From Students…
…to Professionals

MICHEL GANS
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Alpha Presentation
SpectrumGO

The Capstone Experience
Team Spectrum Health

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Project Overview

• Mobile apps for real-time hospital navigation
• QR codes on posters determine position
• Web application
  • Managing navigation information
  • Viewing reports
System Architecture

- Web Application
  - ASP.NET
  - REST API

- SQL Database

- iOS Application
  - ALAMOFIRE

- Android
  - Retrofit
Web Application

Connection Index

<table>
<thead>
<tr>
<th>UserId</th>
<th>StartWPlId</th>
<th>EndWPlId</th>
<th>Instruction</th>
<th>HandicapAccess</th>
<th>Angle</th>
</tr>
</thead>
<tbody>
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<td>1</td>
<td>2</td>
<td>Turn right, walk straight to next waypoint</td>
<td></td>
<td>180</td>
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<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>Turn left, walk forward then take the first right</td>
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</table>

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iOS Application
Android Application
What’s left to do?

• Update system for mobile application
• Refine database schema
• Report system
• HTTP connections between mobile and web