Software Project Management Lab 2 Report

Course: Software Project Management SOFE 3490
CRN: 74667

Topic: Fall Monitor

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Introduction

As a team of diligent Software Project Managers, the topic that we selected to work on is Fall Monitor. The fall monitor will contain safety measures and emergency protocols that are required in case of a fall. The monitor will contain hardware that incorporates a motion sensor and a communication module via bluetooth.

Problem

The reason behind choosing this topic was to tackle a serious concern among citizens. The safety issue entailing the well being of senior citizens and people with disabilities are highly overshadowed and our job as a teaM is to raise awareness on the importance of this issue and develop a functioning model demonstrating the objectives mentioned below.

Scope

The ideal project must be accommodating towards the customer, the UX must contain simplified interface from the stage of activation to regular operations of the monitor on a day to day basis. We hope to improve the rate of incidents of deaths from a fall. The product must be able to efficiently improve emergency response teams performance for incidents as such. We are going to deliver these with proper development strategies and taking responsibility for all the underlying cost with respect to development.

Objectives

a) Website should provide adequate information about how the device works as well as eligibility requirements for the device.
b) Website should allow information about the client to be entered before activation of the device, provided they meet all the eligibility requirements.
c) Device should detect if a fall has occurred with the use of a motion sensor.
d) Device should alert safety officers in the event of a fall, provided that the client does not get up after a specified time or remains motionless for a period of time, such as 15-20 seconds.
e) Device should successfully send clients information and GPS coordinates to the safety officers.
f) Devices must be able to make a call at any geographical location without interruptions caused by network issues.
g) Website and device must be user friendly, in terms of information and activation steps.

Measures of Success

a) Reduction in fall-related deaths of elderly and disabled people in Canada.
b) Reduce in response time from officers thus reducing severe injuries and getting clients the help they need faster.
c) Device is able to make a successful call regardless of geographical location and network issues
d) The device keeps track of how fast the client falls in order to call the safety officer.
e) Project cost should not exceed money provided by the investor.

f) The product must raise awareness towards the importance of ensuring the well being of seniors and people with disability
g) The project must be efficiently developed in terms of cost in order to be sold to the market for free.

Infrastructure Needed

a) A necklace to be worn around the neck
b) GPS device
c) Communication module, such as bluetooth
d) Cloud server to store all the clients information
e) Motion sensor to detect if a fall has occurred