Beta Presentation
Autonomous Vehicle Fleet Connectivity App

The Capstone Experience

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Fall 2018
Project Overview

• Functionalities
  ▪ Provide tools to manage an autonomous vehicle fleet

• Features
  ▪ Catalogue information about vehicles
  ▪ Send push notifications from app about vehicles
  ▪ See real-time alerts and diagnostics of vehicles
  ▪ Provide a driver survey at the end of scheduled testing

• Technologies
  ▪ Angular
  ▪ Microsoft Azure Services
System Architecture

AMDAS

OnBoard

OffBoard

Microsoft Azure

SQL

{json}

Microsoft .NET

Fig. 5.1

Fig. 5.2

Fig. 5.3
Vehicle Search Page

- Silver Jeep Grand Cherokee
  1JEELP41JXMN109186
- Red Audi S5
  KLFA8523J5027204
- Grey BMW X5
  LBMWB140XEMB39852
- Blue BMW 5 Series
  BSTA81F44J5027204
Vehicle Status Page

Red Audi S5
KLFAF8523J0027204

Coordinates of Red Audi S5
53.344, 6.236

Live Data

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIN</td>
<td>KLFAF8523J0027204</td>
</tr>
<tr>
<td>Location</td>
<td>Dublin, Ireland</td>
</tr>
<tr>
<td>Odometer</td>
<td>44586</td>
</tr>
<tr>
<td>Speed</td>
<td>65 mph</td>
</tr>
<tr>
<td>Current Driver</td>
<td>Chad Krause</td>
</tr>
<tr>
<td>Software Version</td>
<td>4.3.2</td>
</tr>
<tr>
<td>Warnings</td>
<td>View</td>
</tr>
</tbody>
</table>

Upcoming Reservations

There are no upcoming reservations for the Red Audi S5.
Reservation Creation Page
My Reservations Page

My Reservations

November 1 10:30 AM
Blue BMW 5 Series
BETA1F4455027204
Location: Troy, MI
Driver: Ross Maguire

October 28 7:30 AM
Red Chevrolet Tahoe
CRU81238552739
Location: Dublin, Ireland
Driver: Joe Lyon

October 25 6:00 PM
Red Audi S5
KLFA85532J5027204
Location: Kokomo, IN
Driver: Klint Kaehler

October 25 4:00 PM
White Lexus LFA
JLFA83233J5027204
Location: Kokomo, IN
Driver: Chad Krause

October 22 11:00 AM
What’s left to do?

- Aptiv engineer testing
- User permission restrictions
- In-depth browser testing
Questions?