MICHIGAN STATE UNIVERSITY

Alpha Presentation
Location-Based Services App

The Capstone Experience

Team Auto-Owners
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Michigan State University
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Project Overview

• We have created a mobile app that will allow Auto-Owners employees to view customer information wherever they go
• The app shows a map of the user's location, and displays all local addresses that have policies, claims, or proposals
• The legend has settings to filter what information is shown
System Architecture

Ubuntu Server
MySQL Database

Admin Web Portal

iOS
Swift/Xcode

Android
Android Studio

Google Maps API

HTTP/POST/PUT
Login Screen
Map Screen
Policy Search and Display Screen

AutoOwners

Enter address

Policy 1
Insured Name: Taco Bell
Address: 601 E Grand River Ave
Type: Commercial
Effective Date: 2017-12-31
Expiration Date: 2018-12-31
Policy Limit: 0

Claim 1:
Claim Number: 1111
Loss Date: 2017-02-06
Submission Date: 2017-02-07
Close Date: 2017-02-08
Amount: 10000
Settled Amount: 8000
Suspected Fraud: true

Claim 2:
Claim Number: 1112
Loss Date: 2017-01-25
Submission Date: 2017-02-01
Close Date: 2017-02-27
Amount: 100000
Settled Amount: 0
Suspected Fraud: true

Policies

Insured Name: Taco Bell
Address: 601 E Grand River Ave, East Lansing, Michigan
Policy 1:
Type: Commercial
Line of Business: TPP
Effective Date: 2017-12-31
Expiration Date: 2018-12-31
Policy Limit: 1000000

Claim 1:
Number: 1111
Loss Date: 2017-02-06
Submission Date: 2017-02-07
Close Date: 2017-02-08
Amount: 10000
Settled Amount: 8000
Suspected Fraud: true

Claim 2:
Number: 1112
Loss Date: 2017-01-25
Submission Date: 2017-02-01
Close Date: 2017-02-27
Amount: 100000
Settled Amount: 0
Suspected Fraud: false

Note to Underwriting  Submit Claim
Legend Screen

Auto Owners

Policies
- Open Claims
- Recently Submitted
- Recently Closed
- Under Investigation

Claims
- Open Claims
- Recently Submitted
- Recently Closed
- Under Investigation

Local Policies
- Home: 35
- Auto: 33
- TPP: 12
- BOP: 14

Local Claims: 3
Local Proposals: 9
Local Exposure: $1,398,000

Claims
- Policies
- Claims
- Proposals
Admin Portal: Login

Login

Email
christj2@msu.edu

Password
**********

Login
Admin Portal: List Users

<table>
<thead>
<tr>
<th>Id</th>
<th>Email</th>
<th>Created</th>
<th>Modified</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td><a href="mailto:christi2@msu.edu">christi2@msu.edu</a></td>
<td>1/23/17, 12:22 AM</td>
<td>1/23/17, 12:22 AM</td>
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</tr>
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</tr>
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<td><a href="mailto:test@gmail.com">test@gmail.com</a></td>
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<td>1/24/17, 12:01 AM</td>
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</tr>
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<td>1/24/17, 12:04 AM</td>
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</tr>
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<td>8</td>
<td><a href="mailto:testing2@msu.edu">testing2@msu.edu</a></td>
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<td>1/24/17, 12:06 AM</td>
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</tr>
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<td>1/24/17, 12:13 AM</td>
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</tr>
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<td>1/24/17, 12:15 AM</td>
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</tr>
<tr>
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</tr>
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<td>1/24/17, 12:20 AM</td>
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</tr>
<tr>
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<td>1/24/17, 12:21 AM</td>
<td>1/24/17, 12:21 AM</td>
<td>View Edit Delete</td>
</tr>
</tbody>
</table>
### Admin Portal: List Policies

**Auto-Owners**

**Actions**
- New Policy
- List Users
- New User
- List Claims
- New Claim

#### Policies

<table>
<thead>
<tr>
<th>Id</th>
<th>Insured Name</th>
<th>Agency Name</th>
<th>Street Address</th>
<th>City</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Taco Bell</td>
<td>Lansing Insurance</td>
<td>601 E Grand River Ave</td>
<td>East Lansing</td>
<td>View Edit Delete</td>
</tr>
<tr>
<td>2</td>
<td>Taco Bell</td>
<td>Lansing Insurance</td>
<td>601 E Grand River Ave</td>
<td>East Lansing</td>
<td>View Edit Delete</td>
</tr>
<tr>
<td>3</td>
<td>MSU Computer Center</td>
<td>MSU Insurance</td>
<td>450 Auditorium Rd #110</td>
<td>East Lansing</td>
<td>View Edit Delete</td>
</tr>
<tr>
<td>4</td>
<td>MSU International Center</td>
<td>MSU Insurance</td>
<td>427 N Shaw Lane</td>
<td>East Lansing</td>
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</tr>
<tr>
<td>5</td>
<td>MSU Planetarium</td>
<td>MSU Insurance</td>
<td>755 Science Road</td>
<td>East Lansing</td>
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</tr>
<tr>
<td>6</td>
<td>MSU FRIB</td>
<td>MSU Insurance</td>
<td>Shaw Lane</td>
<td>East Lansing</td>
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</tr>
<tr>
<td>7</td>
<td>MSU Wells Hall</td>
<td>MSU Insurance</td>
<td>619 Red Cedar Road</td>
<td>East Lansing</td>
<td>View Edit Delete</td>
</tr>
</tbody>
</table>
Admin Portal: Edit Policy

- **Actions**
  - Delete
  - List Policies
  - List Users
  - New User

**Edit Policy**

- **Proposal Or Policy**: Policy
- **Policy Type**: Commercial
- **Line Of Business**: TPP
- **Effective Date**: December 2017
- **Expiration Date**: December 2018
- **Insured Name**
Admin Portal: List Claims

<table>
<thead>
<tr>
<th>Id</th>
<th>Claim Number</th>
<th>Loss Sustained Date</th>
<th>Claim Submitted Date</th>
<th>Claim Amount</th>
<th>Settled Amount</th>
<th>Claim Closed Date</th>
<th>Fraud Indicator</th>
<th>Actions</th>
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<tbody>
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<td>2/7/17, 12:00 AM</td>
<td>10000</td>
<td>8000</td>
<td>2/8/17, 12:00 AM</td>
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<td>View Edit Delete</td>
</tr>
<tr>
<td>2</td>
<td>1112</td>
<td>1/25/17, 12:00 AM</td>
<td>2/1/17, 12:00 AM</td>
<td>100000</td>
<td>0</td>
<td>2/27/17, 12:00 AM</td>
<td>y</td>
<td>View Edit Delete</td>
</tr>
<tr>
<td>3</td>
<td>1113</td>
<td>2/19/17, 7:00 PM</td>
<td>2/19/17, 7:00 PM</td>
<td></td>
<td></td>
<td>2/19/17, 7:00 PM</td>
<td></td>
<td>View Edit Delete</td>
</tr>
</tbody>
</table>

Page 1 of 1, showing 3 record(s) out of 3 total
What’s left to do?

- Filtering of Policies in Search and in Map screens
- Display data more efficiently
- Color code map markers according to legend filter
- Display cross-selling info on map
Questions?