Alpha Presentation
2020 Business in a Box
The Capstone Experience
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Project Overview

- Model Future 2020 Business Practices
- Develop Connected Product Solution
- Manufacturer Portal Web Application
- Customer Mobile Application
- Augmented Reality Visualization of Device
- Digital Device Simulation
System Architecture

- Module
- Particle
- Manufacturer’s Portal
  - laravel
  - React JS
- ThingWorx
- iOS App
  - React Native
- thingworx studio
  - thingworx View
- Java Device Simulator
Manufacturer’s Web Portal Dashboard

![Manufacturer Portal Dashboard Image]
Customer Mobile Application
3D Model for Augmented Reality
Java Device Simulator

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Running</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Bedroom</td>
<td>Matress</td>
<td></td>
</tr>
<tr>
<td>Second Bedroom</td>
<td>Matress</td>
<td></td>
</tr>
<tr>
<td>Main Laundry</td>
<td>Washer</td>
<td></td>
</tr>
<tr>
<td>Bad Device 1</td>
<td>Bad Accelerometer</td>
<td></td>
</tr>
<tr>
<td>Bad Device 2</td>
<td>Dying Batteries</td>
<td></td>
</tr>
<tr>
<td>Bad Device 3</td>
<td>Malicious Device</td>
<td></td>
</tr>
</tbody>
</table>

Buttons:
- Start Devices
- Add Device
What’s left to do?

• Finish Manufacturer’s Portal Web Application
• Finish iOS and Android Mobile Applications
• Use Java Simulator to Mimic Multiple IoT Devices
• Improve Interactions with AR Component