IMAGINE IOT
THE WATCHDOG
PROTOTYPE CHALLENGE
Summary

Security conscious residents need a solution to monitor and protect their homes while they’re not physically present.

Storyline

The concerned resident is interested in knowing what is going on at his home while he is away. He needs to know when someone has entered his property. With (pet friendly) motion detectors strategically placed around the property, alerting him via his mobile device and based on the real time video feed he receives, the resident will be able to identify who is entering his property and ascertain if it is a visitor or an intruder.

On determining that the person is a visitor, the resident is able to engage with him, and/or on determining that there is an intruder on his property, the resident is able to trigger the alarm and summon the contracted security response company to his property. He is also able to retrieve the video of the intruder at a later time so that it can be provided as evidence in subsequent investigations.

In this way, he is able to ensure the safety of his home, the people in it and his belongings.
Persona

JOE

Concerned Resident

“With the increase in burglaries and violent crime, I don’t want my wife to be left alone to ‘hold the fort’.”

About

• Late 30’s, married to a working wife, with small children
• Director in a high profile firm
• In a career which requires extensive travel

Responsibilities

• As a husband and father, I am responsible for my family’s physical and financial well-being.
• As a director in a consulting firm, I am responsible for managing existing business and acquiring new business.

Main Goals

• Ensure the safety of my family and home whilst away
• Have an awareness of “friendly” visits on my property such as lawn mowing service, meter readers and postal delivery workers.
• Have a means of communicating with “friendlies” via a Skype-type arrangement situated at the entrance
• Have an awareness of intruders entering my property
• Having the ability to summon the contracted armed response company before the alarm is tripped
• Having peace of mind knowing all is well on the home front and to continue working

Needs

• To be notified if someone has entered my property
• To see who it is
• To know specifically where they are
• To communicate with the visitor
• To summon the response unit in the case of an intruder
• To know when help will arrive.
• To record images with date and time detail for evidence

Pain Points

• Alarm is tripped only once an intruder has entered the house...
• Alarm Company calls to find out if a response unit is required only after the alarm has tripped. Not having a visual of the house, the response unit is requested even in false alarm circumstances.
• “Friendly” visits are wasted, e.g., postal service making deliveries discovers no one is home and so leaves a collection slip – meaning time needs to be taken during work hours to pick up the delivery from postal depot.
Point of View

As a concerned resident,
I need a way to monitor my home, engage with visitors and summon help if required
so that the safety of my household is ensured.
<table>
<thead>
<tr>
<th>ACTIONS</th>
<th>Notification / alert received “Dog barks”</th>
<th>Check what’s going on</th>
<th>View front garden</th>
<th>Visitor rings door bell</th>
<th>Chat with visitor. “No that’s not my dog. It’s Jim’s dog. He lives next door at number 38.”</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINDSET</td>
<td>There’s someone coming in to my property</td>
<td>Hmm that’s odd – I’m not expecting anyone</td>
<td>Should I sound the alarm? Armed response will be here in 5 minutes. Doesn’t look like a threat. Think I’ll watch and see what happens</td>
<td>Wonder what he wants? Let’s chat.</td>
<td>Wow! We do still have some good Samaritans!</td>
</tr>
<tr>
<td>FEELING</td>
<td>😊</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOUCH POINTS</td>
<td>Notification on smartphone</td>
<td>Video feed of front garden</td>
<td>Video feed from front door</td>
<td>Device installed near front doorbell, relaying Skype type communication</td>
<td>Video feed of front garden</td>
</tr>
</tbody>
</table>
Prototype screens for an IoT application to solve your PoV

Mockups include the following basic screens:

1) An overview screen highlighting zones which have had motion detected.

![Alert Overview](image1)

2) Where there’s is no particular problem area, all areas can be shown.

![Alert Overview](image2)

3) Specified areas can be made full screen.
4) Armed response unit can be summoned and expected time of arrival displayed.

This prototype is available for review.

Please use the link provided:
https://standard.build.me/home/projects/734d007397c7e6fe0cd3391b/research/participant/bbf1d72f7cdf92ae0cd3750d