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FInal Project

v.2

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**Abstract**

# Introduction

## Overview of project concept

[*The introduction should encompass the following:*

*This section should consist of the main concept of the project i.e. ageing population, loneliness etc.*

*What is the aim of the project?*

*Any known systems currently in use?*

*How will the system be accessed?*

## Project Motivation

*Mention any particular system that it will use and why.*

*Mention any key motivating factors i.e. the lack of support that is given to patients when they are discharged from hospital.* ]

## Background

*This section needs to specify the background, so what is the history of patients being discharged from hospital?*

*Many older people are isolated, they may be widowed or living away from family members who are unable to offer support.*

*What help do they currently receive? Lack of government funding (so the situation will be worsened [find some facts and figures on this]*

*What is the impact of not receiving help once discharged from hospital?*

*What are the effects of lack of contact, loneliness, reoccurrence of illness, readmission to hospital?*

*What is the history of assistive technology?*

*What are the current devices that are aiming to address these issues?*

## Technical aims

[*Say what the technical aims are: to assist in the rehabilitation and building of community with patients that are discharged from hospital by creating a system that offers real-time communication between [caregivers] and people in need (this assistance is not limited to patients that are discharged from hospital and can be utilised in many settings such as young carers, women travelling alone at night, children walking home from school.*]

## Structure of Report

[*So far the paper has discussed the background for the project, the motivation for the project and how it will address the technical aim. The remainder of this report will be outlined as follows:*

[*Part 2: Background research*. *The aim of the sections is designed to give context to the project and will demonstrate the difficulties patients face when they are released from hospital without a support network and discharge plan in place.*

*Part 3: Design. Will detail the specifications of the system, a risk analysis will be conducted*

# Background research

## Overview of patient discharge from hospital

[*Give an overview of how patients are discharged from hospital, what are the consequences, how is it managed and what are the effects of not having a discharge plan in place.*

## Benefits of assistive technologies

[*What are the benefits of assistive technologies and how have they benefited, look at the papers that have been reviewed.*]

## Existing systems

[*Discuss any existing systems and how they benefit or contradict.*]

# Design Specifications

## System Requirements

[*This section should detail the specification of the system and how I expect to it operate and function.*]

## Risk Analysis

[*This section will detail the risks of the system i.e. for elderly users as discussed in 1.3 above the system needs to be simplistic for all users as the simpler the system the better, although older people will become more tech savvy as time moves on technology is advancing at a rate of high intelligence so although in the future we will be more tech savvy we will never be able to keep up with future developments. The user interface needs to be basic so that is not too complex, need to take into consideration older people may experience memory loss.*]

# System Design

## [Insert the design methodology that will be used, gps, user interface, wearable device, pendant, watch etc]

## Specification of system

[*Find framework for device that communicates with mobile application*]

## Functional

[]

## Non-functional

[]

## Software/Hardware

[]

# Design Elements

## Use Case

[*Insert from proposal*]

## Wireframes

## Branding

[*Insert colour schemes, logos etc.*]

## User Interface

## [*Do some mock ups of user interface and explain*]

## [*System interactions*]

## Prototyping

[*Insert prototytping*]

## Revenue model – Not sure where this should go?

# System Architecture

## Functionality of system

## Systems architecture

## Technical reports

## Components

# Implementation

[*Write about how the system was implemented*]

## Wearable Device

## App

## Breakdown of each section

# Testing

## Overview of testing methods

[*Insert how the system will be tested*]

## Black box

[*What is black box testing*]

## White box

[*What is white box testing*]

## User testing

[*Insert evaluation of the device and app*]

# Successes and Issues

## Technical successes

## Evaluation of system

## User experience

# Conclusion

# Bibliography

# Appendices

Please see below appendices to support the report.

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