The main risks to our project were Task Time Overrun,   
 Task Too Complicated and   
 Personnel morale.

All of these risks came for haunt our project.

It showed us that our management of the risks and the estimation of their impact was hugely underestimated.

In saying that, we are of the opinion that the project - as a prototype - has shown the possible benefit from an application like this.

Thank-you for listening to this presentation.

We can now answer your questions, if there are any, please feel free.

--------[ 0 min 40 sec ]--------