Design Document & Architectural Design

Watch Yourself

wearable personal safety app

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**Application Design Document**

**Intro**

Watch Yourself is an app designed to offer quick access to potentially invaluable phone utilities that may be of help in a threatening situation.

**Audience**

The intended audience for this App is anyone who has been in a potentially threatening situation and wished they had a quick and discreet tool to access some utilities that may be of assistance.

**The Experience**

The primary experience is one of total ease with the application user interface. In a dangerous situation the User has no time for a complicated UI. Therefore the Watch Yourself app uses a simple interface with large buttons and quick shortcut gestures to access application features both quickly and discreetly.

**How it will be used**

Example 1: A user is walking home alone after an evening class and notices a stranger is following too closely behind. Using the Watch Yourself smartphone app the user initiates the emergency alarm to scare off the potential attacker.

Example 2: A user is pulled over by police and feeling threatened, desires to discreetly initiate a video recording of the interaction. The users phone is in the car console and not easily at hand without reaching over, so the user initiates the video recording from the Watch Yourself app on their paired Samsung Gear smartwatch, capturing audio and some video footage.

Example 3: A user is in an Uber and notices the driver is purposely traveling off route. User wishes to alert an emergency contact quickly so they use the Watch Yourself app to send a SMS message to a predefined user contact with their last known location.

**Features**

1) Phone Emergency Contact

With one button press a user can initiate a call to a predefined emergency contact. Call will be initiated automatically allowing the receiver of the call to listen in.

2) Message Emergency Contact with user location

With one button press a user can initiate an SMS message to a predefined emergency contact. The message will contain a call for help and will include the user’s location at time of message transmission.

3) Initiate Video Recording

With one button press a user can initiate a video recording on the device paired smart device. Recording will be automatically saved and require unlocking of the device in order to access or delete.

4) Initiate Audio Recording

With one button press a user can initiate an audio recording on the device or paired smart device. Recording will be automatically saved and require unlocking of the device in order to access or delete.

5) Initiate Emergency Alarm

With one button press a user can initiate a loud alarm from the Smartwatch or Smartphone in order to call attention to themselves and attract help.

**Architecture Design**

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