

The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Spring 2015



*From Students...
...to Professionals*

Course Goals

- Build a Significant Software System
- Work in a Team Environment
- Learn New Tools and Environments
- Build and Administer Systems
- Develop Communication Skills
- Develop Interview Talking Points
- Consider Issues of Ethics and Professionalism



Course Goals

- Teams of Students
- Build Significant Software System
 - Design
 - Develop
 - Debug
 - Document
 - Deliver
- For Corporate Clients
- In 15 (Short) Weeks



Project Deliverables

- Project Plan Document & Presentation
- Alpha Presentation
- Beta Presentation
- Project Software & Documentation
- Project Video
- Design Day

See [Major Milestones](#).



All-Hands Meetings

- MW, 3:00-3:50pm, 2250 Engineering Building
- Presentations By
 - Professor
 - Teams
 - Status Reports
 - Formal Presentations
 - Project Plan
 - Alpha
 - Beta
 - Project Videos
 - Guest Speakers



All-Hands Meetings

01/12: Course Overview
01/14: Project Plan
01/19: (Martin Luther King Day, No Meeting)
01/21: Risks and Prototypes
01/26: Team [Status Report Presentations](#)
01/28: Schedule and Teamwork
02/02: Team [Project Plan Presentations](#)
02/04: Team [Project Plan Presentations](#)
02/09: Team [Project Plan Presentations](#)
02/11: Team [Project Plan Presentations](#)
02/16: Resume Writing and Interviewing
02/18: Creating and Giving Presentations
02/23: Team [Alpha Presentations](#)
02/25: Team [Alpha Presentations](#)
03/02: Team [Alpha Presentations](#)
03/04: Team [Alpha Presentations](#)
03/09: (Spring Break, No Meeting)
03/11: (Spring Break, No Meeting)

03/16: Status Reports
03/18: Status Reports
03/23: [Design Day](#) and the [Project Videos](#)
03/25: Camtasia Demo
03/30: Ethics and Professionalism
04/01: Intellectual Property
04/06: Team [Beta Presentations](#)
04/08: Team [Beta Presentations](#)
04/13: Team [Beta Presentations](#)
04/15: Team [Beta Presentations](#)
04/20: Status Reports
04/22: Status Reports
04/27: [Project Videos](#)
04/29: [Project Videos](#) and [All Deliverables](#)
04/30: [Design Day Setup](#)
05/01: [Design Day](#)
05/06: [Project Videos](#)



MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Team Amazon

Department of Computer Science and Engineering
Michigan State University
Spring 2015



*From Students...
...to Professionals*

amazon

The Amazon logo, featuring a thick orange curved arrow that starts under the letter 'a' and points towards the letter 'n', resembling a smile.

amazon
Try Prime

Your Amazon.com

Today's Deals

Gift Cards

Sell

Help

LAST DAY to Get FREE Shipping for Christmas
with Amazon Prime

Presented by Discover Card

Shop by
Department ▾

Search

All ▾

Go

Hello. Sign in
Your Account ▾Try
Prime ▾

Cart ▾

Wish
List ▾

— ❄ —

FREE

TWO-DAY SHIPPING

ON SELECT FIRE AND KINDLE DEVICES

Limited-time offers



kindle paperwhite

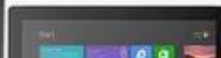
~~\$119~~ \$99

kindle

~~\$79~~ \$59

Amazon Gift Cards

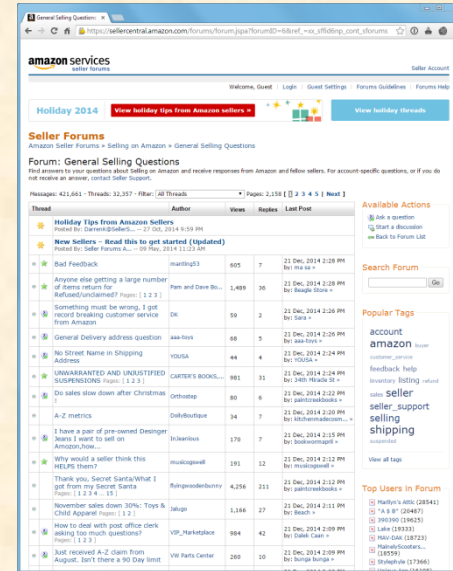
Email Now for Instant Delivery



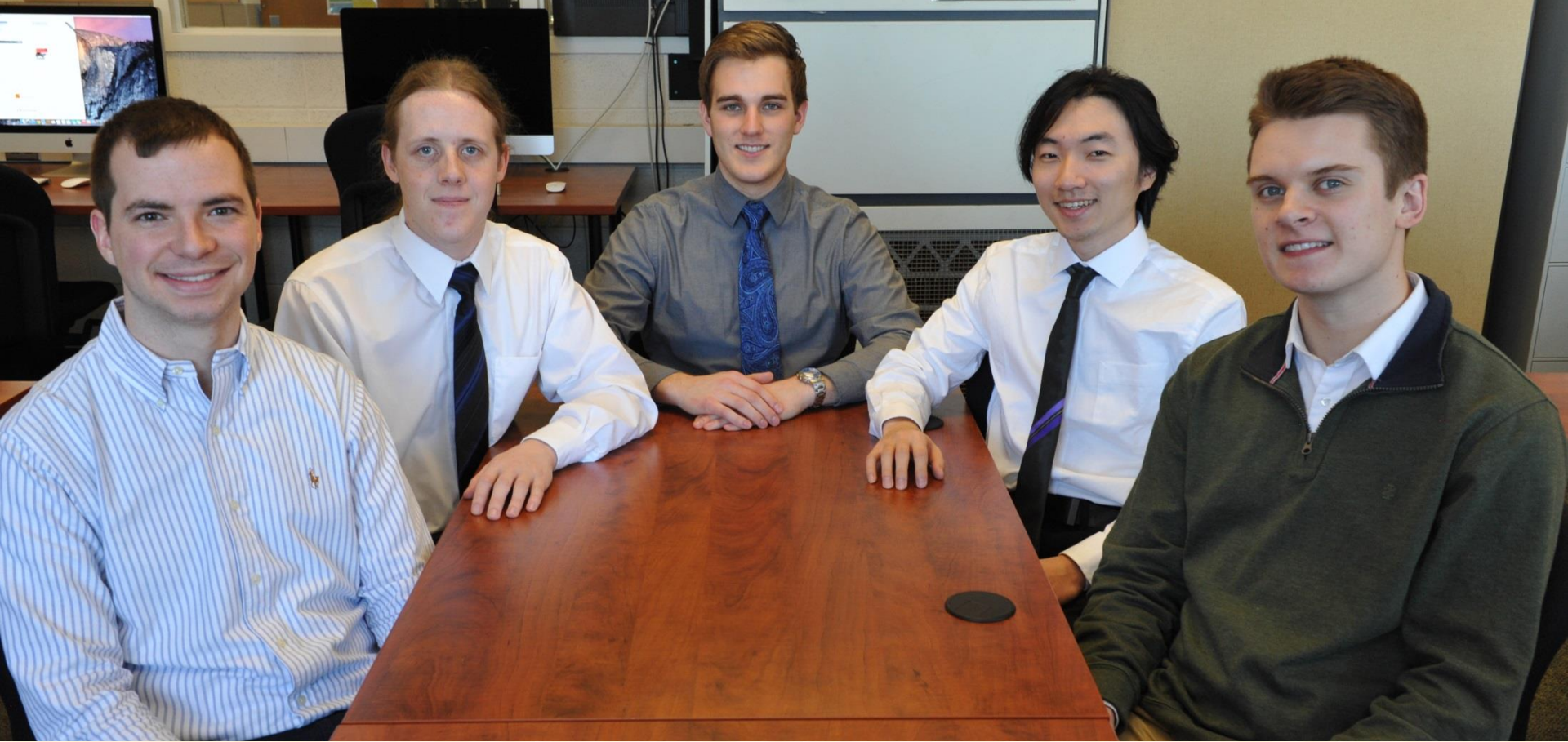
Team Amazon Project Overview

Text Classification of Seller Forums Content

- Functionalities
 - Unlock Value of Amazon's Seller Forums Boards
 - 65,000 Questions Per Year
 - 2,100,000 Replies Per Year
 - By Identifying and Classifying Conversations
- Features
 - Provide Searchable Breakdown of Topics by Day or Week
 - Track Volume of Topics and Identify Trends
 - Send Alerts When Specific Topic Volume Spikes
 - Visualize Forum Volume by Topics and Terms Over Time
- Technologies
 - Amazon Web Services (AWS)
 - Kenesis Client Library
 - Redshift Cloud Data Storage
 - XML (Extensible Markup Language)
 - Relational Database
 - Document Clustering and Text Classification
 - Web Development (CSS, HTML, PHP, JavaScript)



Seattle, Washington

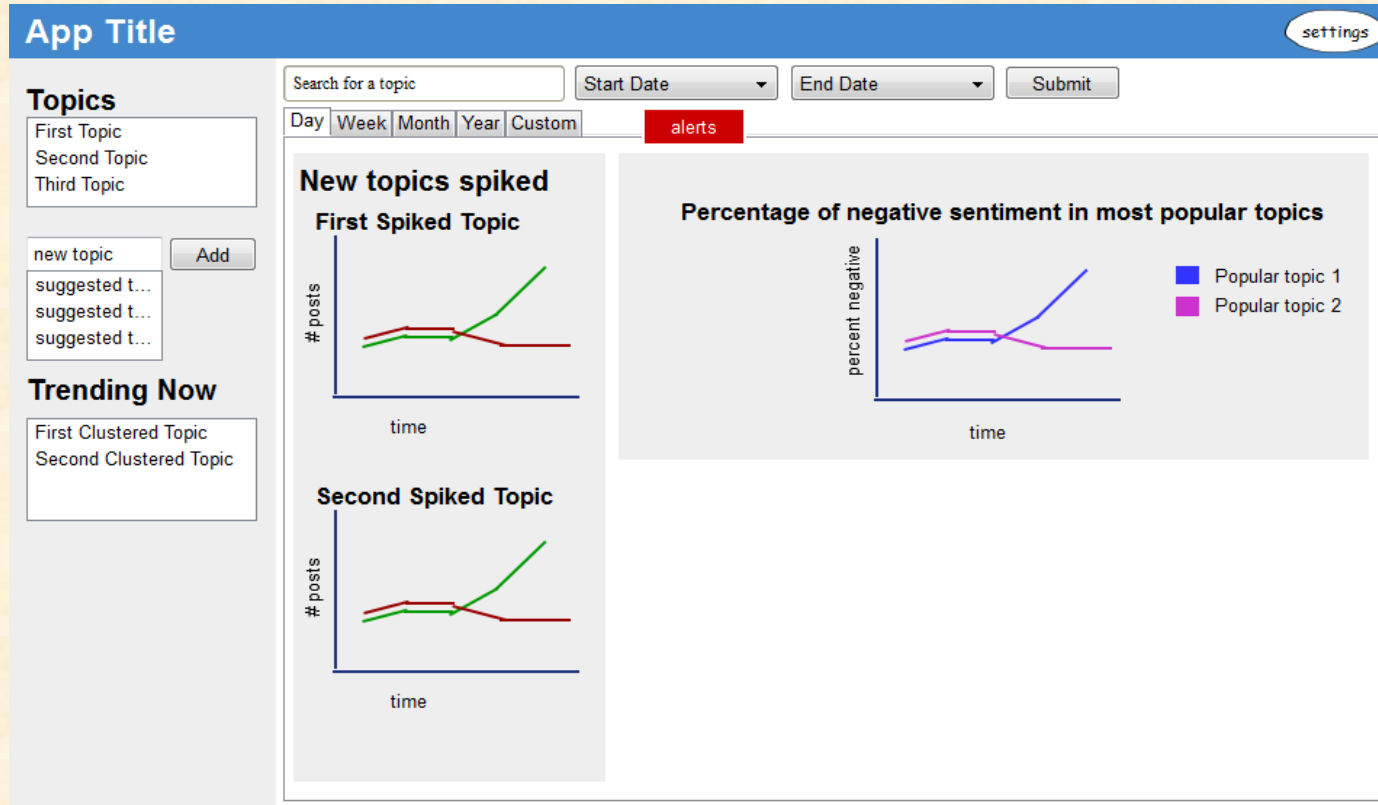


Team Amazon

Max Goovaerts, Ben Taylor, Luke Pritchett, Johnny Zheng, Carl Johnson

Team Amazon Project Plan Presentation

Screen Mockup

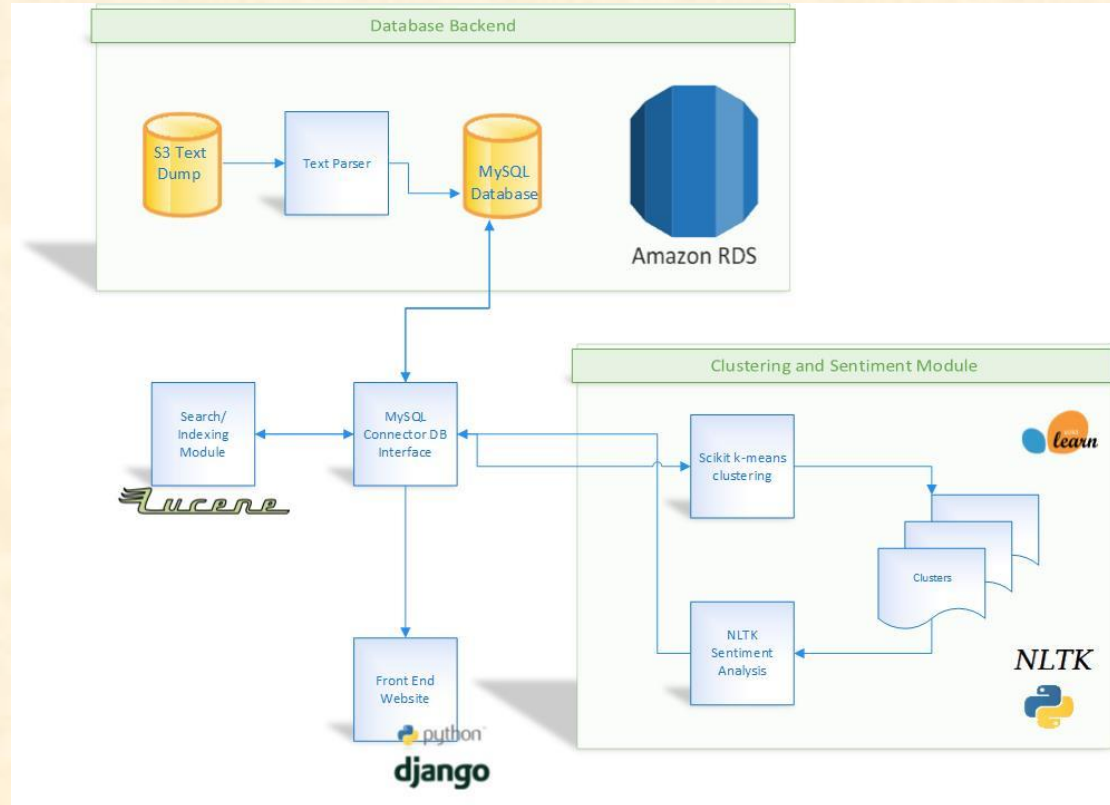


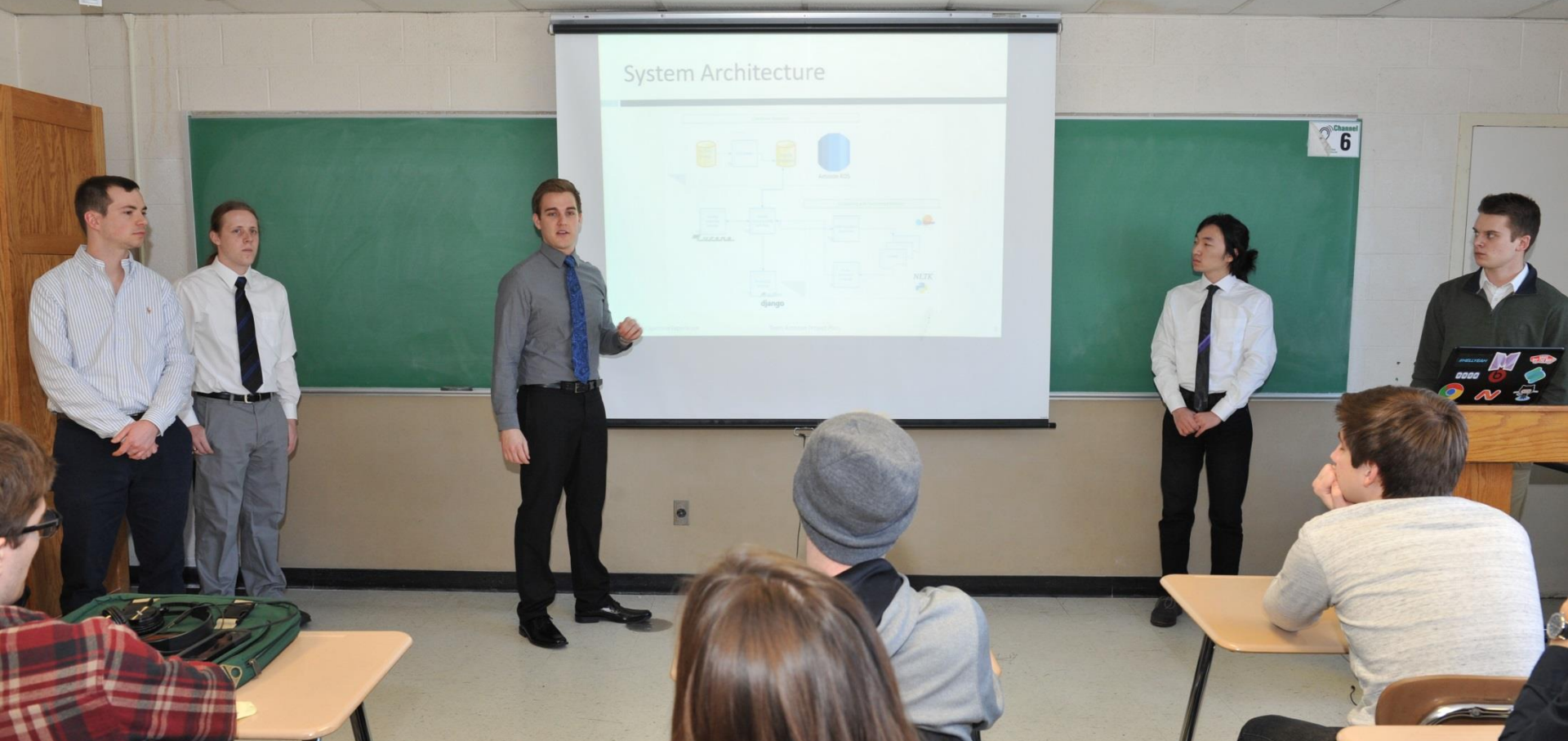


Team Amazon Project Plan Presentation

Team Amazon Project Plan Presentation

Architecture Diagram

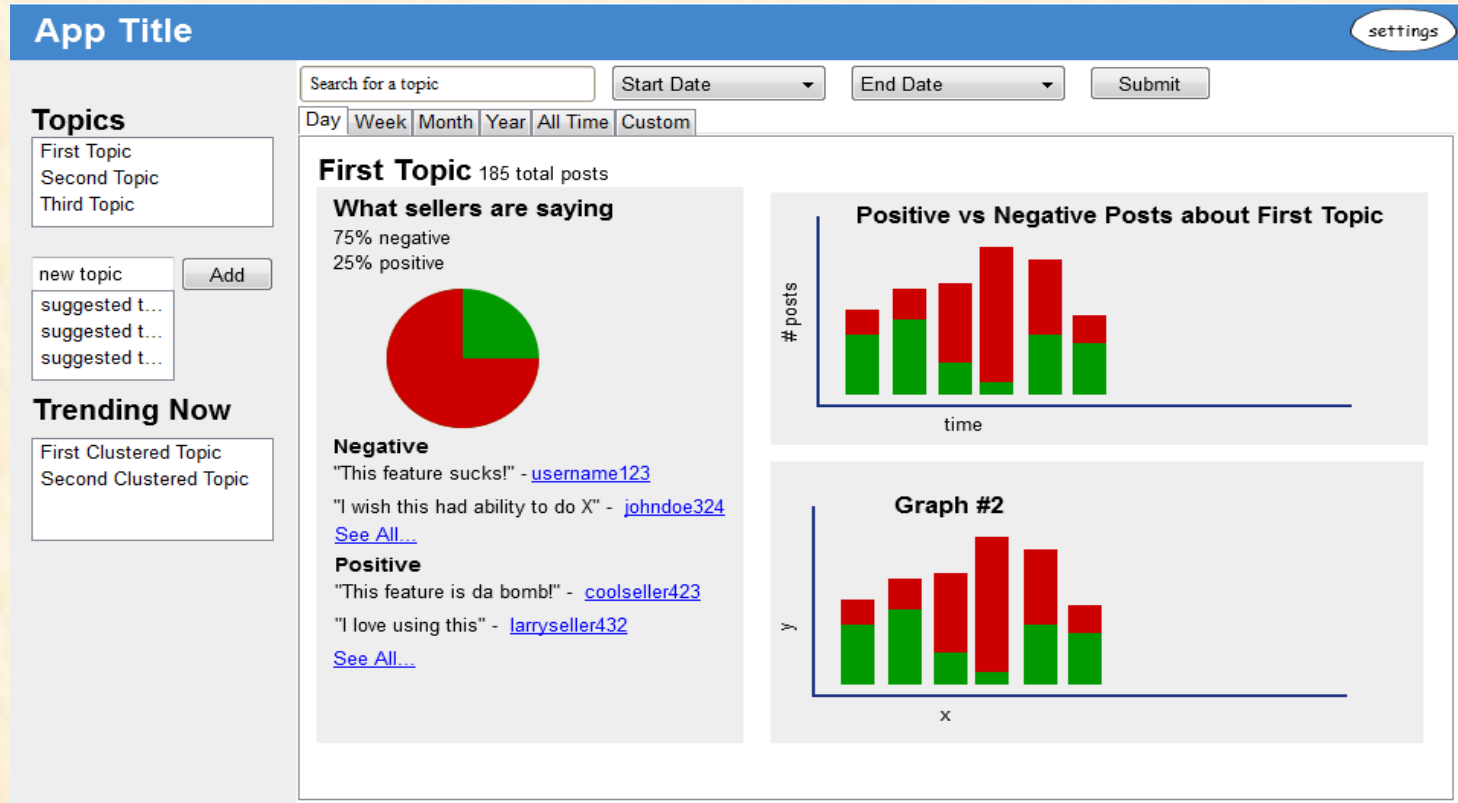


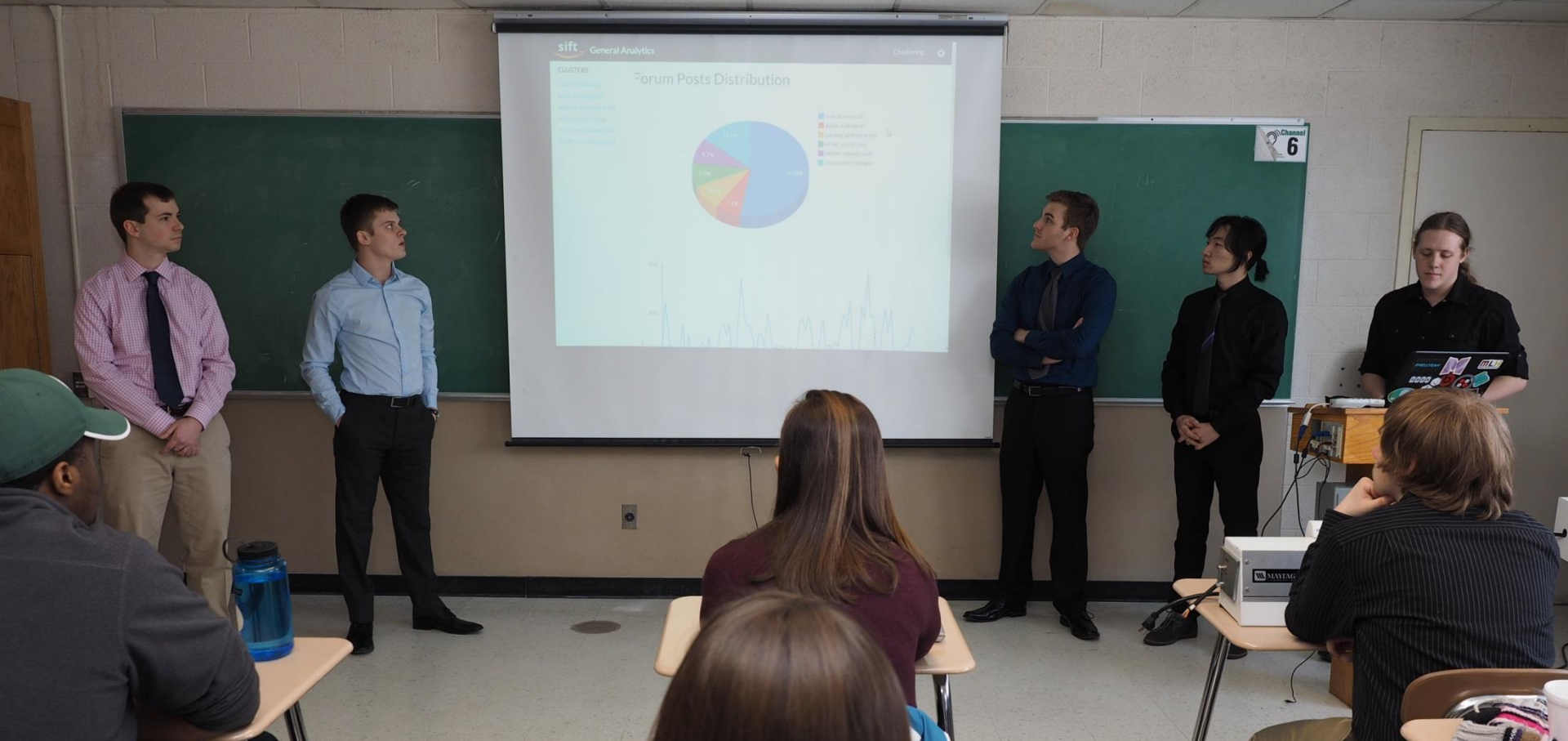


Team Amazon Project Plan Presentation

Team Amazon Project Plan Presentation

Screen Mockup

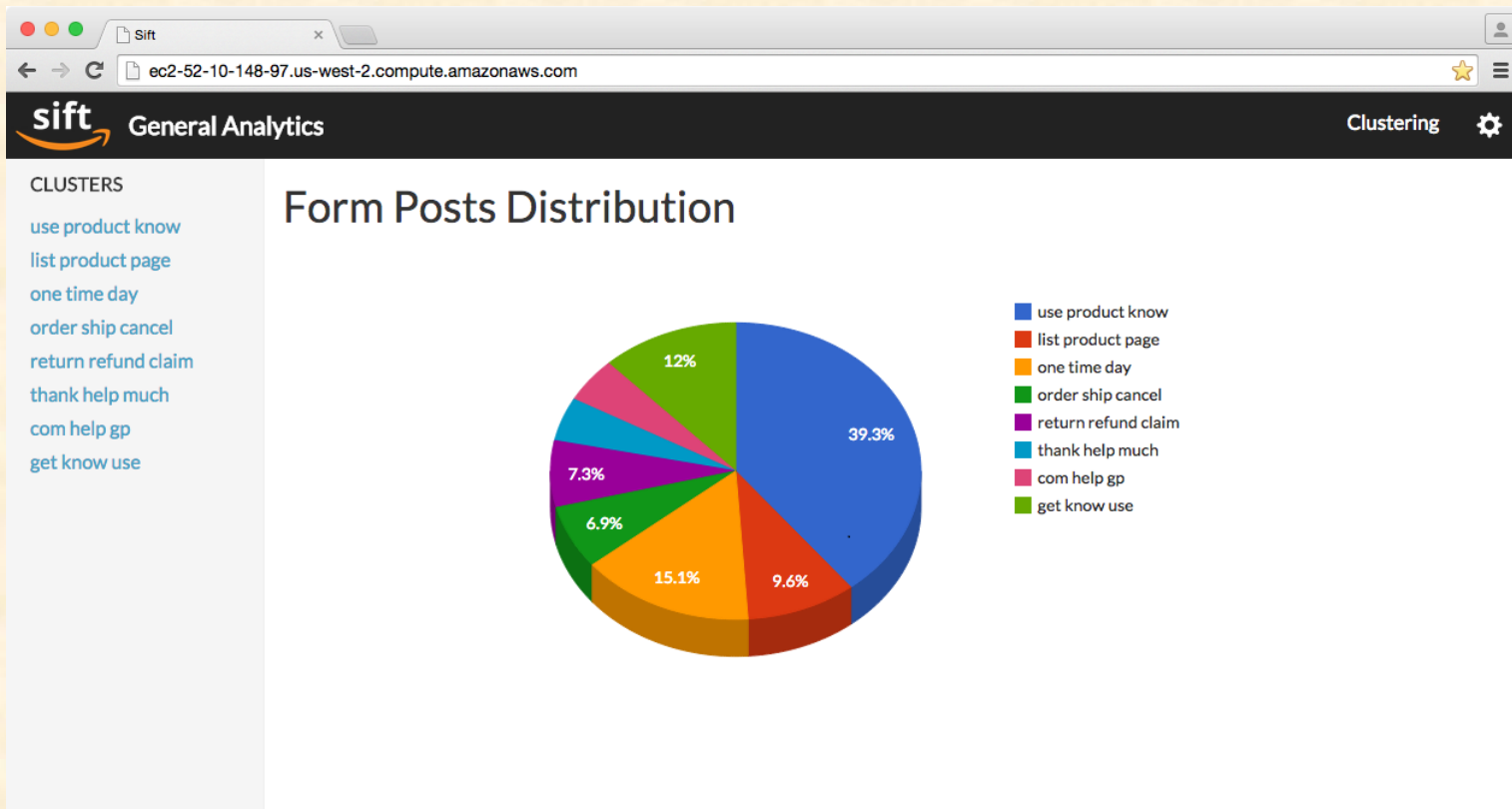




Team Amazon Alpha Presentation

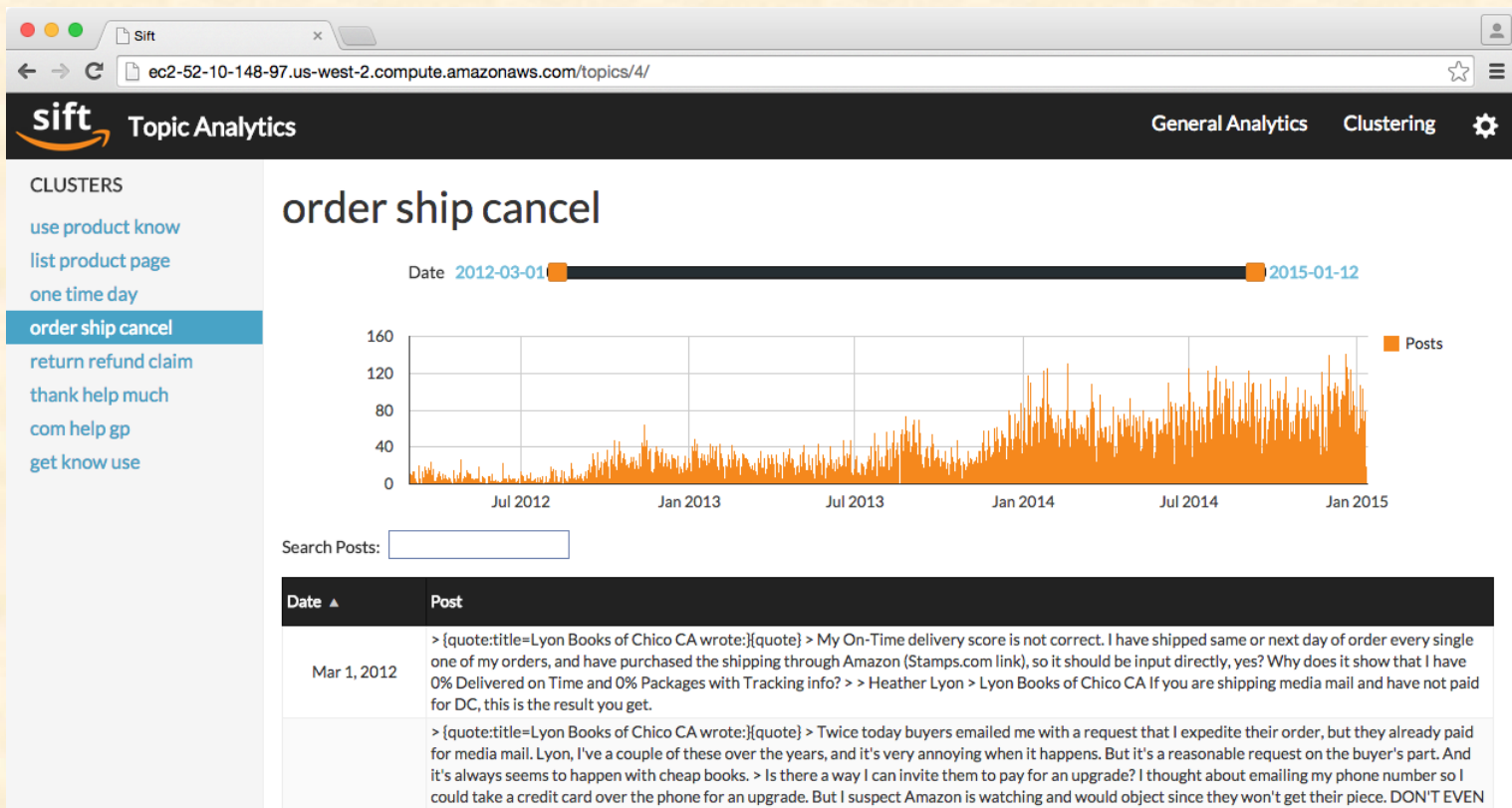
Team Amazon Alpha Presentation

General Analytics



Team Amazon Alpha Presentation

Cluster Details

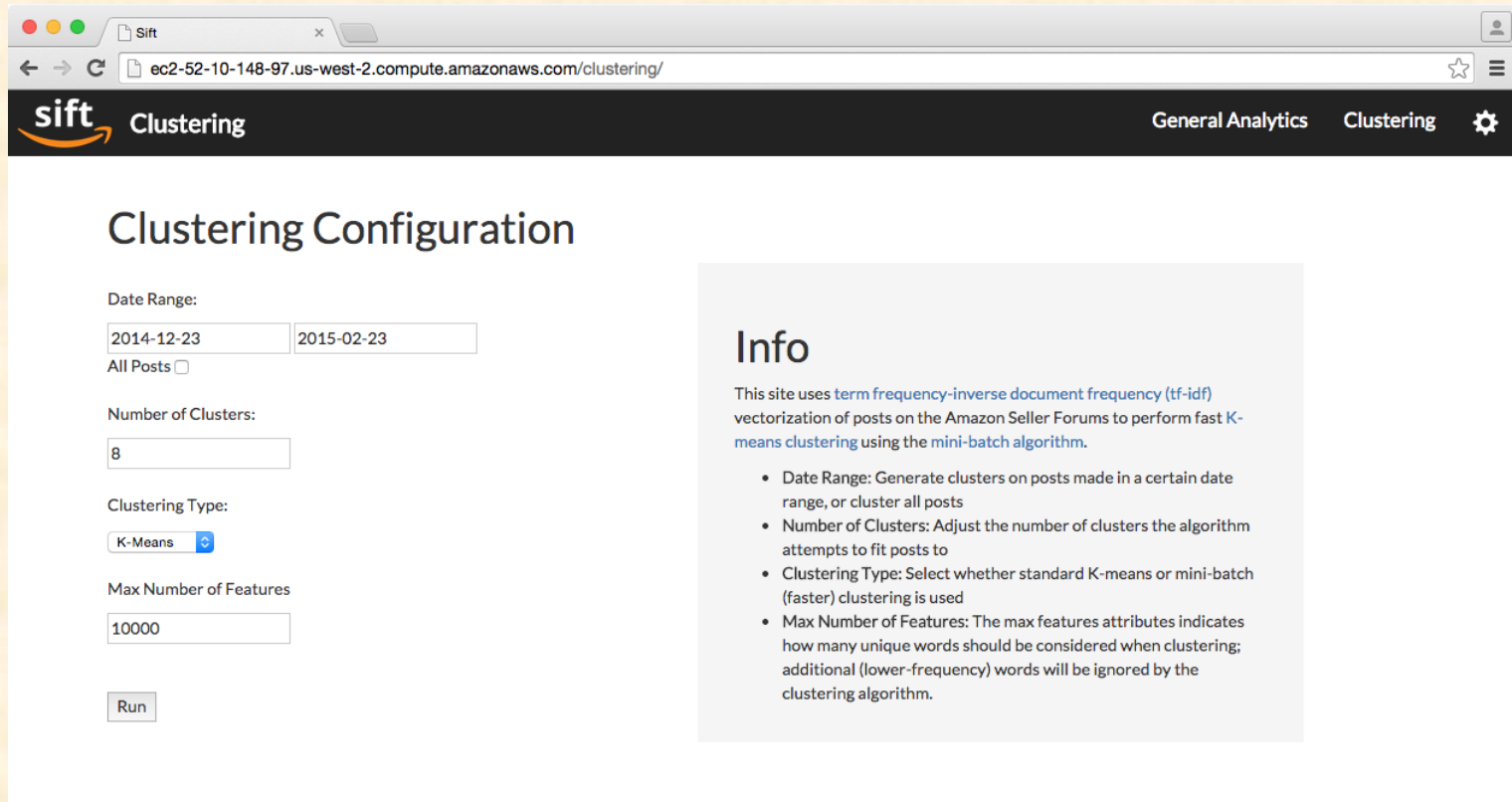




Team Amazon Alpha Presentation

Team Amazon Alpha Presentation

Clustering Configuration



The screenshot shows a web browser window with the URL `ec2-52-10-148-97.us-west-2.compute.amazonaws.com/clustering/`. The page has a dark header with the 'sift' logo and 'Clustering' text, and navigation links for 'General Analytics', 'Clustering', and a settings icon. The main content area is titled 'Clustering Configuration' and contains several input fields and a 'Run' button. To the right of the configuration fields is an 'Info' box with explanatory text and a bulleted list of parameters.

sift Clustering General Analytics Clustering ⚙️

Clustering Configuration

Date Range:

2014-12-23 2015-02-23

All Posts ☐

Number of Clusters:

8

Clustering Type:

K-Means

Max Number of Features

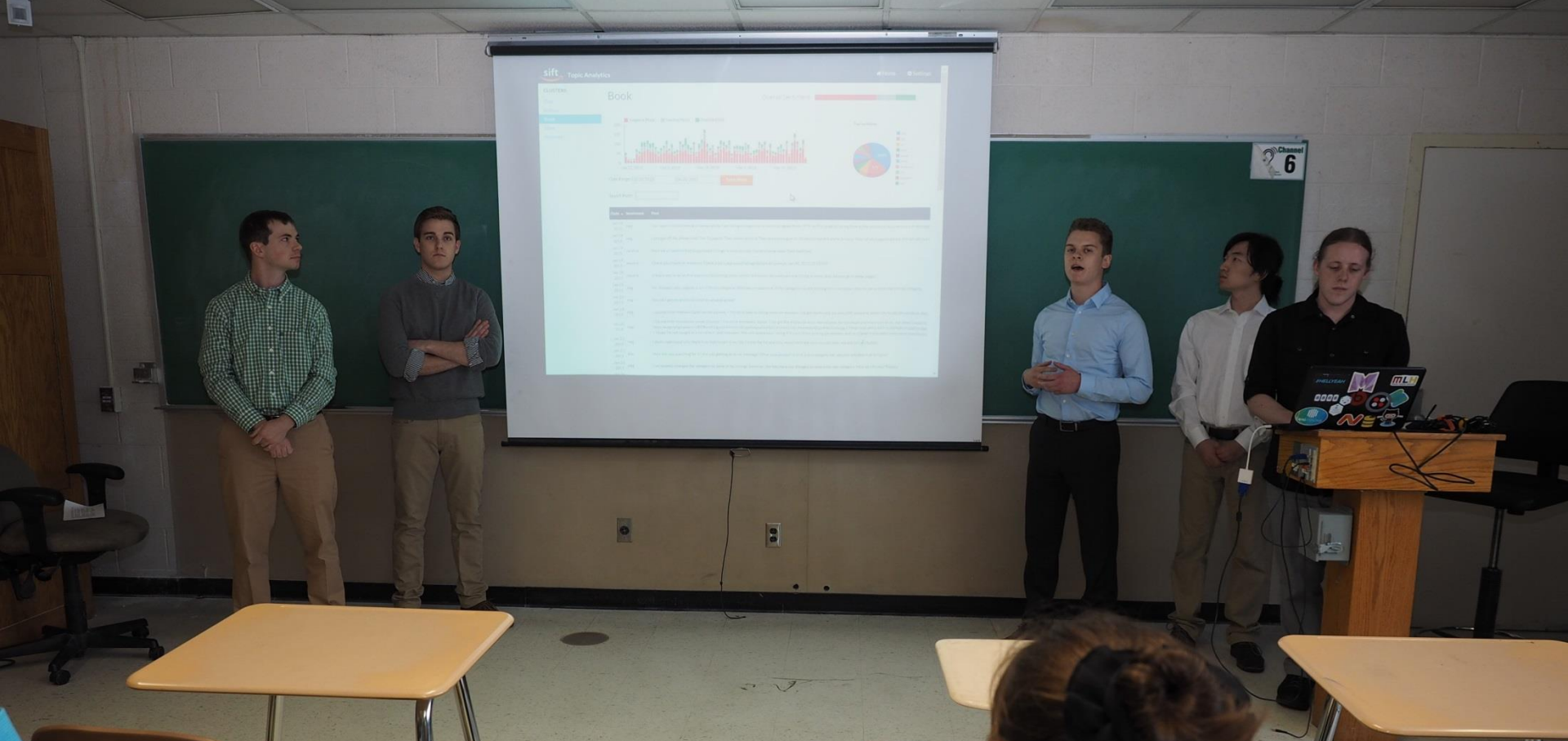
10000

Run

Info

This site uses [term frequency-inverse document frequency \(tf-idf\)](#) vectorization of posts on the Amazon Seller Forums to perform fast [K-means clustering](#) using the [mini-batch algorithm](#).

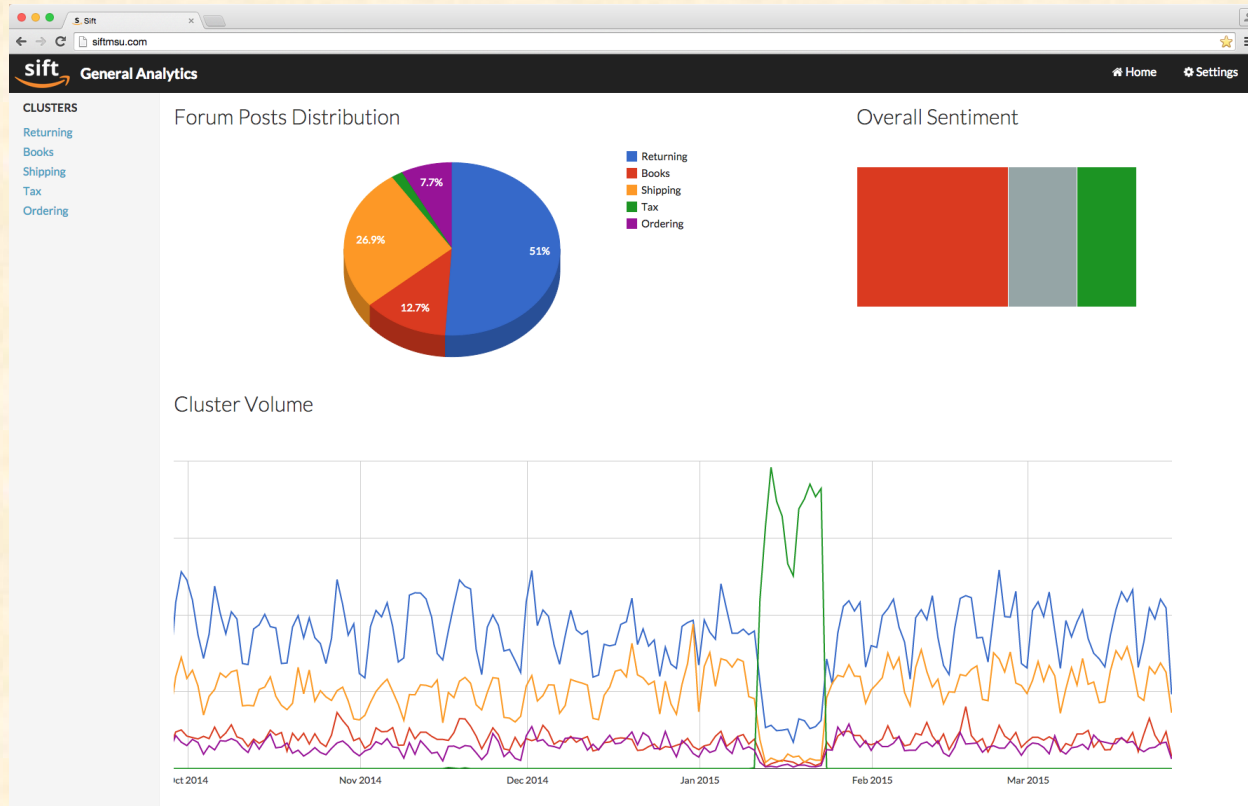
- Date Range: Generate clusters on posts made in a certain date range, or cluster all posts
- Number of Clusters: Adjust the number of clusters the algorithm attempts to fit posts to
- Clustering Type: Select whether standard K-means or mini-batch (faster) clustering is used
- Max Number of Features: The max features attributes indicates how many unique words should be considered when clustering; additional (lower-frequency) words will be ignored by the clustering algorithm.



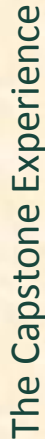
Team Amazon Beta Presentation

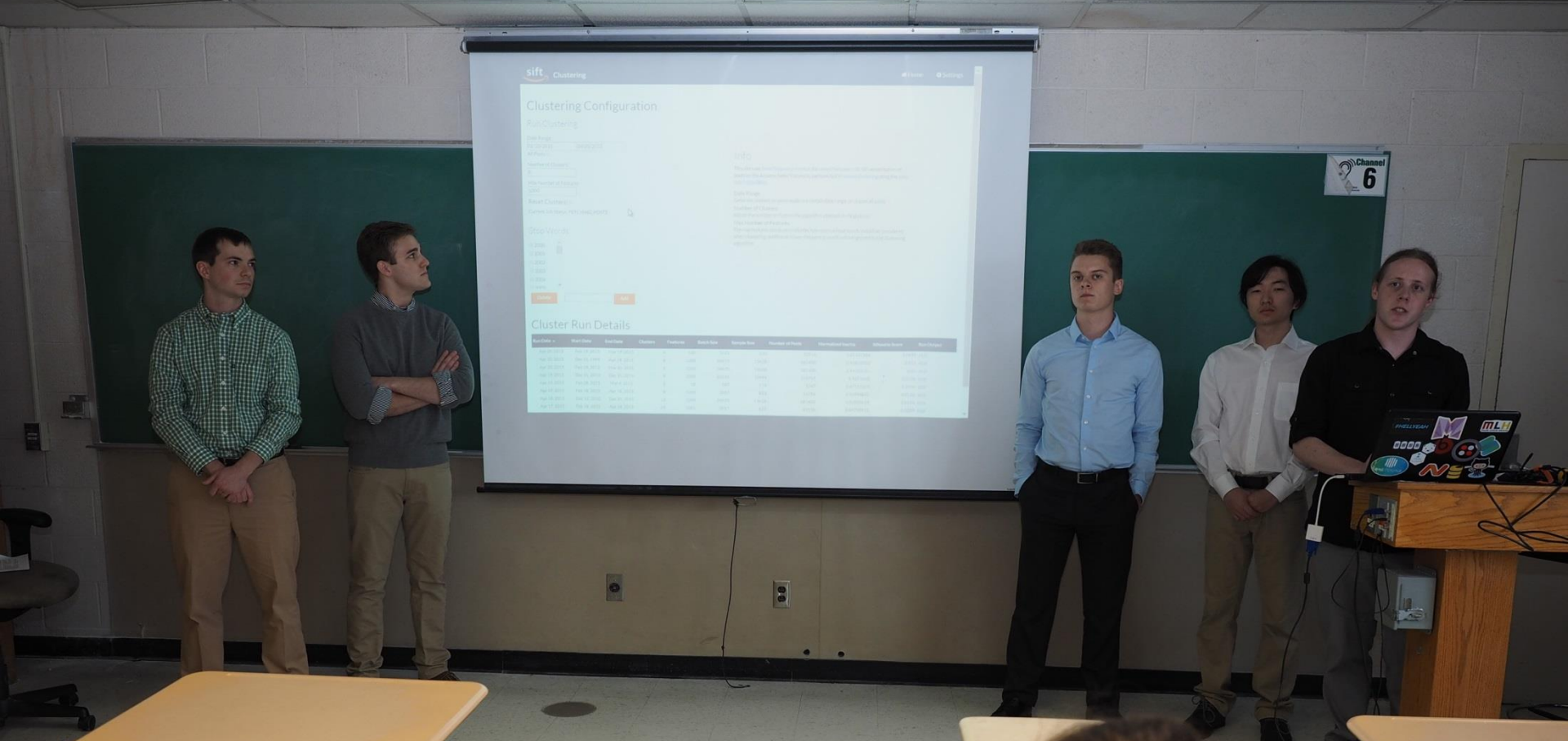
Team Amazon Beta Presentation

General Analytics



Cluster Details





Team Amazon Beta Presentation

Settings: Cluster Configuration

The Capstone Experience





Team Amazon
Design Day

The Capstone Experience

Team Auto-Owners

Department of Computer Science and Engineering
Michigan State University
Spring 2015



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Auto-Owners Insurance

Life Home Car Business

The "No Problem" People®

**Auto-Owners Insurance**[Customer Center](#) | [Find a Career with Us](#)[OUR PRODUCTS](#)[CORPORATE INFORMATION](#)[CUSTOMER CLAIMS](#)[Find](#)[Find a Local Agency](#)[Find](#)[or Search by Address](#)

Quality Coverage in 26 States

[Customer Log In](#)

HIGHEST CUSTOMER SATISFACTION

"HIGHEST CUSTOMER SATISFACTION AMONG
AUTO INSURERS IN THE NORTH CENTRAL REGION"

[Click for more information.](#)

Life Insurance
Protecting your family

Life insurance, annuities, long term

Home Insurance
Property and liability

Regardless of which homeowners

Car Insurance
Security while on the road

"No Deductible"® claims are for with

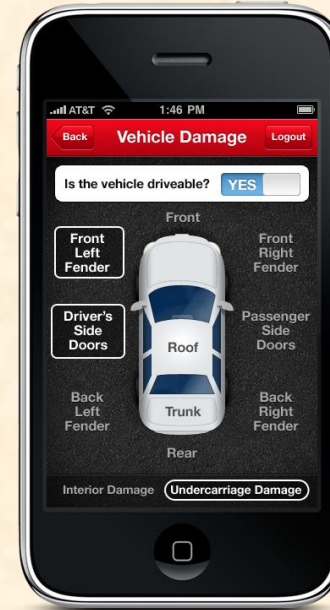
Business Insurance
Guarding your investment

We insure a variety of businesses.

Team Auto-Owners Project Overview

Claims First Notice of Loss Application

- Functionalities
 - Enable Submission of Loss Notice Information
 - By Customer or Independent Agent
 - Using Mobile Device
- Features
 - Mobile Apps
 - Support Both Android and iPhone/iPad
 - Handle Various Loss Types
 - Support Multimedia Input (Text, Voice, Photo, Video)
 - Web Apps
 - For Independent Agents
 - Sign Up
 - Customize Experience
 - For Auto-Owners Associates
 - Administer System
 - Generate Reports
- Technologies
 - Apple iPhone and iPad Development (Objective-C, Xcode)
 - Google Android Development (Java)
 - Web Development (CSS, HTML, PHP, JavaScript)
 - Relational Databases



Lansing, Michigan

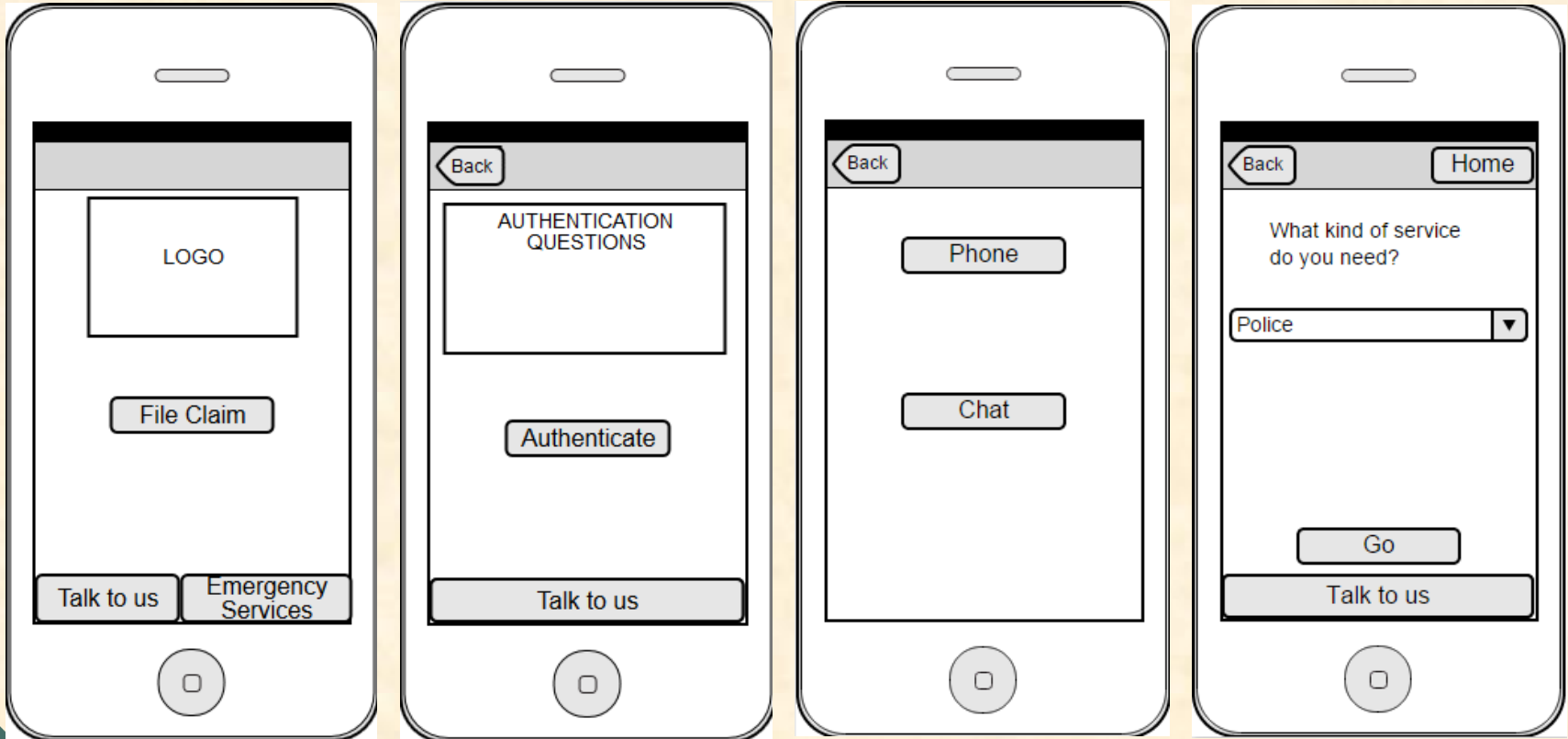


Team Auto-Owners

David Kircos, Anthony Tesorero, Alex Morton, Si Wang

Team Auto-Owners Project Plan Presentation

Screen Mockups

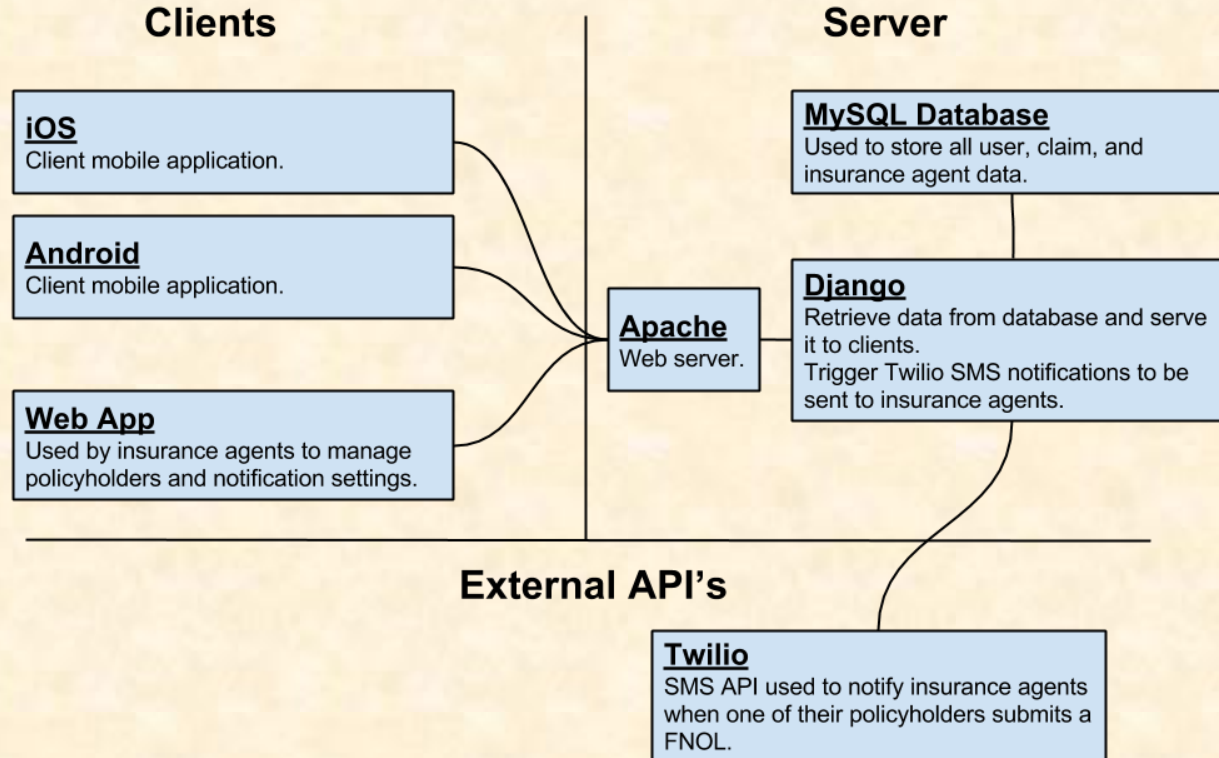




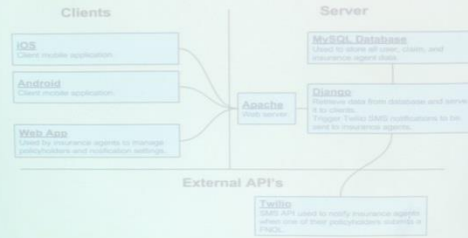
Team Auto-Owners Project Plan Presentation

Team Auto-Owners Project Plan Presentation

Architecture Diagram



System Architecture



Team Auto-Owners
Project Plan Presentation

Team Auto-Owners Project Plan Presentation

Screen Mockups

The image displays four sequential screen mockups for a mobile application, each within a smartphone frame. Each screen features a 'Back' button in the top left corner and a 'Talk to us' button at the bottom.

- Screen 1:** Titled 'What kind of claim do you want to file?'. It contains two buttons: 'Auto' and 'Home'.
- Screen 2:** Titled 'Tap all parts of car that are damaged'. It features a central 'CAR IMAGE' placeholder with labels for 'Driver's side door', 'Passenger's side door', and 'Rear'. Below the image are 'Confirm' and 'Skip' buttons.
- Screen 3:** Titled 'Your claim will NOT be sent until you click Submit'. It includes input fields for 'Add photo...', 'Add audio...', and 'Add text...'. Below these are buttons for 'Other people involved' and 'Date Time of Accident', followed by a 'Submit' button.
- Screen 4:** Titled 'Your claim has been submitted. Would you like an email confirmation?'. It shows an email address 'DefaultEmail@gmail.com' in a text field, with 'Yes' and 'No' buttons below it.



Team Auto-Owners Alpha Presentation

Team Auto-Owners Alpha Presentation

iPhone Home Screen

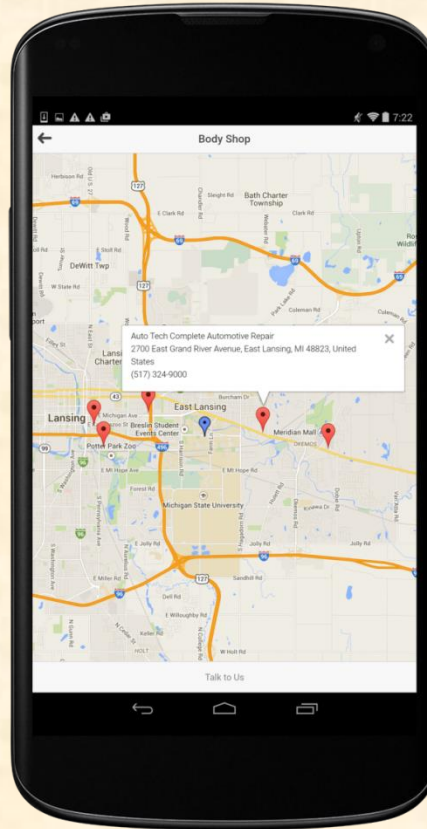


The Capstone Experience



Team Auto-Owners Alpha Presentation

Android Emergency Services





Team Auto-Owners Alpha Presentation

Team Auto-Owners Alpha Presentation

Notification Preferences

Dashboard - Claim View x

localhost:8000/ao/dashboard/policies/

Anthony's Agency - autoowners Profile

Claims

Policies and Notifications

Reports

Dashboard

Always Receive Notifications for:

☐ Hood Damage ☒ Theft ☐ Fire Damage ☐ House Missing ☒ Water Damage

Policies

Policy Holder	Policy #	Claims	Notification Detail	Notification Type	Notified for Damages
John Doe	87654321	Show Claims	<input checked="" type="radio"/> Full <input type="radio"/> Minimum <input type="radio"/> None	<input type="radio"/> Text <input type="radio"/> email <input checked="" type="radio"/> Voicemail	<input checked="" type="checkbox"/> Hood Damage <input checked="" type="checkbox"/> Theft <input checked="" type="checkbox"/> Fire Damage <input checked="" type="checkbox"/> House Missing <input checked="" type="checkbox"/> Water Damage
anthony tesorero	12345678	Show Claims	<input type="radio"/> Full <input type="radio"/> Minimum <input checked="" type="radio"/> None	<input type="radio"/> Text <input type="radio"/> email <input type="radio"/> Voicemail	<input type="checkbox"/> Hood Damage <input type="checkbox"/> Theft <input type="checkbox"/> Fire Damage <input type="checkbox"/> House Missing <input type="checkbox"/> Water Damage

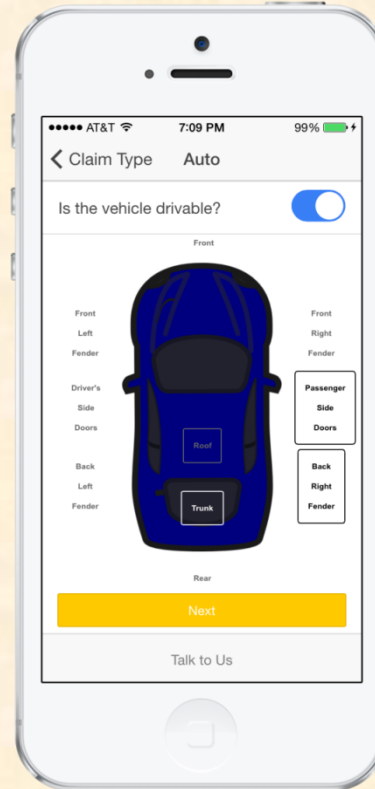




Team Auto-Owners Beta Presentation

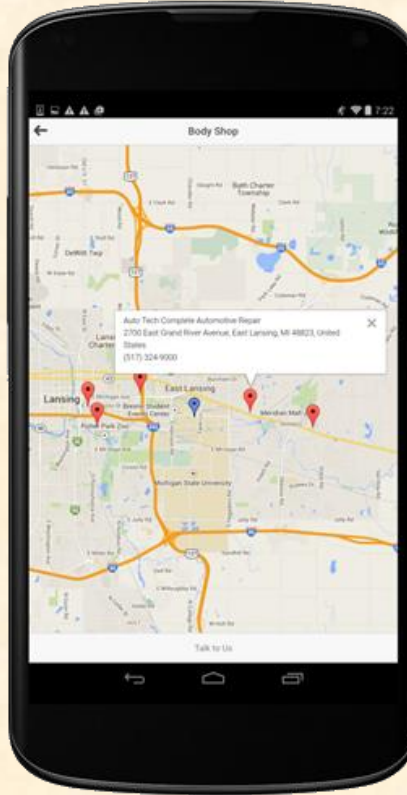
Team Auto-Owners Beta Presentation

iPhone Auto Claim



Team Auto-Owners Beta Presentation

Android Emergency Service Map





Team Auto-Owners Beta Presentation

Web App Notification Preferences

Dashboard - Claim View

35.9.22.107/ao/dashboard/policies/

Guest

Auto Owners Agency - autoowners

Profile

Claims

Notifications

Reports

Dashboard

autoowners Global Notifications

Notification detail: Minimum

Notification type: Text

Natures of Loss:

- ☒ collision
- ☒ comprehensive
- ☐ bodily injury
- ☒ property damage
- ☐ RTS
- ☐ dwelling
- ☐ contents
- ☐ liability
- ☐ All

Policy Based Notifications

Show 10 entries

Search:

Policy Holder	Policy #	Set/View Preferences
Adaline Kling	18362513	Change Preferences
Adrienne Kohler	85651004	Change Preferences
Agatha Haley	53972768	Change Preferences
Aiden Terry	77248139	Change Preferences
Alaina Mosciski	56046020	Change Preferences
Alba Rogahn	93370894	Change Preferences
Alejandra Fahey	95148559	Change Preferences



Team Auto-Owners
Design Day

MICHIGAN STATE
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The Capstone Experience

Team Boeing

Department of Computer Science and Engineering
Michigan State University
Spring 2015



*From Students...
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Search

[BA 126.23 \(+0.56\)](#)

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[Products](#) ▾

[Businesses/Services](#) ▾

[Media](#) ▾

[Investors](#) ▾

[Careers](#) ▾

[Global](#) ▾

Defense, Space & Security



Growler: Our warfighters don't leave home without one (Video)

The Growler's capabilities provide critical protection to our warfighters. [More >>](#)

Team Boeing Project Overview

Business Developer's Electronic Sales Bag

- Functionalities
 - Transform Boeing Business Developer's Business Processes
 - From Multiple Paper-Based Systems to Unified Tablet-Based System
 - Like Pilot's Electronic Flight Bag
- Features
 - Provide Immediate Electronic Access
 - To Everything
 - From Anywhere
 - At Any Time
 - Manage Entire Business Developer's Work Cycle
 - Customer Information
 - Boeing Product "Cards"
 - Huthwaite Call Plans
 - Boeing Program Presentations
 - Handle Multimedia Documentation (Input)
- Technologies
 - Microsoft Surface Pro
 - Web Development (CSS, HTML, PHP, JavaScript)
 - Responsive Design
 - Relational Databases





Team Boeing

Mike Gerard, Andy Lieblich, Jourdan West, Dan Roman

Team Boeing Project Plan Presentation

Screen Mockup



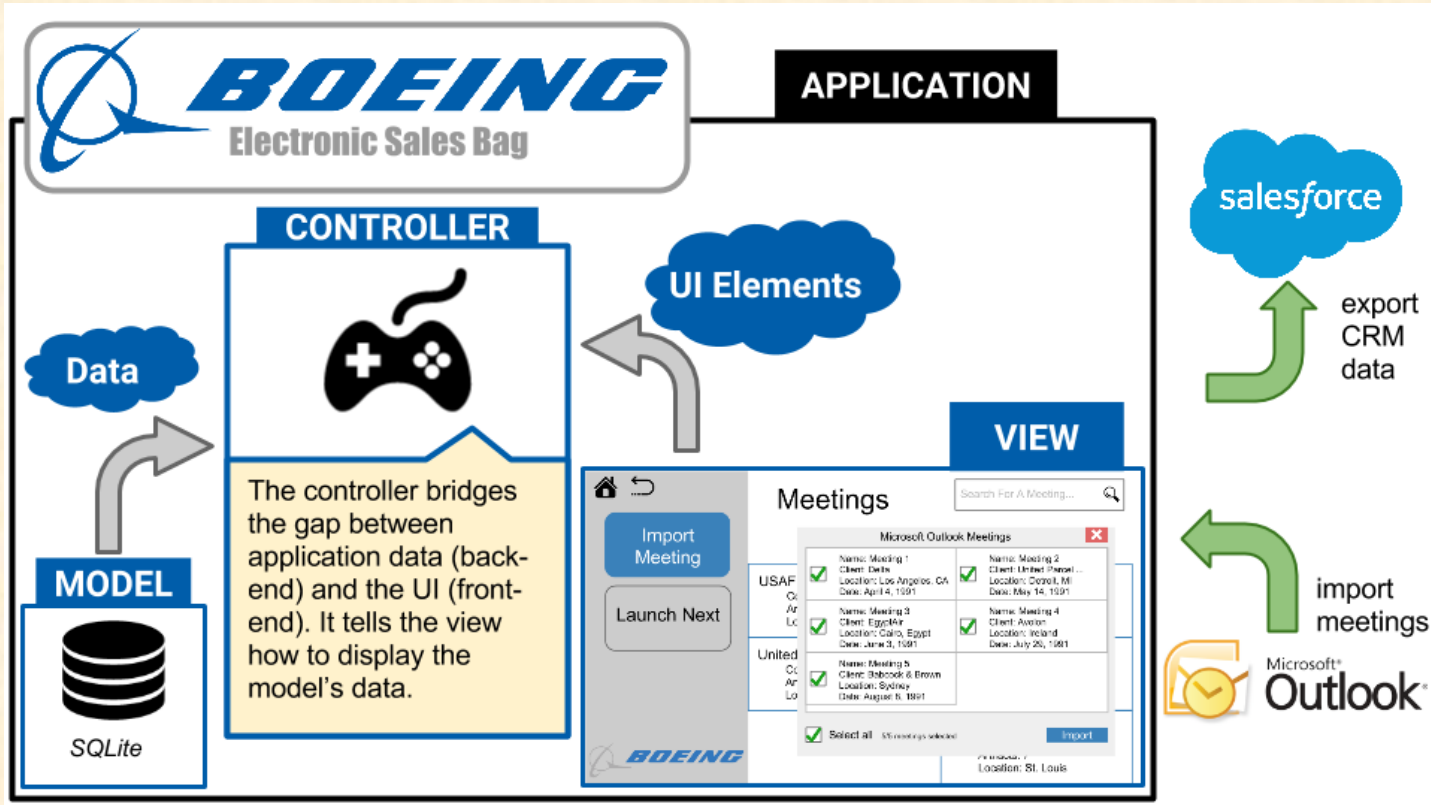


Team Boeing Project Plan Presentation

Team Boeing

Project Plan Presentation

Architecture Diagram







Team Boeing Project Plan Presentation


Team Boeing Project Plan Presentation

Screen Mockup




Import Meeting

Launch Next



Meetings

Search For A Meeting...

USAF
Co
Ar
Lo

United
Co
Ar
Lo

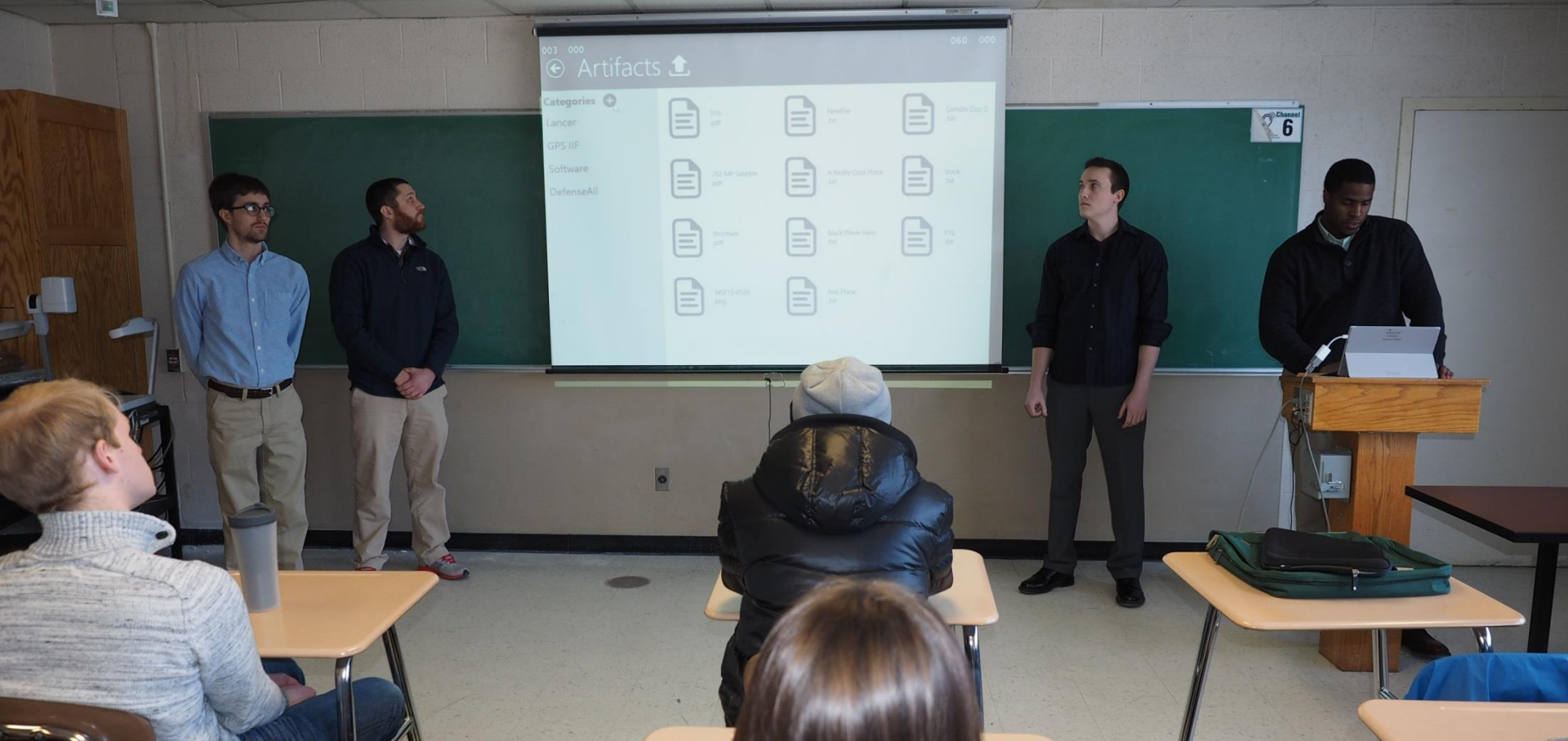
Microsoft Outlook Meetings

<input checked="" type="checkbox"/>	Name: Meeting 1 Client: Delta Location: Los Angeles, CA Date: April 4, 1991	<input checked="" type="checkbox"/>	Name: Meeting 2 Client: United Parcel ... Location: Detroit, MI Date: May 14, 1991
<input checked="" type="checkbox"/>	Name: Meeting 3 Client: EgyptAir Location: Cairo, Egypt Date: June 3, 1991	<input checked="" type="checkbox"/>	Name: Meeting 4 Client: Avolon Location: Ireland Date: July 29, 1991
<input checked="" type="checkbox"/>	Name: Meeting 5 Client: Babcock & Brown Location: Sydney Date: August 8, 1991		

☒ Select all 5/5 meetings selected

Import

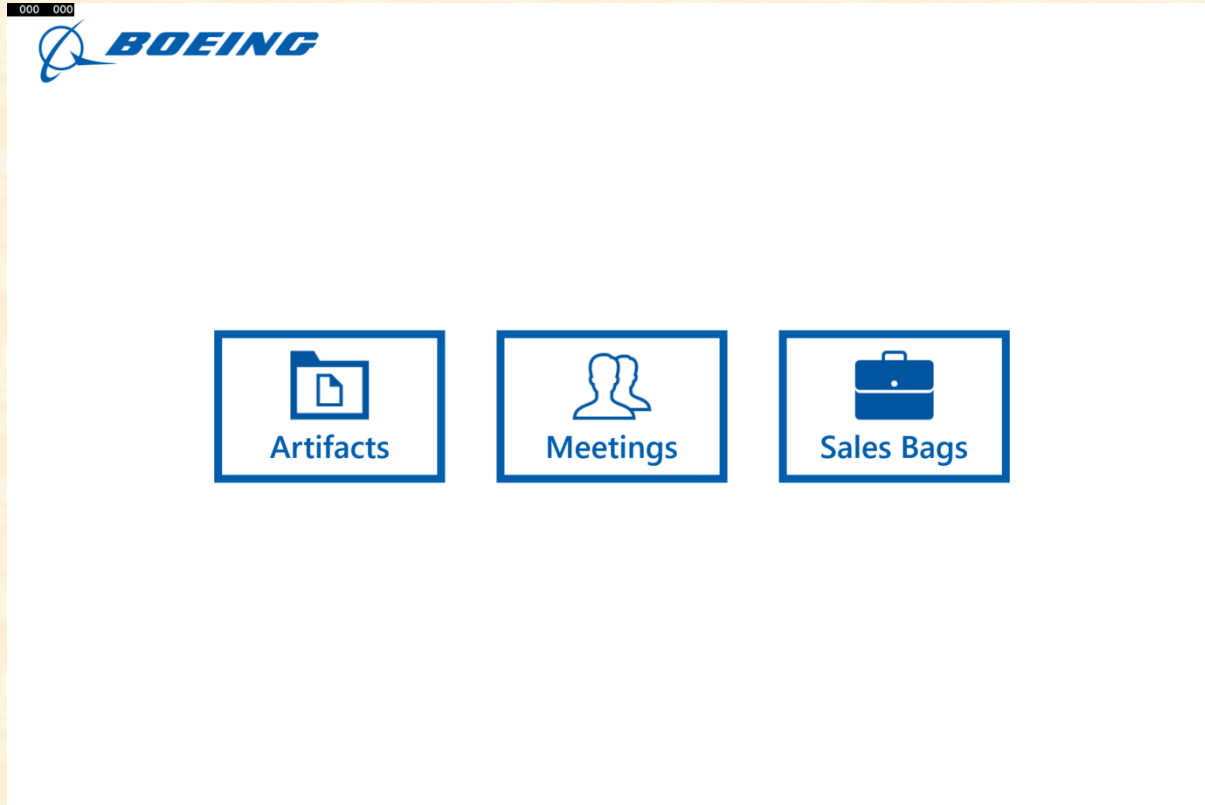
Location: St. Louis



Team Boeing Alpha Presentation

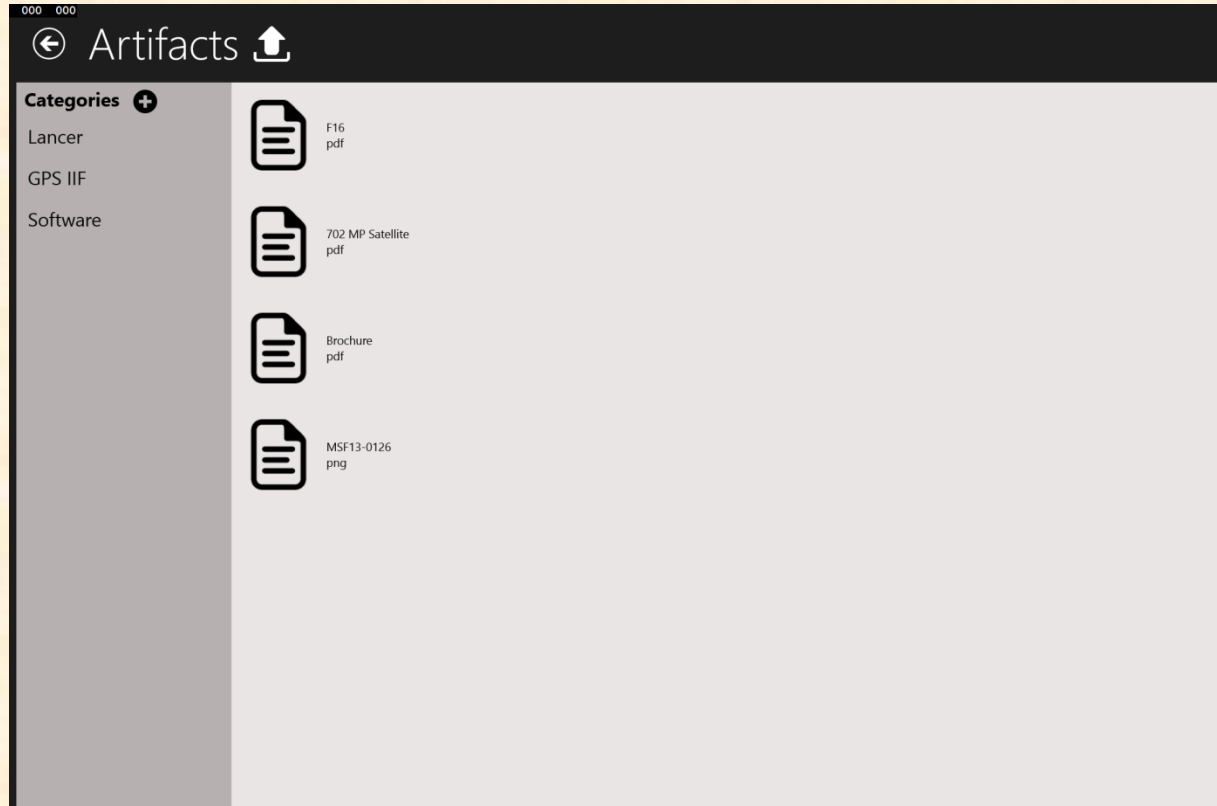
Team Boeing Alpha Presentation

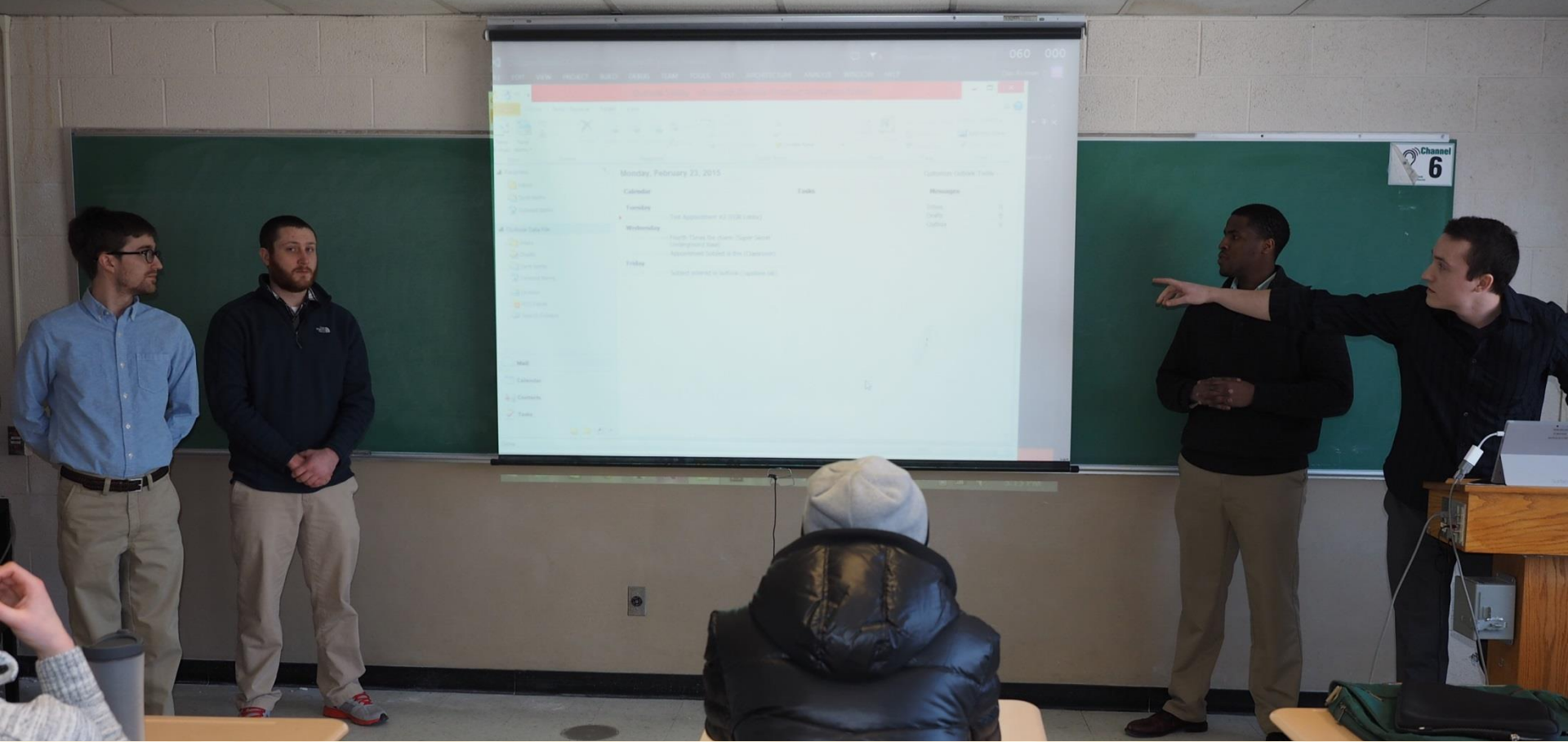
Home Page



Team Boeing Alpha Presentation

Artifacts Page

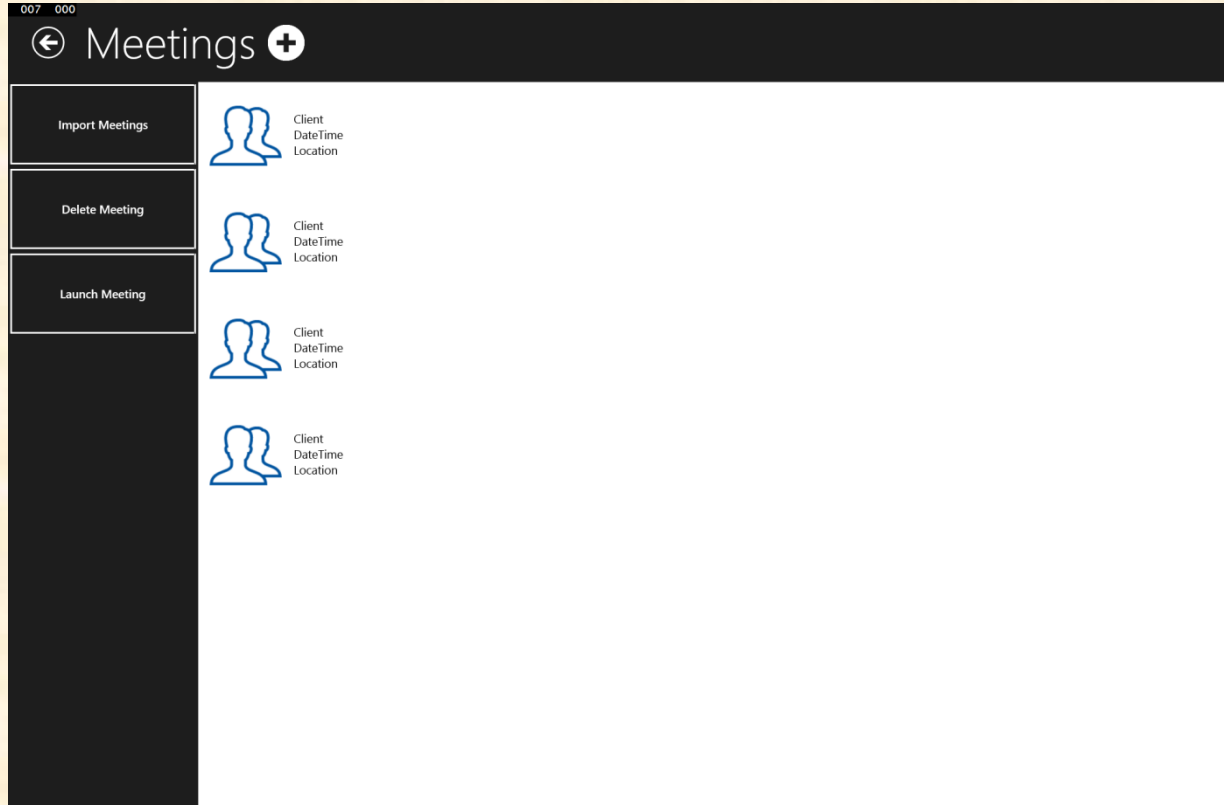


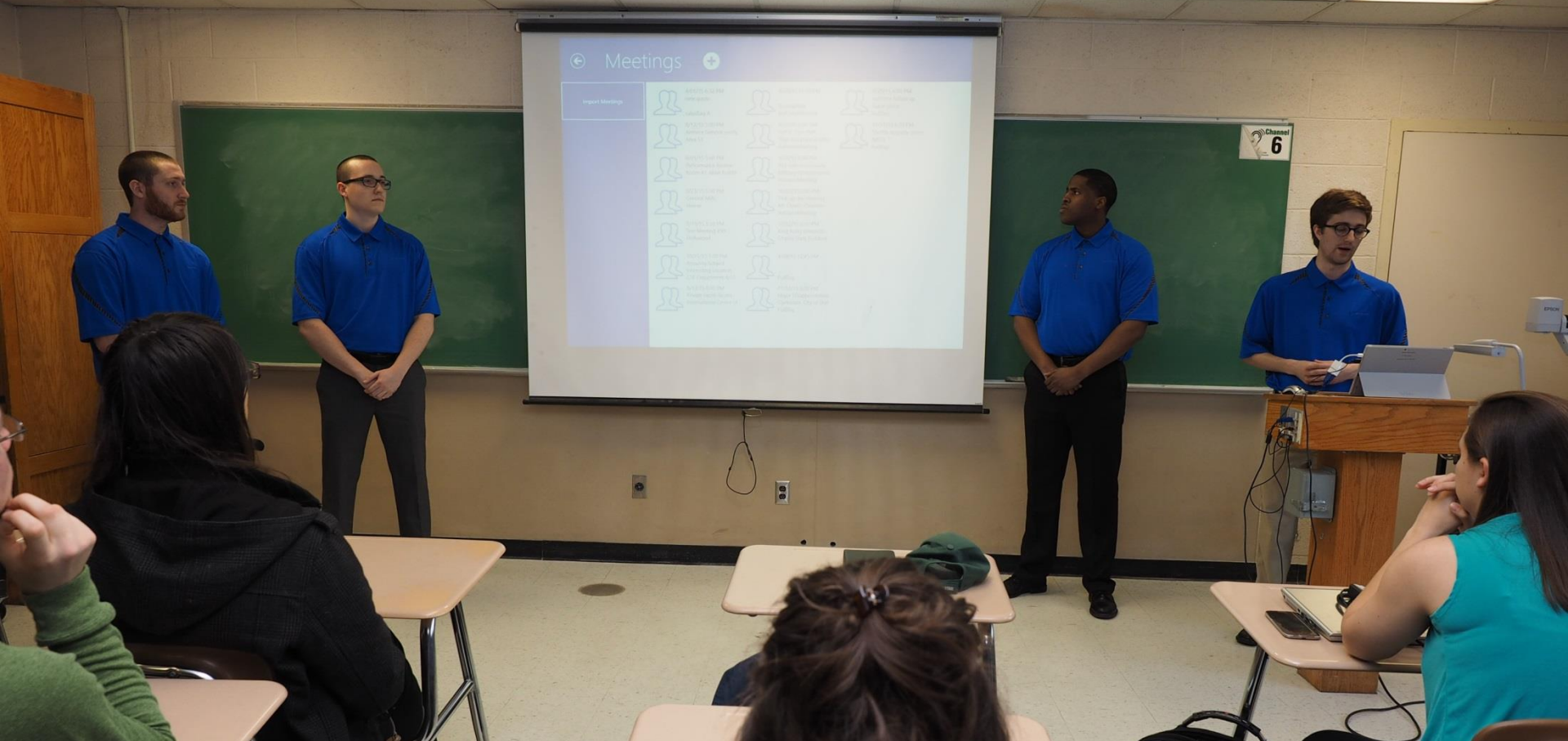


Team Boeing Alpha Presentation

Team Boeing Alpha Presentation

Meetings Page





Team Boeing Beta Presentation

Team Boeing Beta Presentation

Main View



Team Boeing Beta Presentation

Artifact View

← Artifacts

New

Edit

Some Folder

1 Artifacts.

CategoryA

0 Artifacts.

CategoryB

0 Artifacts.

CategoryC

3 Artifacts.

DemoASdd

2 Artifacts.

737Com

737Com.txt

747-400

747-400.png

747-400Air

747-400Air.png

787Dreamliner

787Dreamliner.png

icon stuff

BBJ.docx

C17Embedded

C17Embedded.txt

C17exterior

C17exterior.png

Chinook

Chinook.png

F16Interior

F16Interior.png

JetDocument2

TestDemop.txtfile.txt

ExportPDF


ExportPDF.pdf

245725_HRpc

245725_HRpc.pdf

BOEING

ADVANCED FLIGHT REPLAY TOOL (AFRT)



Advanced Flight Replay Tool (AFRT)

Military Training, Flight Test & Debrief

Advanced Flight Replay Tool (AFRT)

The Boeing AFRT provides high quality post-flight debrief without an ACMI pod while minimizing the time to collect data for debrief.

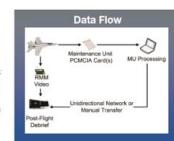
AFRT Provides:

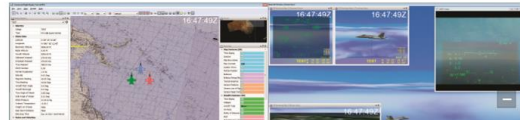
- Quick Preparation of Data
- Multiple Aircraft Support
- 2D Tactical Representations
- Aircraft Details Windows
- Multiple 3D Views (6) with Overlays and View Controls
- Synchronous Flight Video
- Debrief Recording

AFRT Features:

- Built on Boeing Training Systems Debrief Framework (Easily upgradable)
- Event Timeline including Event Details
- Debriefable 2D and 3D Content
- Color Coded Aircraft and Trails for easy Identification
- MU Multi-Flight Support (FB, HET)
- Single Stream Synchronous SSR Video
- F/A 18 A - D Support (as required)

Data Flow







The Capstone Experience



Team Boeing Beta Presentation

Team Boeing Beta Presentation

Create Meeting

 Meetings 

Import Meetings

Start Date:

April 6 2015

Start Time:

6 25 PM

End Time:

6 25 PM

Location:

Location

Description:

Description

Subject:

Subject

Create





Team Boeing
Design Day

MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Team Ford

Department of Computer Science and Engineering
Michigan State University
Spring 2015



*From Students...
...to Professionals*





Cars

Crossovers & SUVs

Trucks & Vans

Shopping Tools

Owner

Find a Dealer

Saved Items



Dream BIG

SALES EVENT



Get holiday savings
before they wrap up!

LEARN MORE ▶



FUSION



ESCAPE



FOCUS



F-150

See our



Build & Price



Team Ford

Project Overview

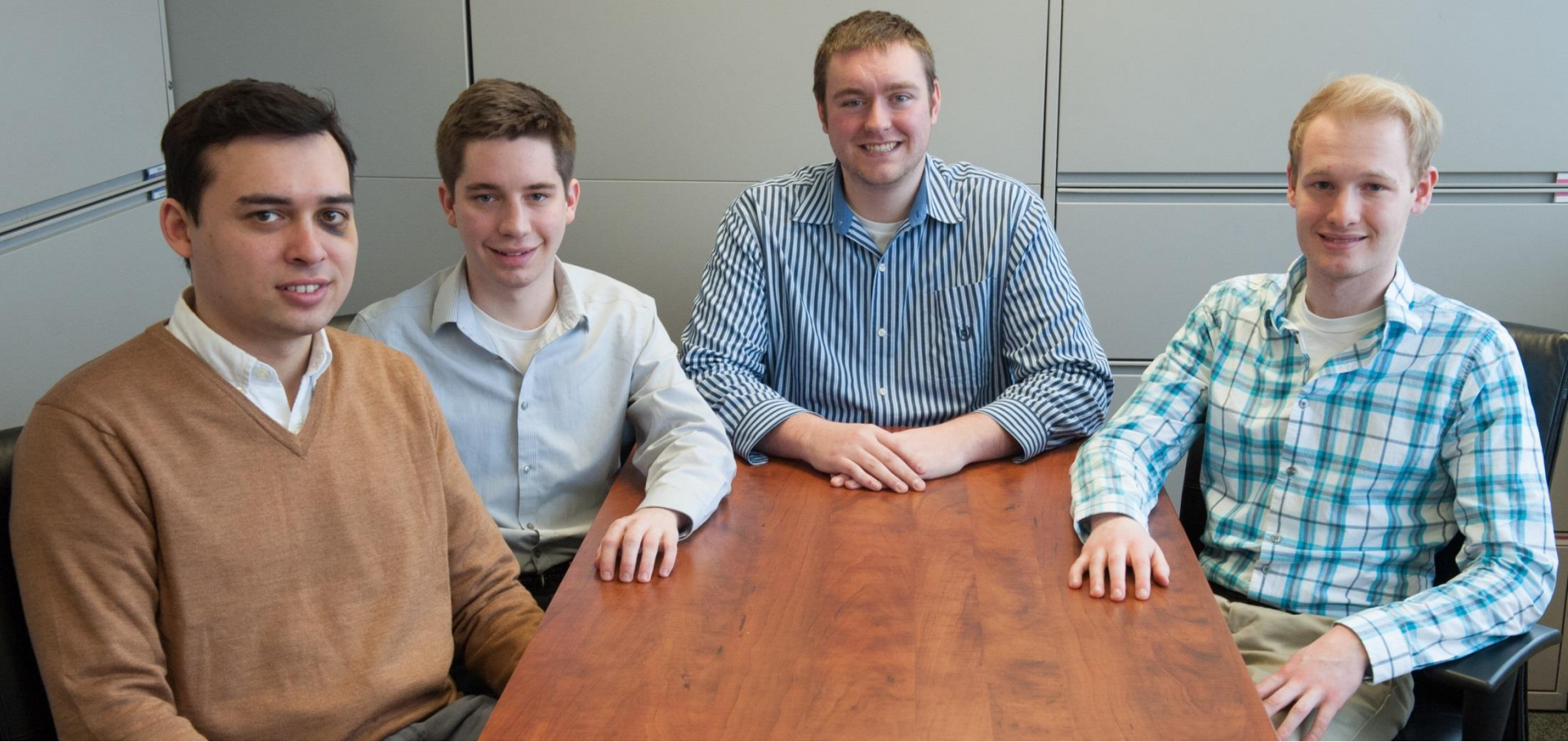
Electric Vehicle Charging Station App

- Functionalities
 - Optimize Use of Electric Vehicle Charging Stations
 - On Ford's Dearborn Campus
- Features
 - End User Native Mobile Apps
 - Locate Available Charging Station
 - Receive Push Notifications re Subscribed Availability
 - Charging Station App
 - Detect Arrival and Departure of Vehicles
 - Use BLE Beacons
 - Web Services Backend
 - Actively Monitor, Track and Manage All Stations
 - Authenticate and Manage Users
- Technologies
 - Bluetooth Low Energy (BLE) Beacons
 - iPhone and Android Development (Objective-C, Java)
 - Web Development (CSS, HTML, PHP, JavaScript)
 - Java 2 Platform Enterprise Edition (J2EE)
 - Microsoft SQL Server



Dearborn, Michigan



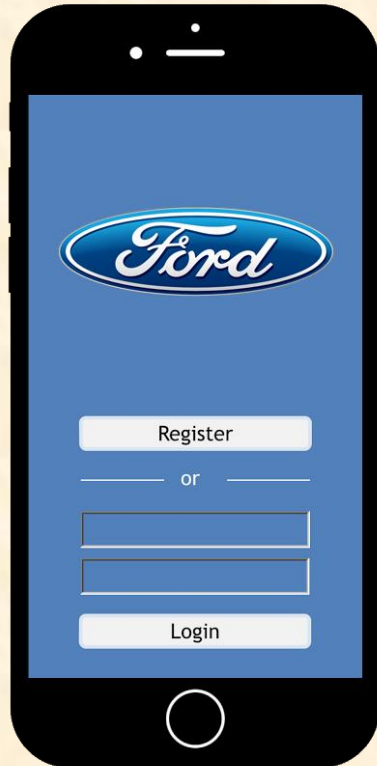


Team Ford

Ryan Switzer, Kevin Karabon, Justin Grothe, Brian Jurgess

Team Ford Project Plan Presentation

Screen Mockups

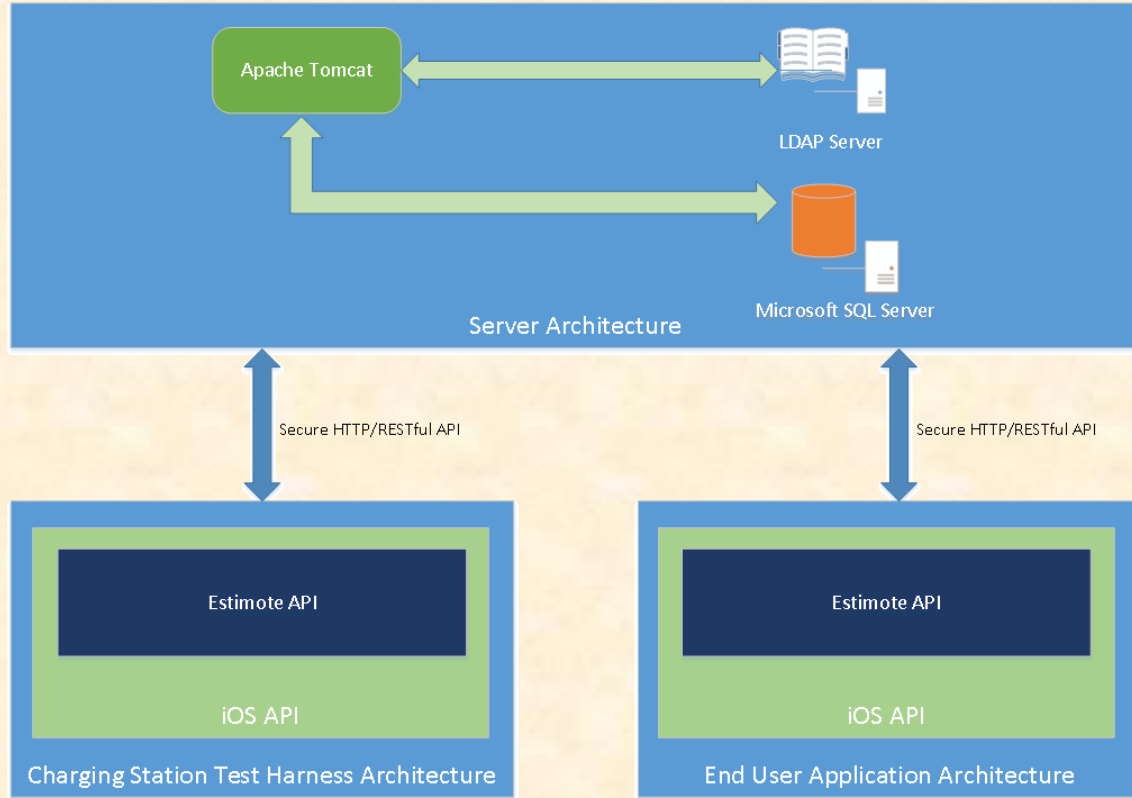




Team Ford Project Plan Presentation

Team Ford Project Plan Presentation

Architecture Diagram

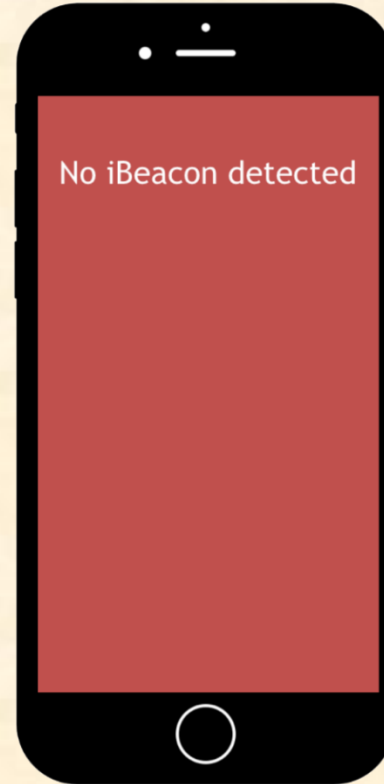
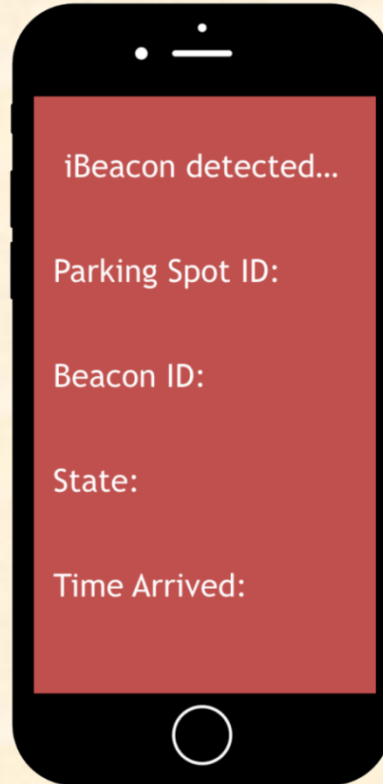


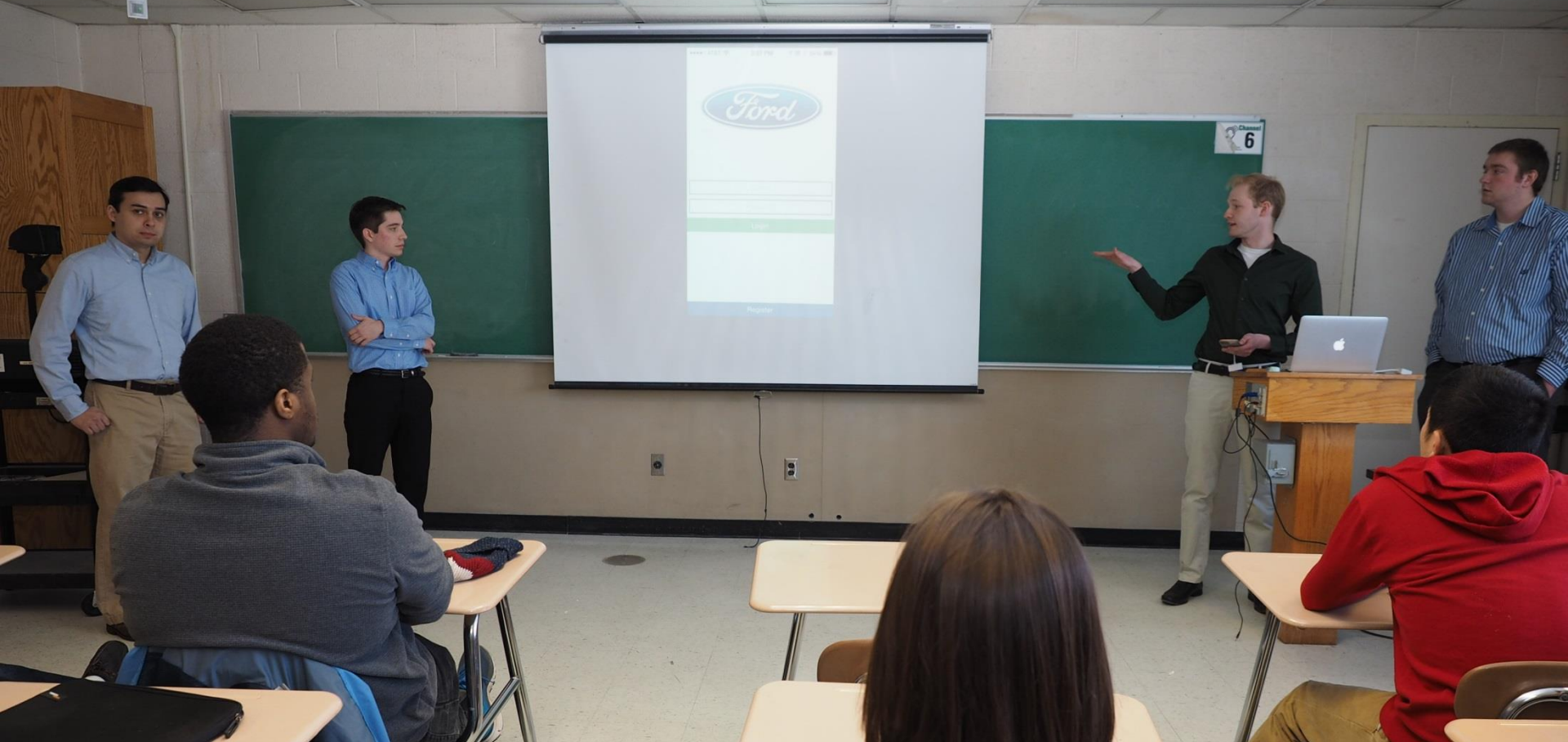


Team Ford
Project Plan Presentation

Team Ford Project Plan Presentation

Screen Mockups

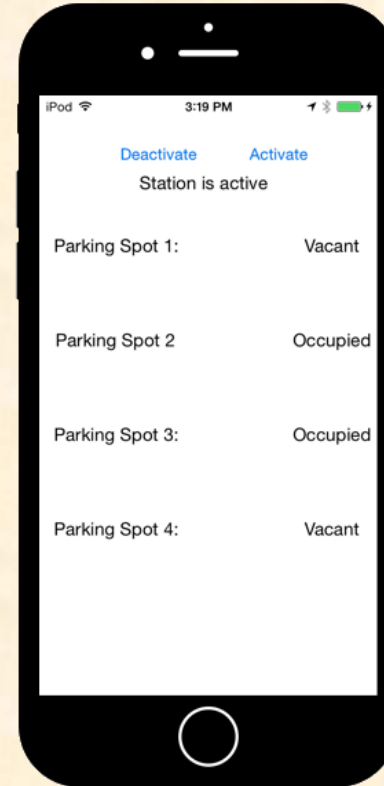
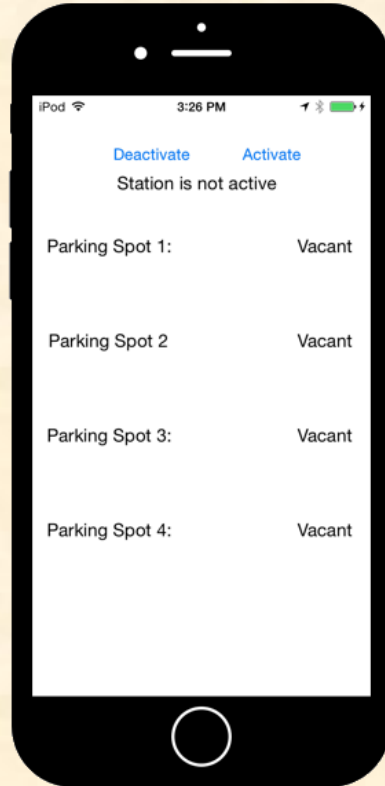




Team Ford Alpha Presentation

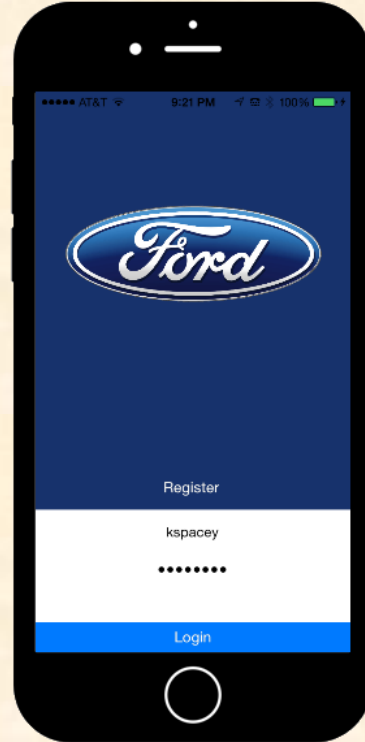
Team Ford Alpha Presentation

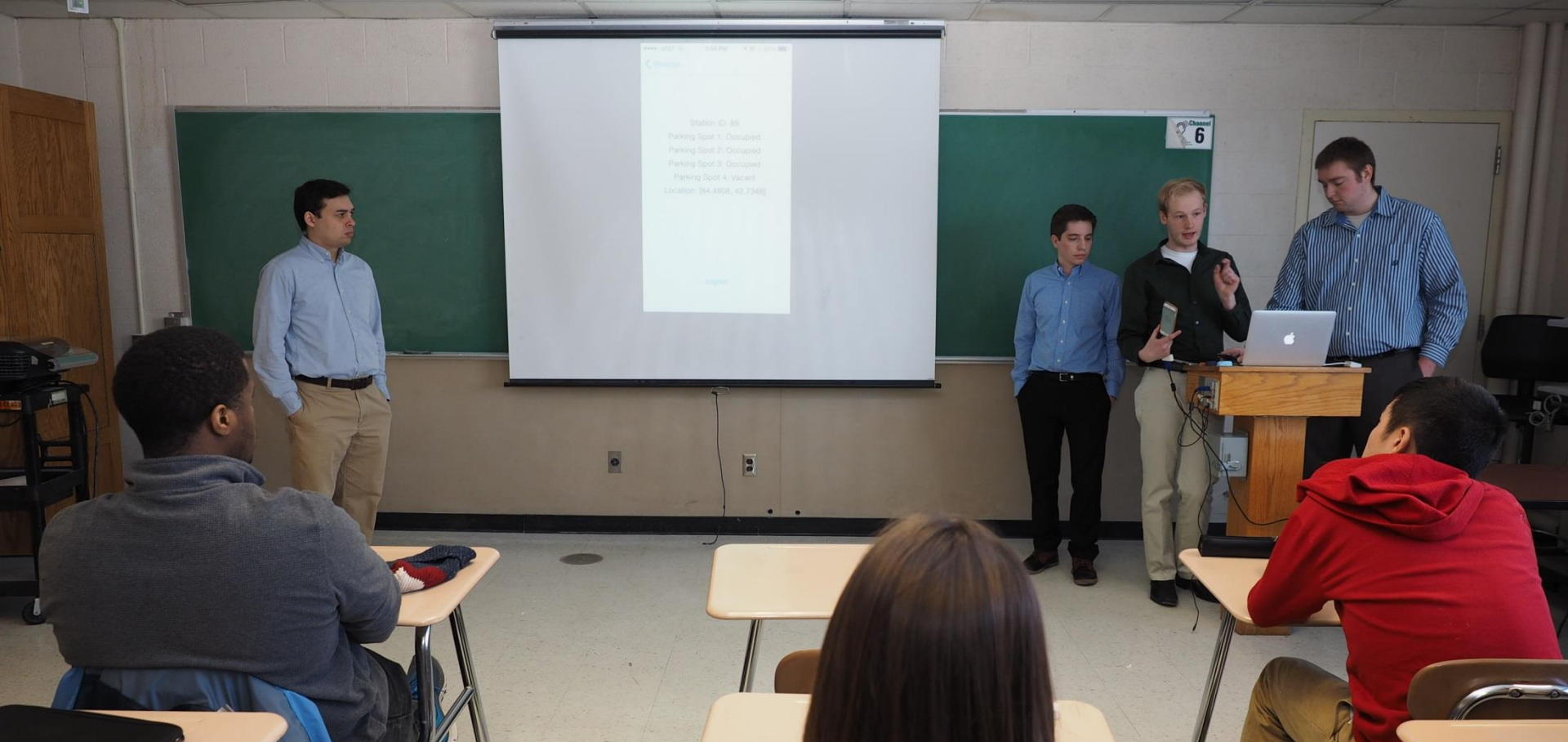
Harness Application



Team Ford Alpha Presentation

User App Login

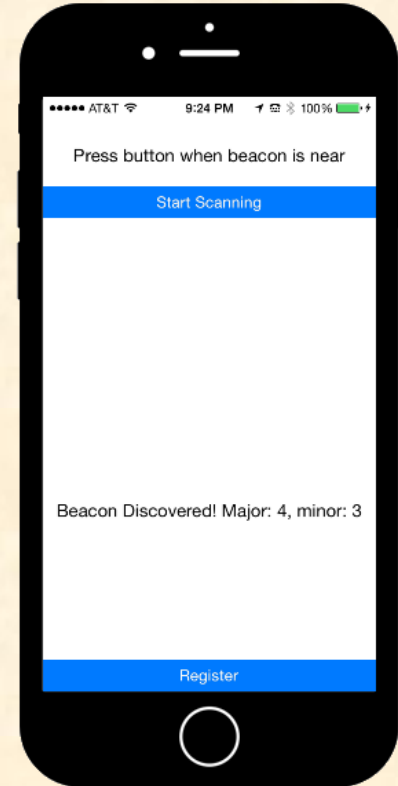
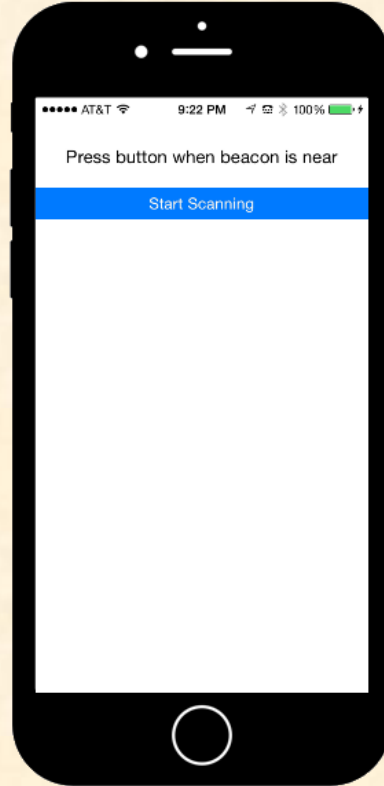
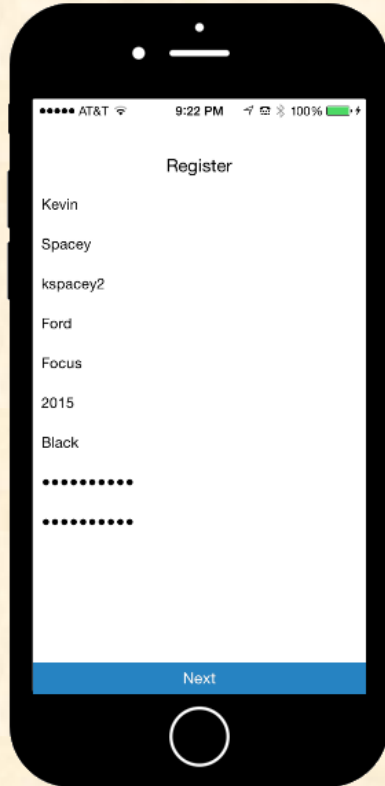




Team Ford Alpha Presentation

Team Ford Alpha Presentation

User Application Registration

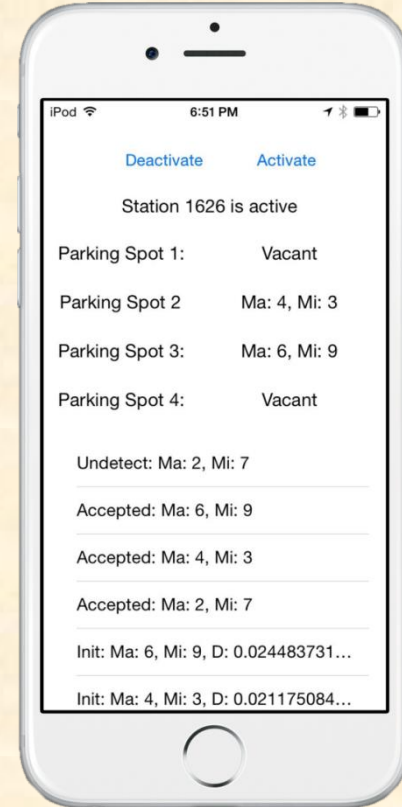
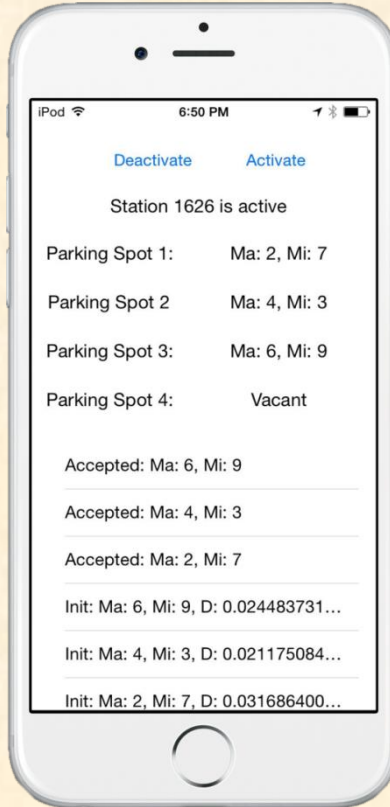
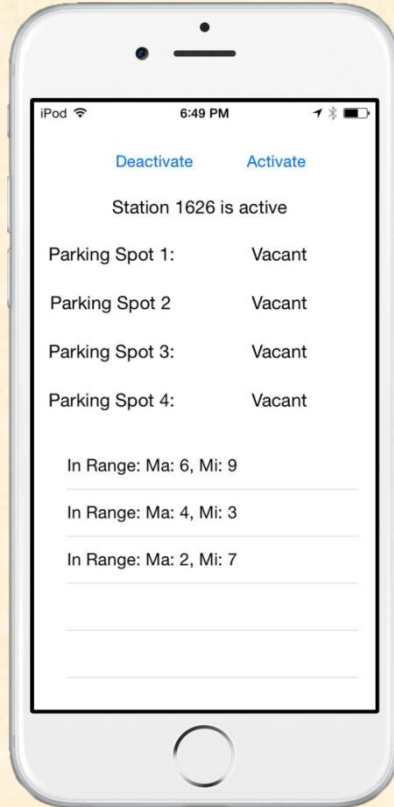




Team Ford Beta Presentation

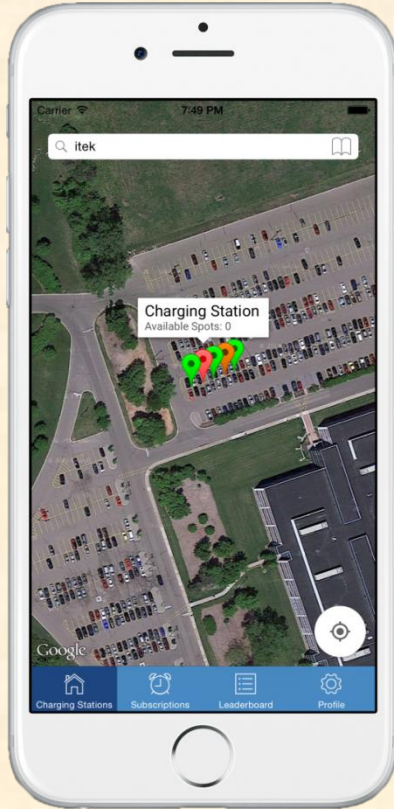
Team Ford Beta Presentation

Test Harness Application



Team Ford Beta Presentation

Charging Station Availability Map

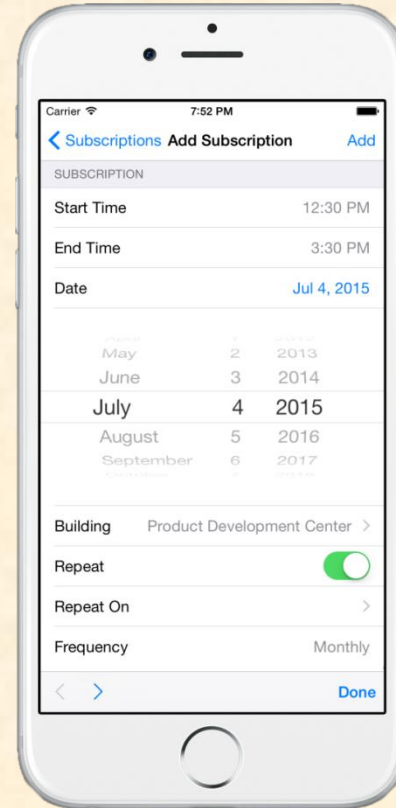
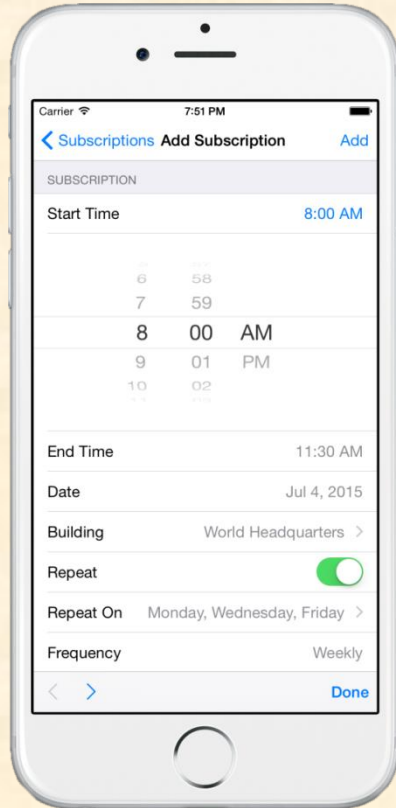




Team Ford Beta Presentation

Team Ford Beta Presentation

Subscriptions





Team Ford
Design Day

MICHIGAN STATE
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The Capstone Experience

Team GM

Department of Computer Science and Engineering
Michigan State University
Spring 2015



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that's right for you.

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SHOP CHEVY.COM



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GMC

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Team GM

Project Overview

Employee Companion Mobile Application

- Functionalities
 - Enable GM Employees
 - Manage IT Service Center Live Appointments
 - Using Mobile App
- Features
 - Support iPhone and iPad
 - Locate Nearest IT Service Center Live
 - Manage Appointments
 - Add
 - Change
 - Cancel
 - Send Push Notifications
 - Power Outages
 - Emergency Messages
 - Appointment Reminders
 - Product Recalls
- Technologies
 - iPhone and iPad Development (Objective-C, Xcode)
 - Web Development (CSS, HTML, PHP, JavaScript)
 - Microsoft SQL Server



Detroit, Michigan



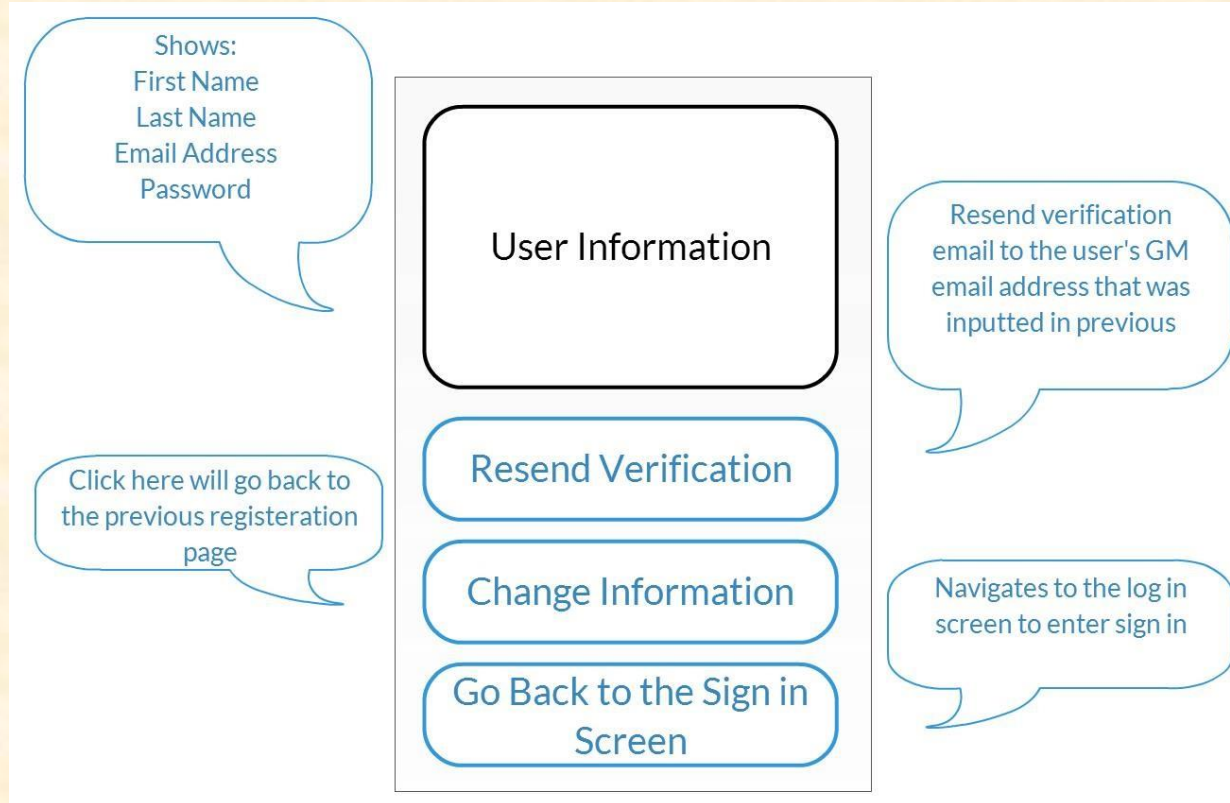


Team GM

Nate Seifert, Jacob Ray, Yutaka Iwasaki, Ryan Boyce, Derrick Dunville

Team GM Project Plan Presentation

Screen Mockup

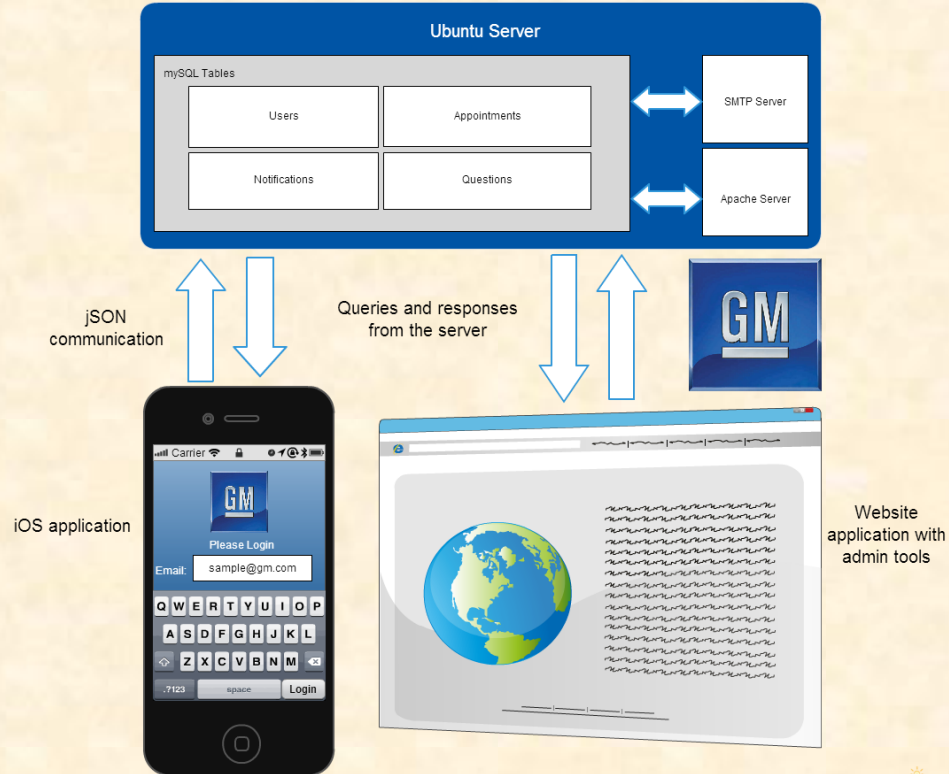




Team GM Project Plan Presentation

Project Plan Presentation

Architecture Diagram

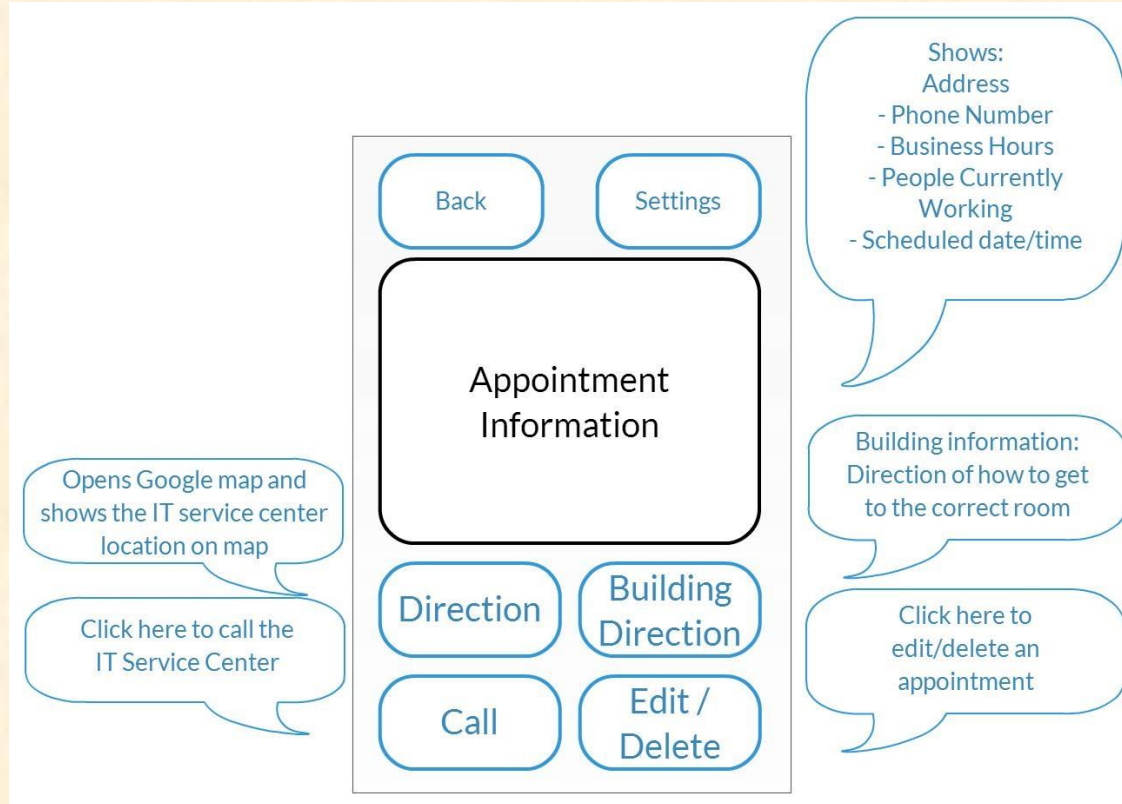




Team GM Project Plan Presentation

Team GM Project Plan Presentation

Screen Mockup

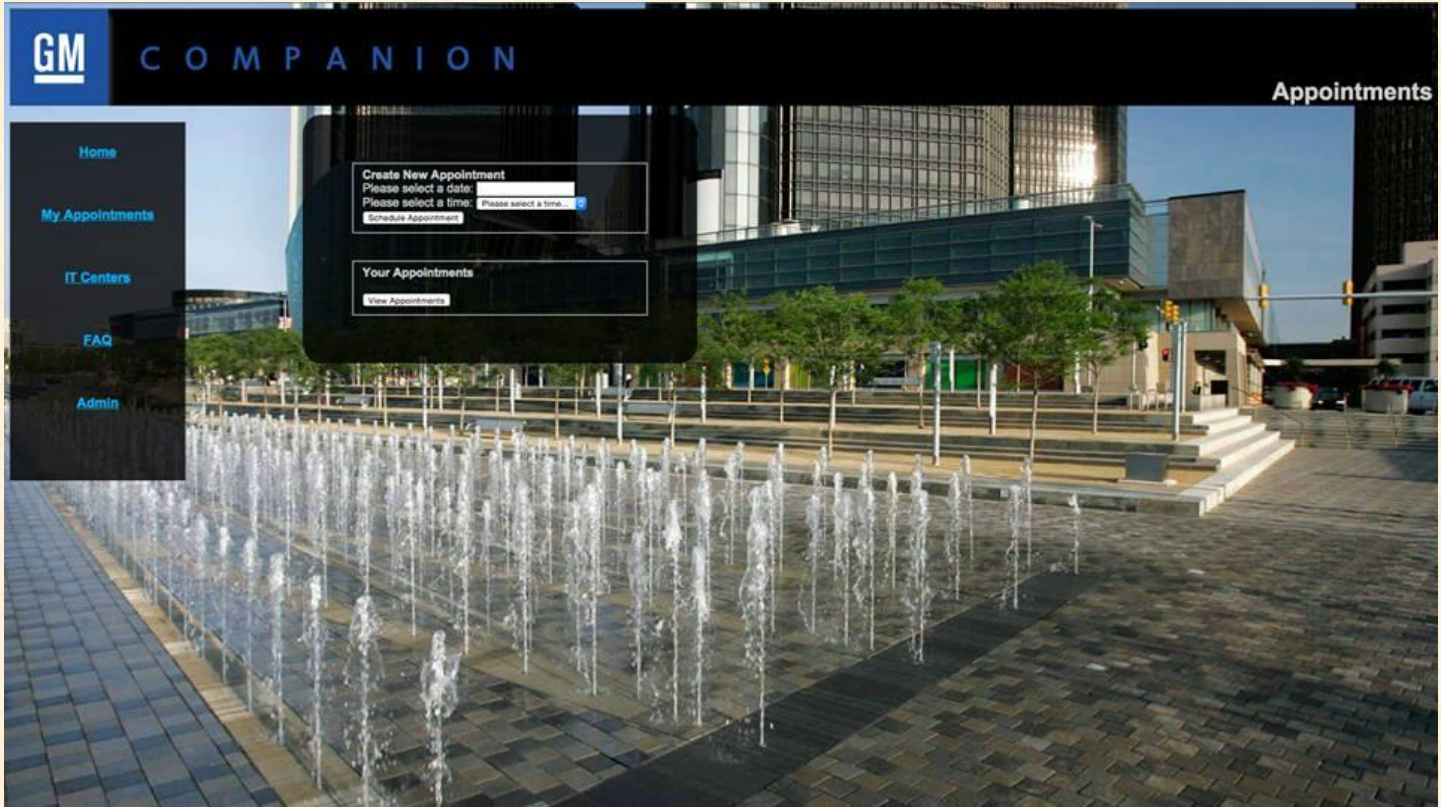




Team GM Alpha Presentation

Team GM Alpha Presentation

Scheduling Screen



Team GM Alpha Presentation

Appointment Details

iPad 9:03 PM 86%


GM COMPANION

APPOINTMENT DETAILS

Appointment Time: 12:00
Phone Number: 123-456-7890
Address: 1234 Default St
Example, MI 40000

Manager: Joe Smith
Description: General Description

Cancel Directions Call



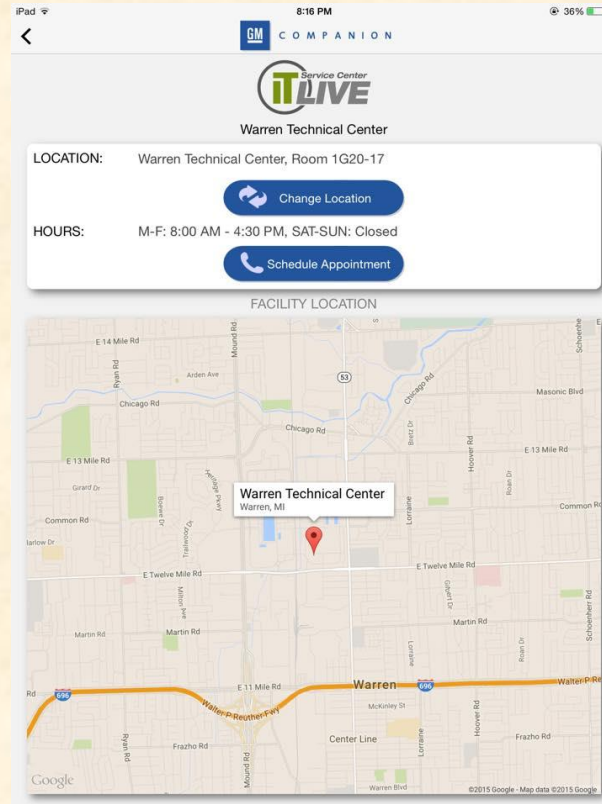
The floor plan shows a multi-story building with rooms numbered 200L through 255F. A callout box labeled 'Service Center iLIVE' points to room 252. The plan includes a central staircase area with 'UP' and 'DOWN' arrows, and several smaller rooms and corridors.



Team GM Alpha Presentation

Team GM Alpha Presentation

IT Service Center Live Details

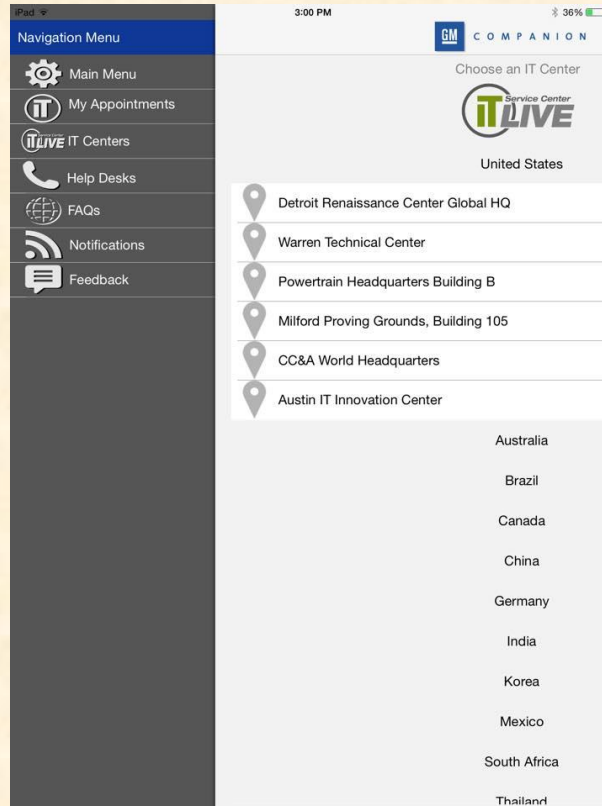




Team GM Beta Presentation

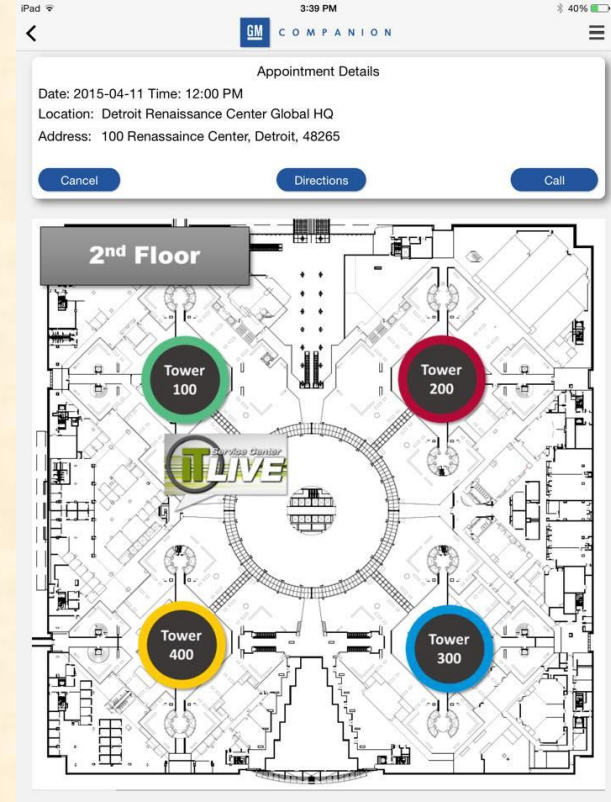
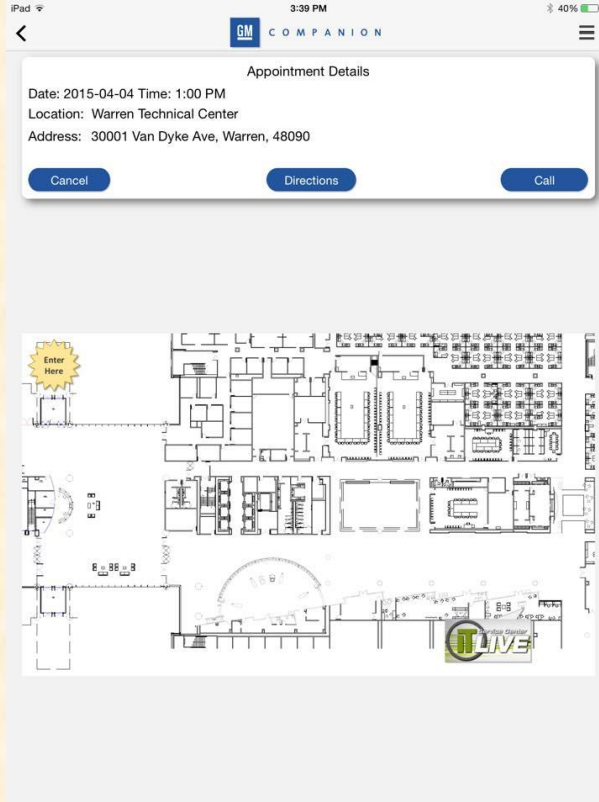
Team GM Beta Presentation

Mobile App Navigation Bar



Team GM Beta Presentation

Appointment Details

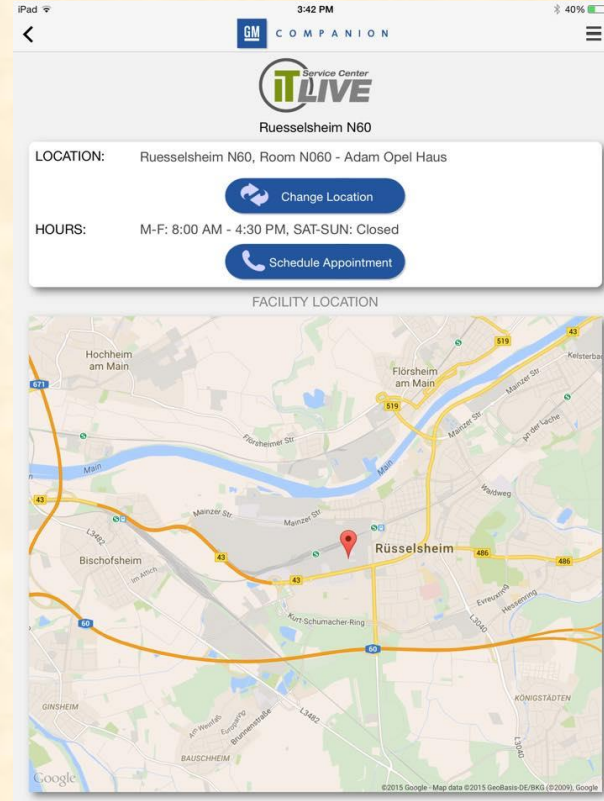
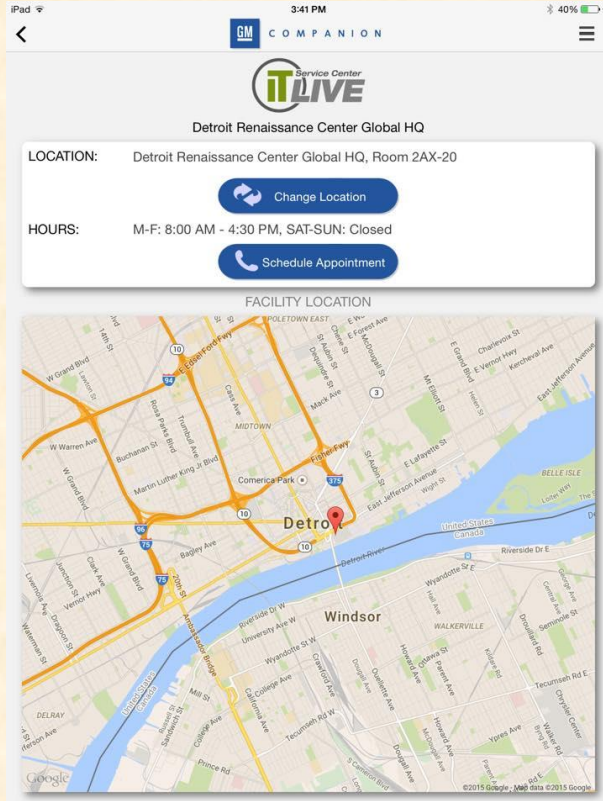




Team GM Beta Presentation

Team GM Beta Presentation

Location Based Scheduling





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Team Meijer

Department of Computer Science and Engineering
Michigan State University
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weekly ads

[Browse by Product](#)[Shopping List \(0\)](#)

 **My Store:** 1350 W. Lake Lansing Road East Lansing, MI 48823
| (517) 332-2444 [Change Location](#)



meijer

1.98 Extra Large Sweet Golden Pineapple

8.99 Certified Angus Beef Roast to 5lb Roast

2.99 Meijer Bakery 9" Pie

2.99 Recent Potatoes

99c Cheddar Cheese

1.89 Seasoned Bread or Crackers

99c Soft Ice Cream

2.55 Meijer Butter

2.53 Soft Philadelphia Cream Cheese

3.99 Cook's Spiral Sliced Roast Ham

This Weeks Ad - 12/21

Prices good December 21 - December 27

view



meijer

last-minute deals

Great Gifts, Great Savings
Sunday, December 21 thru Wednesday, December 24, 2014.

Open Christmas Eve until 7 pm
Closed Christmas Day
Re-open December 26 at 6 am

\$5 or less

\$3 Honey Princess Biting Ball Single Pack

\$4 Hot Wheels or Matchbox 5 Car

\$4 Barbie Beach Doll

Last Minute Deals - 12/21

Prices good December 21 - December 24

view



Team Meijer Project Overview

Product Availability Check using Glassware

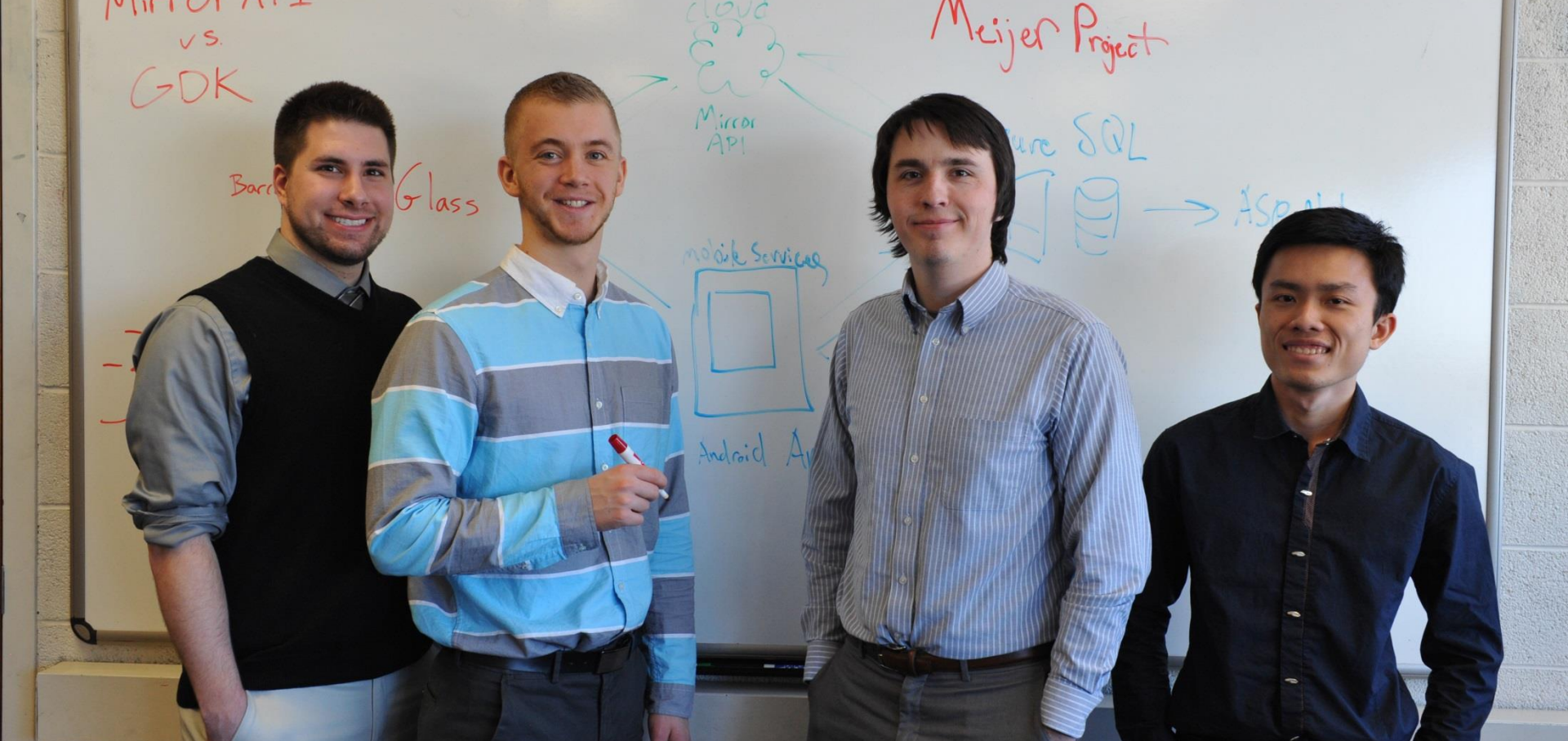
- Functionalities
 - Enable Meijer Team Members
 - Check on Product Availability for Customers
 - Hands-Free Using Google Glass
- Features
 - Lookup Product Via Barcode
 - Determine Product Availability At
 - Local Store (Other Shelves, Backroom, Truck)
 - Other Stores Nearby
 - Distribution Centers
 - Provide Visual Feedback to Meijer Associate
 - Track Location of Meijer Associate in Store
 - Generate Aggregated Analytics on Usage
- Technologies
 - Google Glass Development
 - iBeacon
 - iPhone and iPad Development (Objective-C, Xcode)
 - Microsoft .NET Framework, C#, ASP.NET
 - Microsoft Azure
 - Microsoft SQL Server
 - Meijer Web Services
 - Responsive Design (Xamarin or PhoneGap)
 - Crashlytics



meijer[®]

Grand Rapids, Michigan





Team Meijer

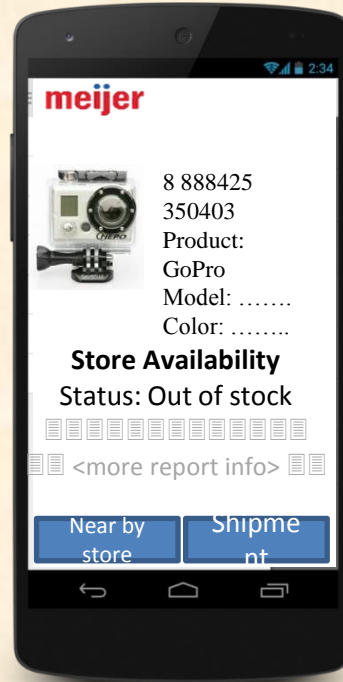
Scott Rucinski, Ethan Ettema, Jim Howell, Luan Tran

Team Meijer Project Plan Presentation

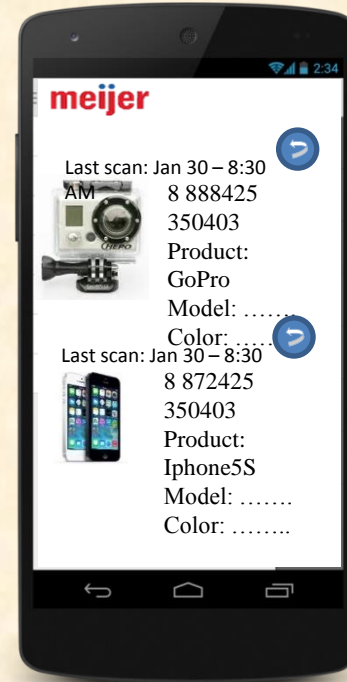
Screen Mockups



Image loaded &
ready to be analyzed



Product info screen



Recently viewed
scan results

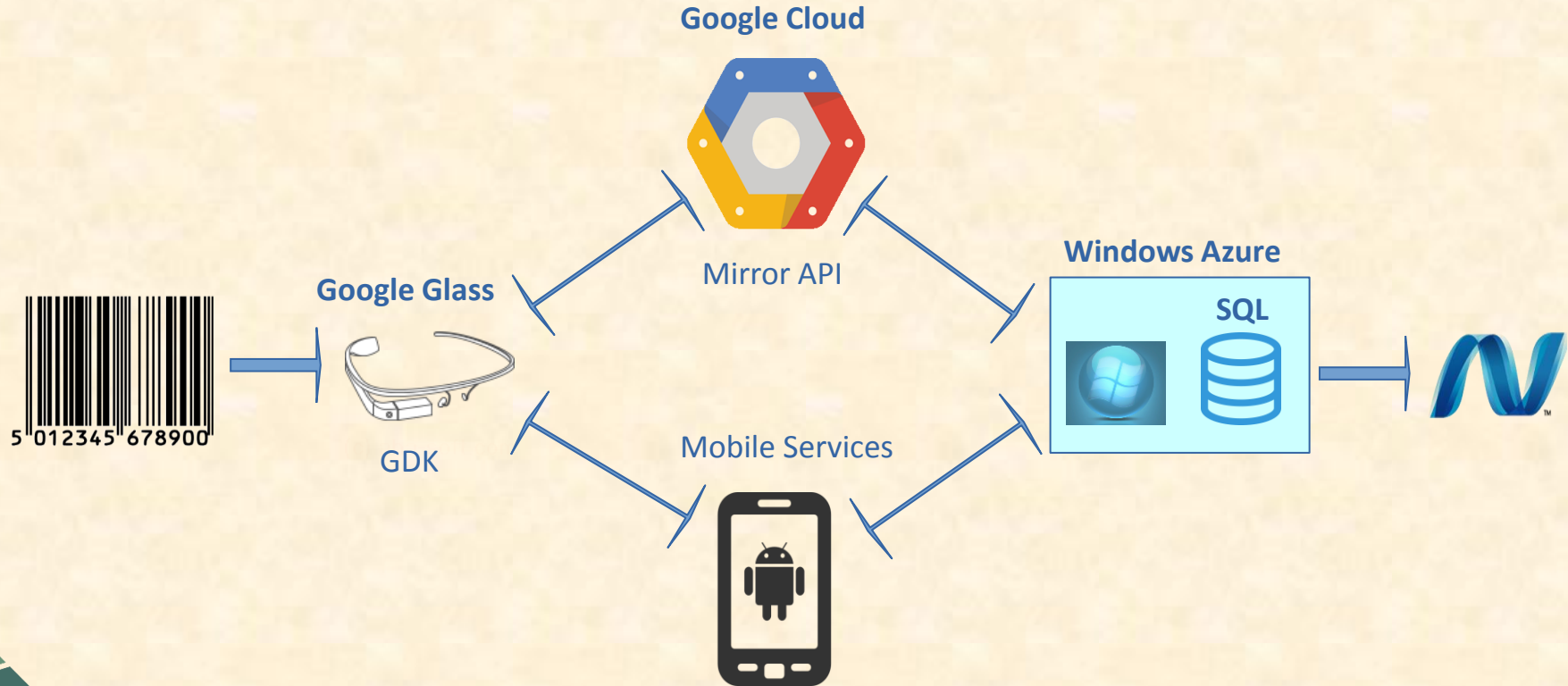




Team Meijer Project Plan Presentation

Team Meijer Project Plan Presentation

Architecture Diagram





Team Meijer Project Plan Presentation

Team Meijer Project Plan Presentation

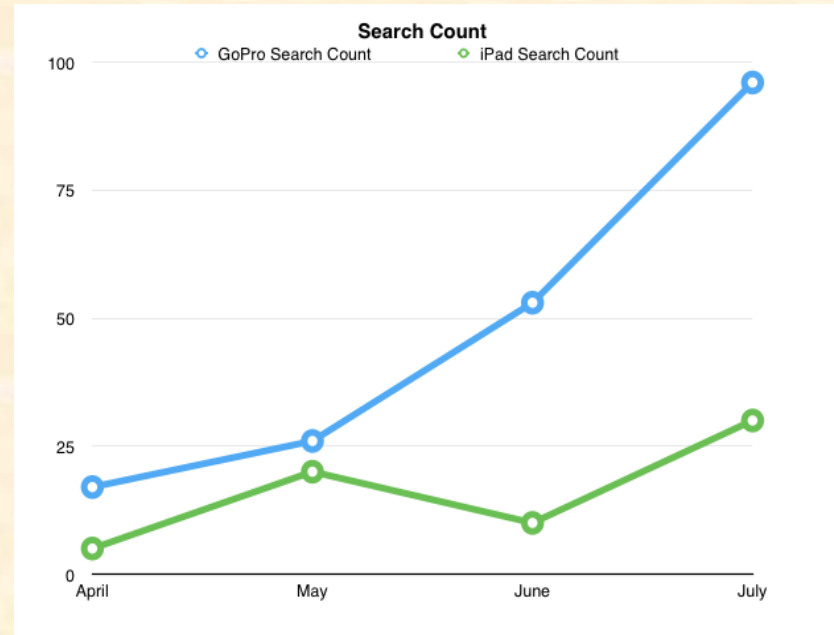
Screen Mockups

Order by:

Date

GoPro Searches

Date	Location	In-Store Availability	Other Data...
1-20-15	East Lansing	5	
1-20-15	East Lansing	4	
1-21-15	Okemos	4	
1-22-15	East Lansing	3	

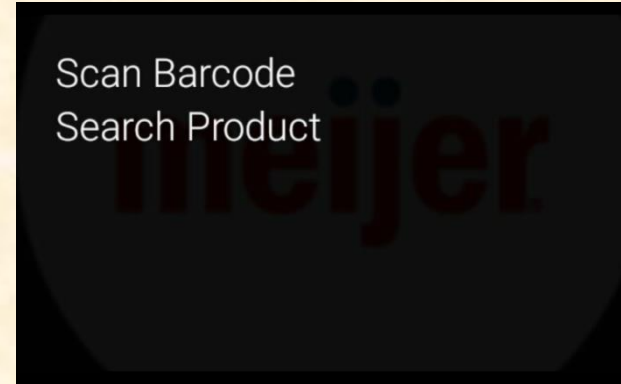




Team Meijer
Alpha Presentation

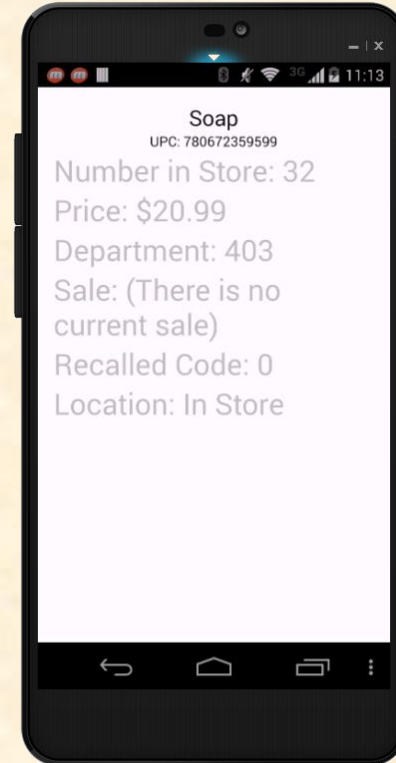
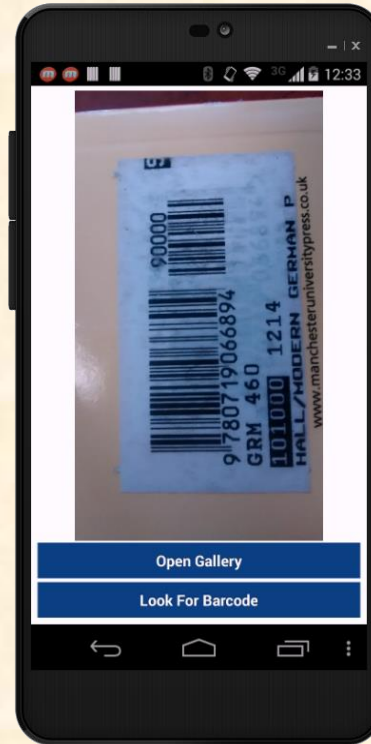
Team Meijer Alpha Presentation

Glass App Scan Menu



Team Meijer Alpha Presentation

Android App






Team Meijer Alpha Presentation

Team Meijer Alpha Presentation

Associates' Web Portal


EMPLOYEE PORTAL

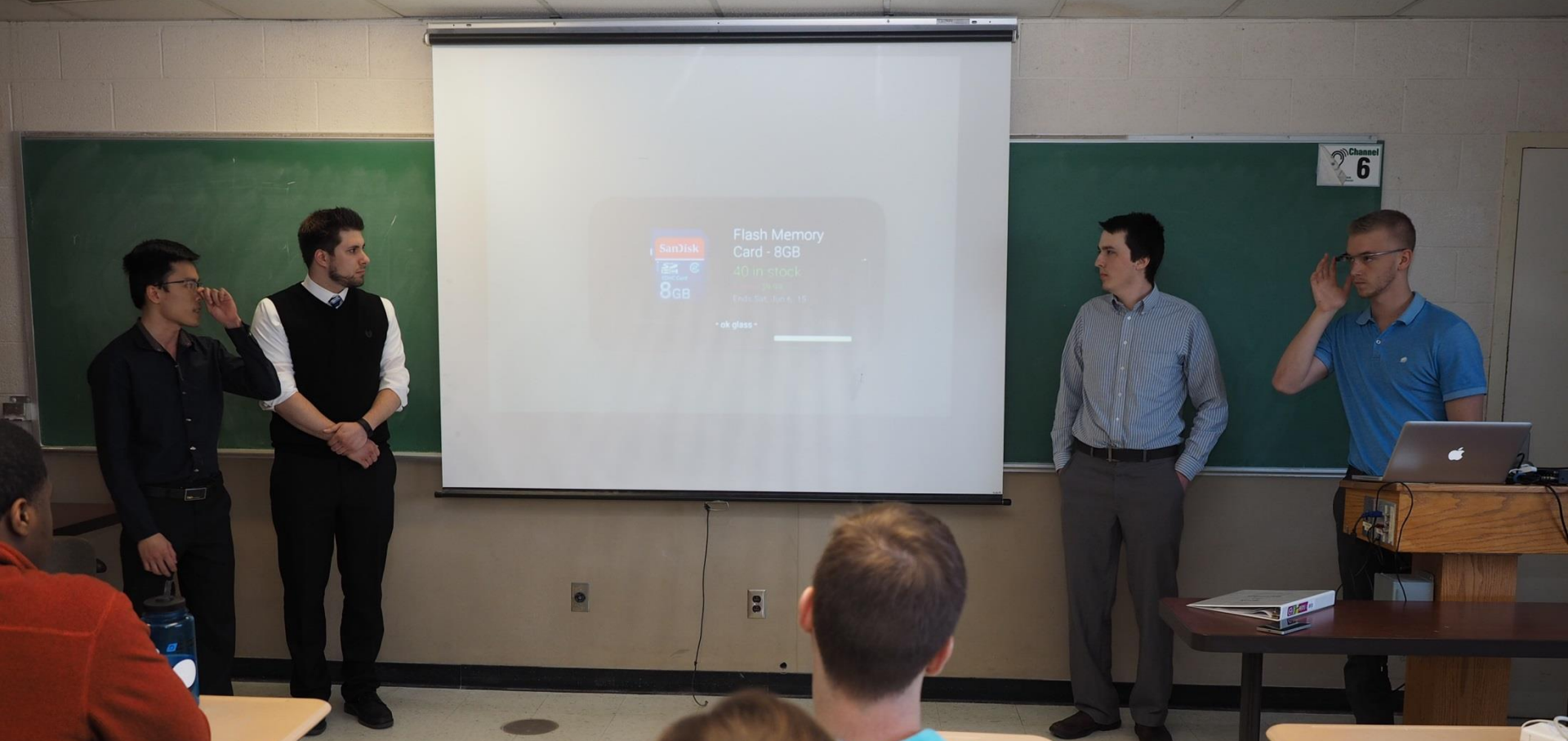
Search Term:

Search For: Order By:

9 item(s) found.

ID	UPC	Description	Balance On Hand	Time
E71DBF3E-D572-4D1F-A361-5DC29A2DA432	00000000006637	Fish	7	2-21-2015 05:45:47
DD55C810-3A23-4CB6-99E4-E0C25AB2A945	00000000006637	Fish	10	2-20-2015 15:21:17
6678CBDE-14AC-4E9D-BAE9-043F8EB08468	00000000006637	Fish	10	2-21-2015 11:33:43
A654E9B8-B0FC-42EB-B506-F79CE29E2183	00000000006637	Fish	11	2-20-2015 10:41:17
3490BED6-BA1D-4F3C-872A-9C3E754AC201	00000000006637	Fish	11	2-21-2015 07:28:06
7EEB56BB-4FEC-41DF-B286-9B3E47FD366E	00000000006637	Fish	12	2-20-2015 08:01:38
2E4593F1-FC1D-43B5-A2CB-57D1D6BF8655	00000000006637	Fish	13	2-19-2015 13:45:21
2839D52B-91F1-41CD-860E-1ECEA1DBE1D4	00000000006637	Fish	15	2-19-2015 14:32:51
F3B3B314-7833-4019-B775-A7EC90033004	00000000006637	Fish	15	2-19-2015 20:15:07


Michigan State University - Capstone Experience



Team Meijer Beta Presentation

Team Meijer Beta Presentation

Product Info on Glassware



GoPro

4 in stock

~~\$199.99~~ \$149.99

Ends: Tue, Jun 19, '18

MSU

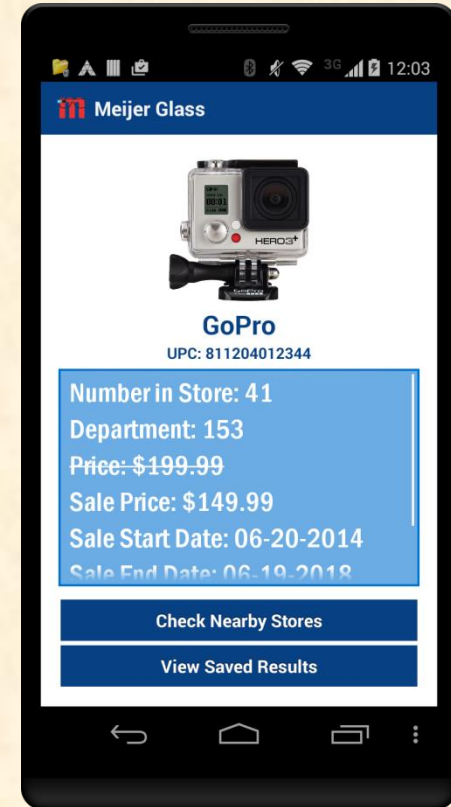
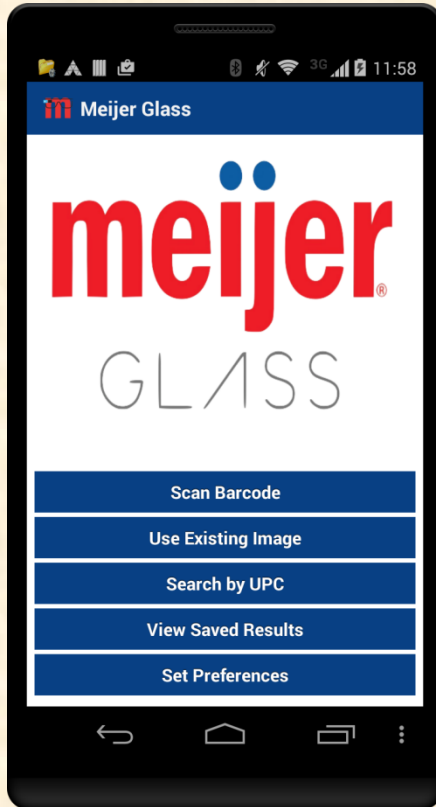
" ok glass "

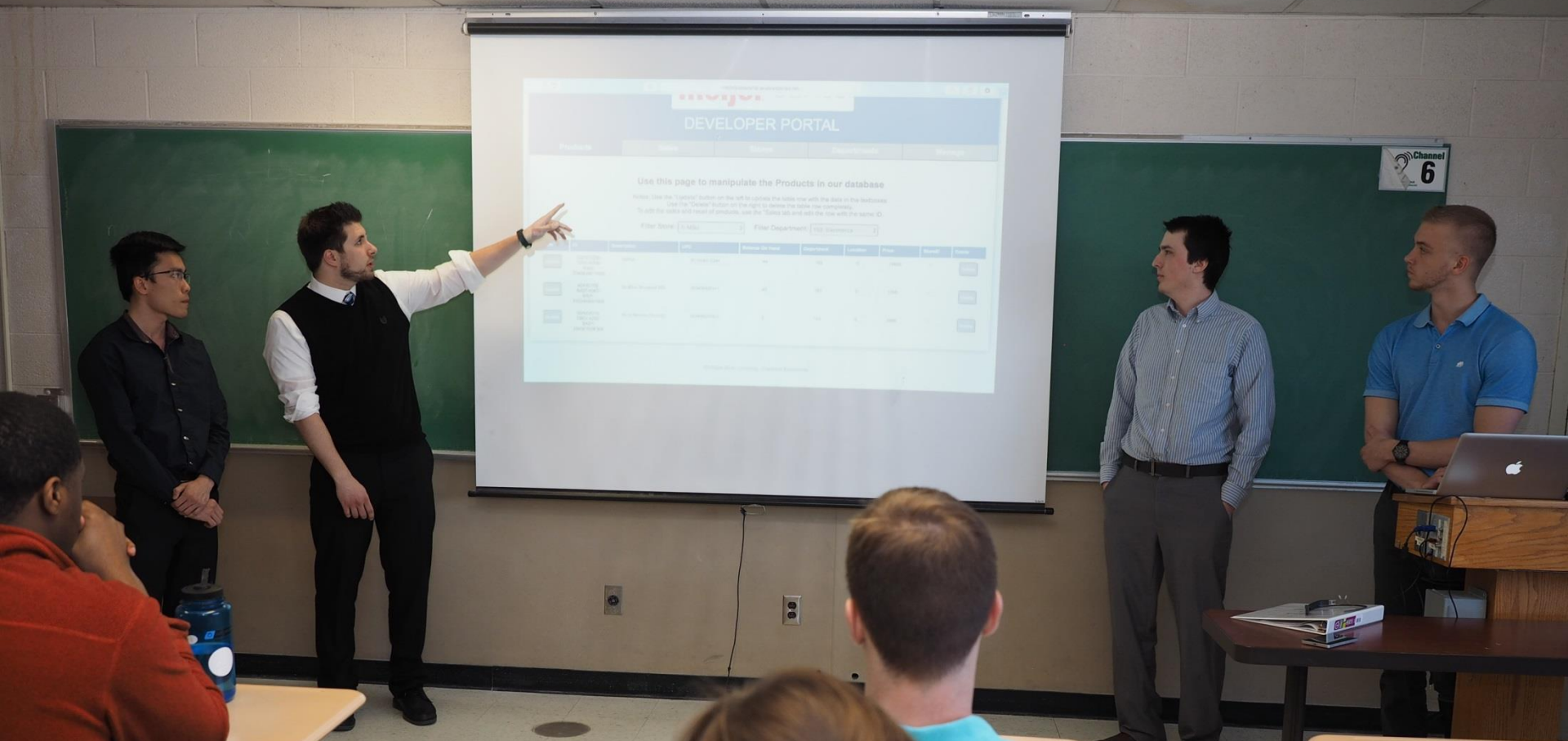
just now



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Android App

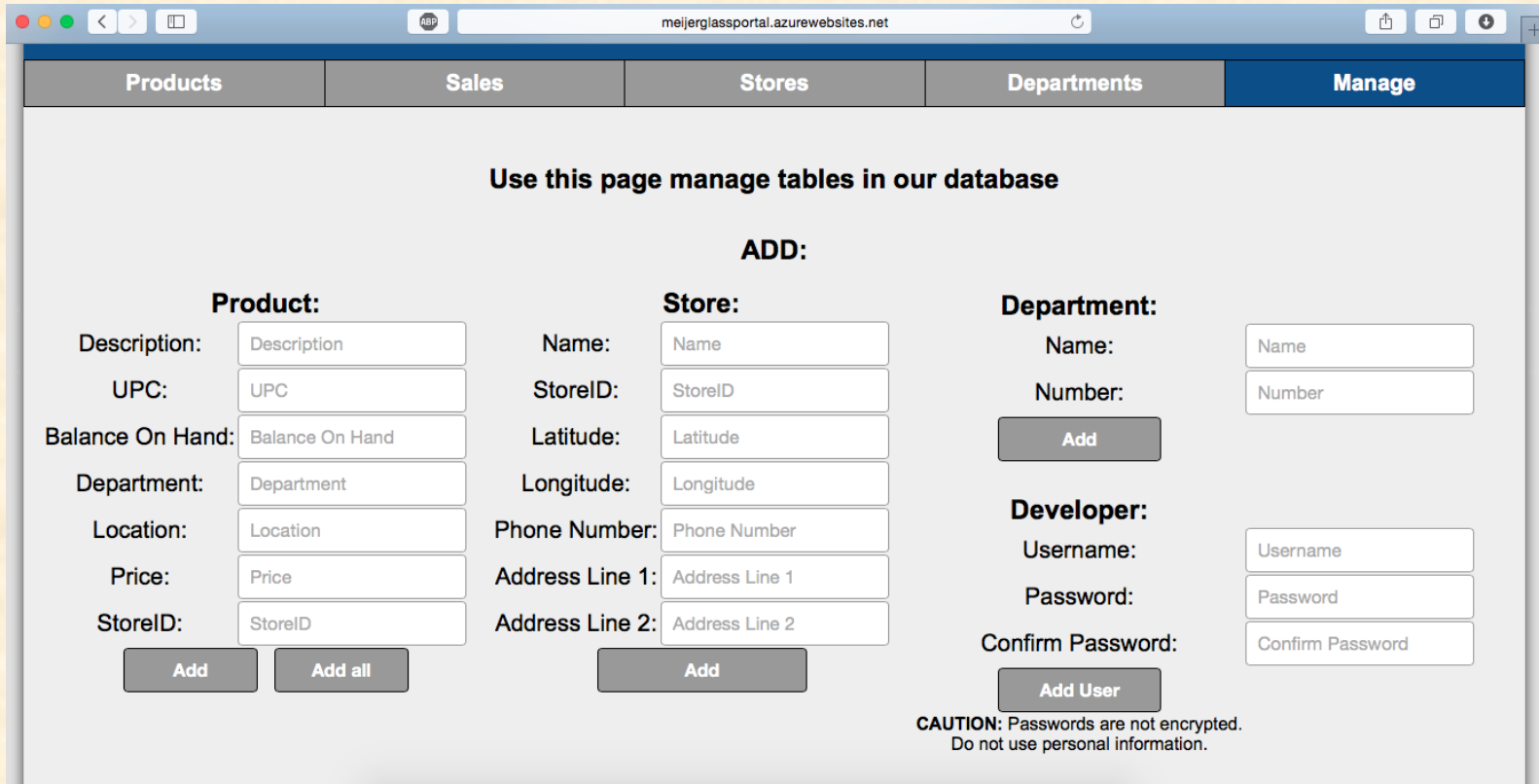




Team Meijer Beta Presentation

Team Meijer Beta Presentation

Website Developer Portal



The screenshot shows a web browser window with the URL `meijerglassportal.azurewebsites.net`. The page has a navigation bar with tabs: **Products**, **Sales**, **Stores**, **Departments**, and **Manage** (which is highlighted in blue). Below the navigation bar, the main content area has a heading: **Use this page manage tables in our database**. Under this heading is a section titled **ADD:**. This section contains three columns of form fields for adding new database tables. The first column is for **Product:** and includes fields for Description, UPC, Balance On Hand, Department, Location, Price, and StoreID, with **Add** and **Add all** buttons below. The second column is for **Store:** and includes fields for Name, StoreID, Latitude, Longitude, Phone Number, Address Line 1, and Address Line 2, with an **Add** button below. The third column is for **Department:** and includes fields for Name, Number, and a **Add** button. Below these is a **Developer:** section with fields for Username, Password, and Confirm Password, with an **Add User** button below. At the bottom right, a **CAUTION** message states: "Passwords are not encrypted. Do not use personal information."

Products **Sales** **Stores** **Departments** **Manage**

Use this page manage tables in our database

ADD:

Product:

Description:

UPC:

Balance On Hand:

Department:

Location:

Price:

StoreID:

Add **Add all**

Store:

Name:

StoreID:

Latitude:

Longitude:

Phone Number:

Address Line 1:

Address Line 2:

Add

Department:

Name:

Number:

Add

Developer:

Username:

Password:

Confirm Password:

Add User

CAUTION: Passwords are not encrypted.
Do not use personal information.



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Contest ends 12/31/14.

What's New @ MSUCU

[Enter Your Child in the MSU Game Ball Delivery Contest](#)[MSUCU Announces Headquarters Expansion](#)[Apple Pay Coming to MSUCU Mid-2015](#)

Upcoming Events



**MSUCU Night at MSU
Women's Basketball Game**
Thursday, January 08

[View all events >>](#)

MSUCU Routing Number: 272479663
MSUCU SWIFT Code: MSUCUS44

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is currently
unavailable



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Mon-Fri: 7:00 a.m. - 9:00 p.m. ET
Sat: 9:00 a.m. - 3:00 p.m. ET



Current Rates

[Loans](#)[Home Loans](#)[Savings](#)[Business](#)

Auto Loan

as low as 2.250% APR

Team MSUFCU Project Overview

Financial 4.0 Interactive Financial Education

- Functionalities
 - Educate MSU Students
 - On Personal Financial Matters
 - Using Web Technologies
- Features
 - Cover Variety of Topics
 - Budgeting
 - Debt
 - Credit
 - Etc.
 - Be Fun, Creative, Interactive and Engaging
 - Support Both
 - Responsive Web App
 - Native iPhone/iPad and Android Apps
 - Integrate with MSUFCU Content Management System
- Technologies
 - Web Development (CSS, HTML, PHP, JavaScript, jQuery)
 - iPhone/iPad and Android Development (Objective-C, Java)
 - Responsive Design
 - Microsoft .NET Framework, C#, ASP.NET
 - MySQL






Team MSUFCU

Josh Cornett, Vinny Sabatini, Ashlee DeLine, Matt LaBrenz, James Estell


Team MSUFCU Project Plan Presentation

Screen Mockups

 **Financial 4.0**

Budget

Edit



Food

40%

Coffee

20%

Shopping


20%


Auto


20%


Savings

\$50.00 Saved









MSUFCU Budget Tracker

Welcome, Gamefrenzy!

Home

Transactions

Challenges

Setup

Budget Setup

Accounts

Name	Type	Owner	Date Made	Balance
Checking	Checking	Joshua	1/20/12	\$1000
Savings	Savings	Joshua	1/20/12	\$1000

Add

Remove

Edit

ExpenseLimits


Food	\$100	\$50 Under Limit	Splurging	\$20	\$50 Under Limit
Gas	\$150	\$50 Under Limit	Gifts	\$50	\$50 Under Limit
Electricity	\$200	\$50 Under Limit	Coffee	\$80	\$50 Under Limit


Add


Remove


Edit


General Categories

 Aid

 Sales

 Gifts

 Groceries

 Outings

Add

Remove

Edit

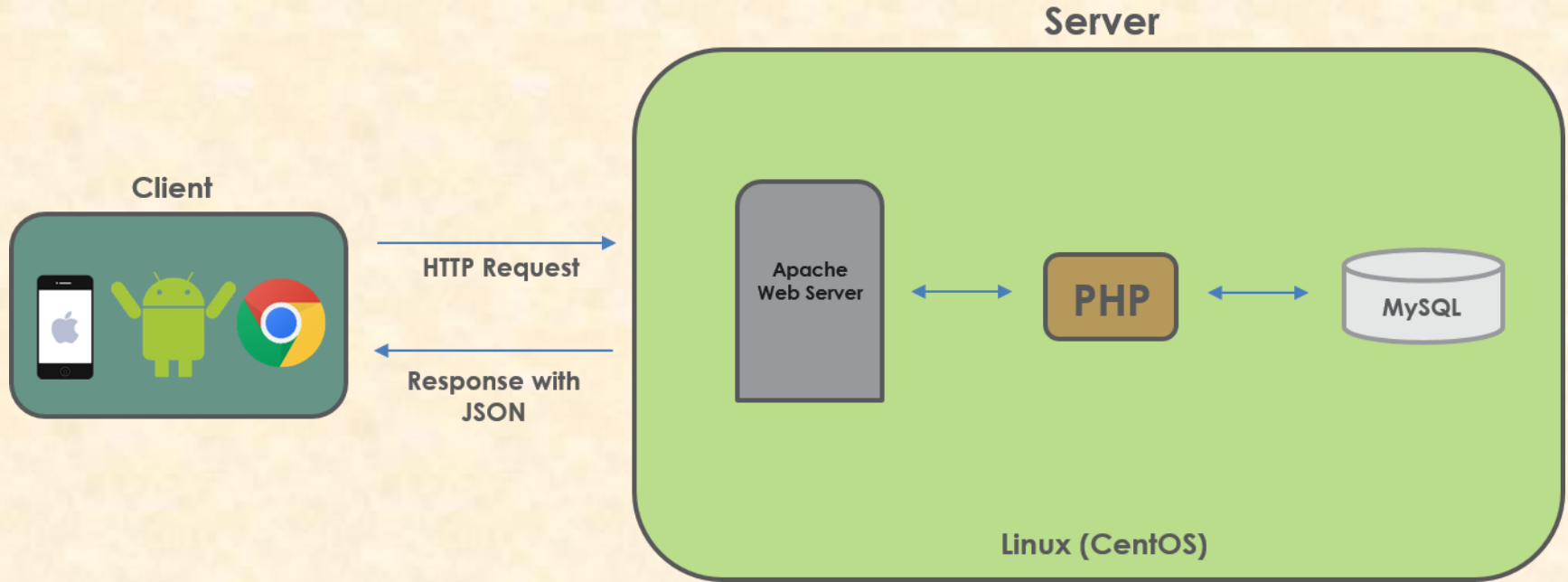
The Capstone Experience



Team MSUFCU Project Plan Presentation

Team MSUFCU Project Plan Presentation

Architecture Diagram

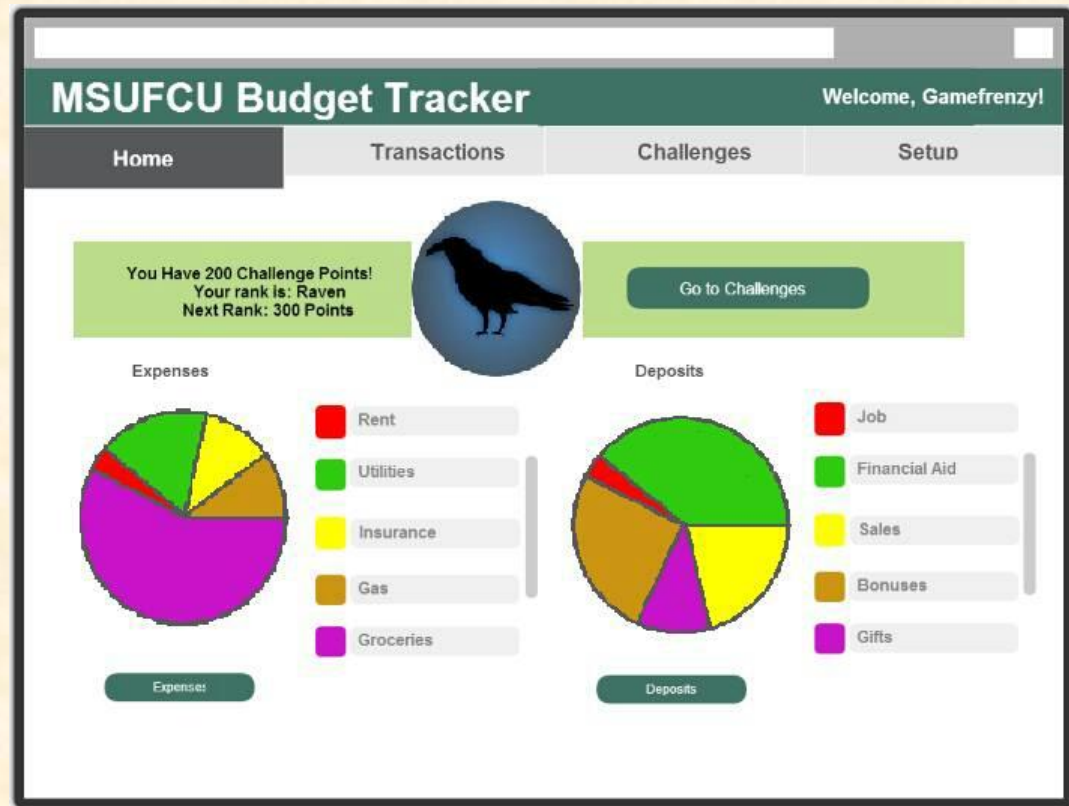
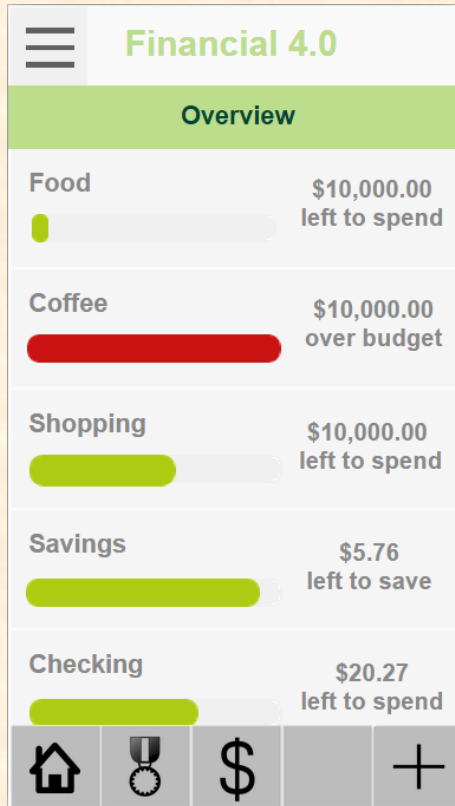




Team MSUFCU Project Plan Presentation

Team MSUFCU Project Plan Presentation

Screen Mockups

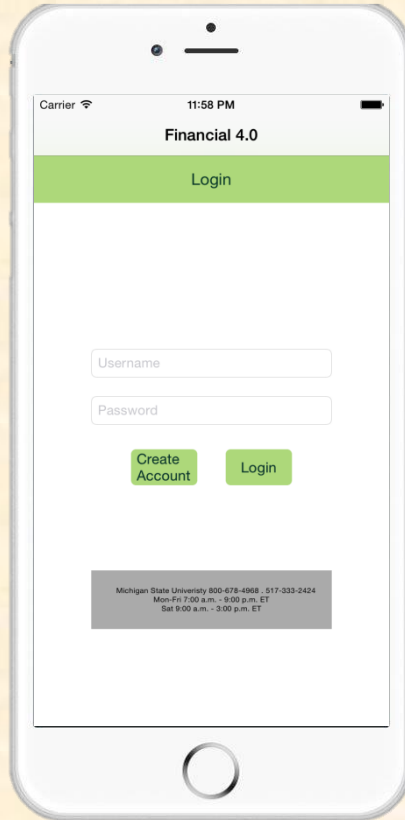




Team MSUFCU Alpha Presentation

Team MSUFCU Alpha Presentation

Login Screen



MSUFCU Budget Tracker

Please Sign In

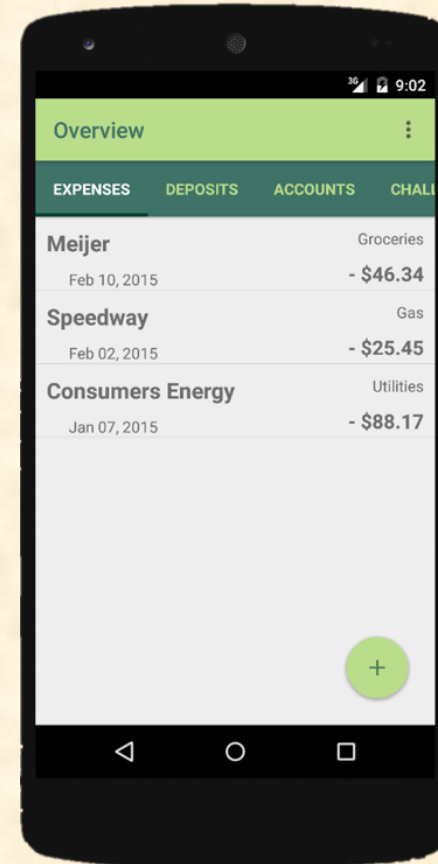
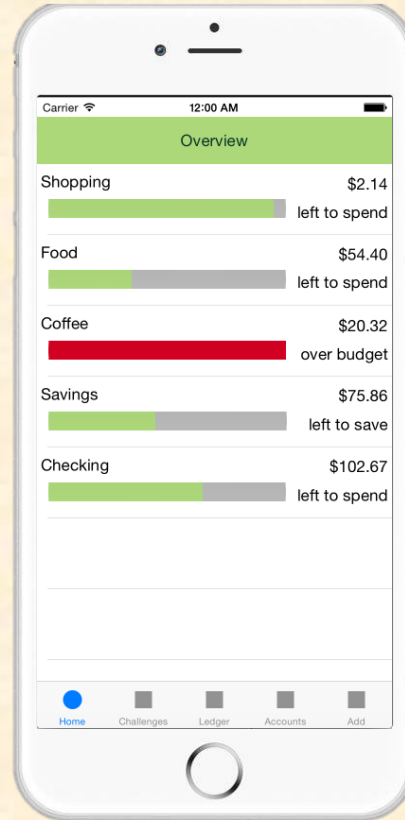
Email:

Password:

Michigan State 800-678-4968 • 517-333-2424
Mon-Fri 7:00 a.m. - 9:00 p.m. ET
Sat 9:00 a.m. - 3:00 p.m. ET

Team MSUFCU Alpha Presentation

Overview Screen





Team MSUFCU Alpha Presentation

Team MSUFCU Alpha Presentation

Ledger Screen

MSUFCU Budget Tracker

Welcome sabati15!▼

HOME

TRANSACTIONS

CHALLENGES

SETUP

Transactions

EXPENSES

DEPOSITS

Description	Date	Amount	Account	Category	Category Select
Pancheros	2015-01-28	\$8.54	Totally Green Checking	Fast Food	Coffee
Starbucks	2015-01-30	\$3.24	Totally Green Checking	Coffee	Groceries
Meijer	2015-02-01	\$35.76	Totally Green Checking	Groceries	Fast Food
Phone Charger	2015-02-01	\$18.74	Totally Green Checking	Electronics	Electronics
Gas	2015-02-08	\$31.58	Totally Green Checking	Travel	Travel

Add

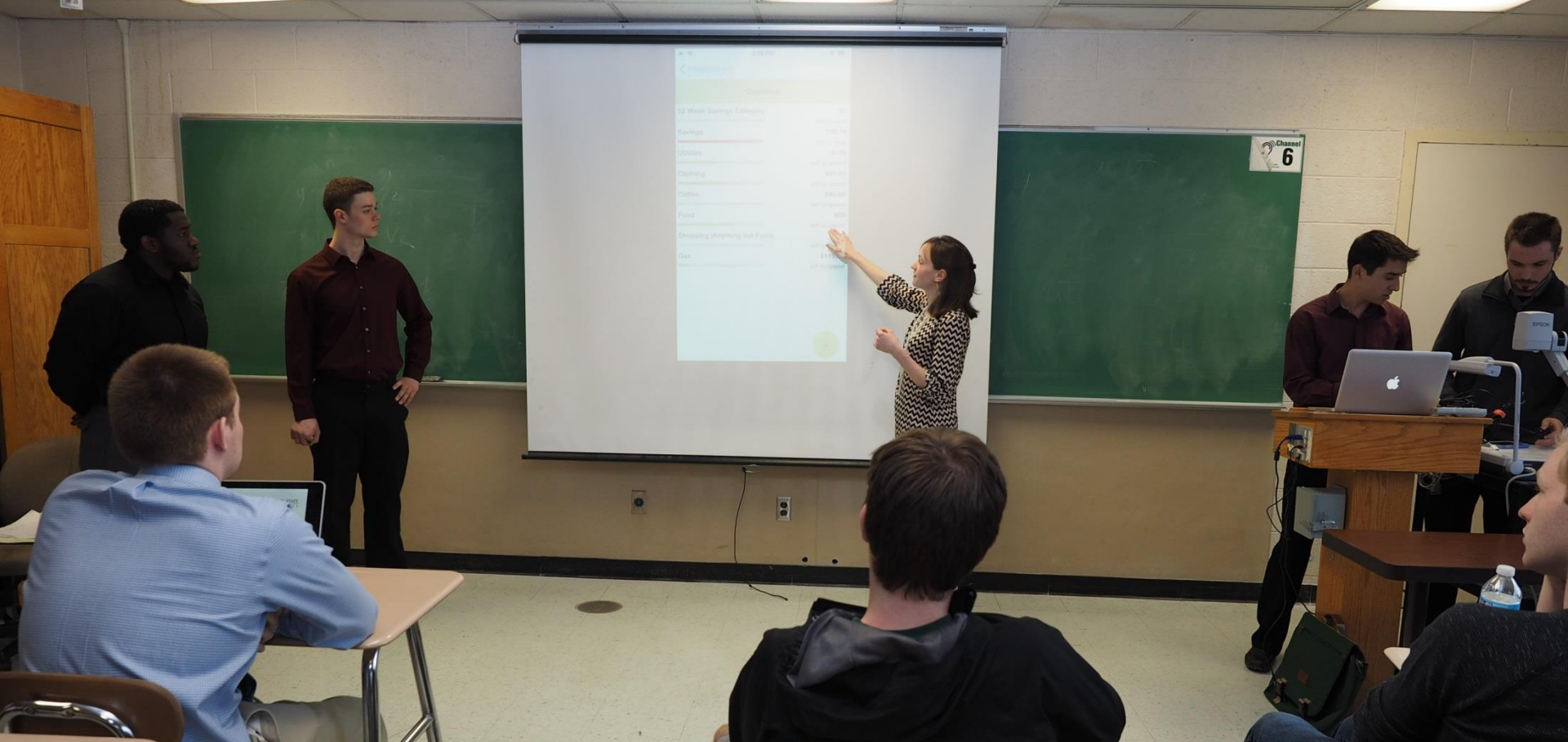
Remove

Edit

Add

Remove

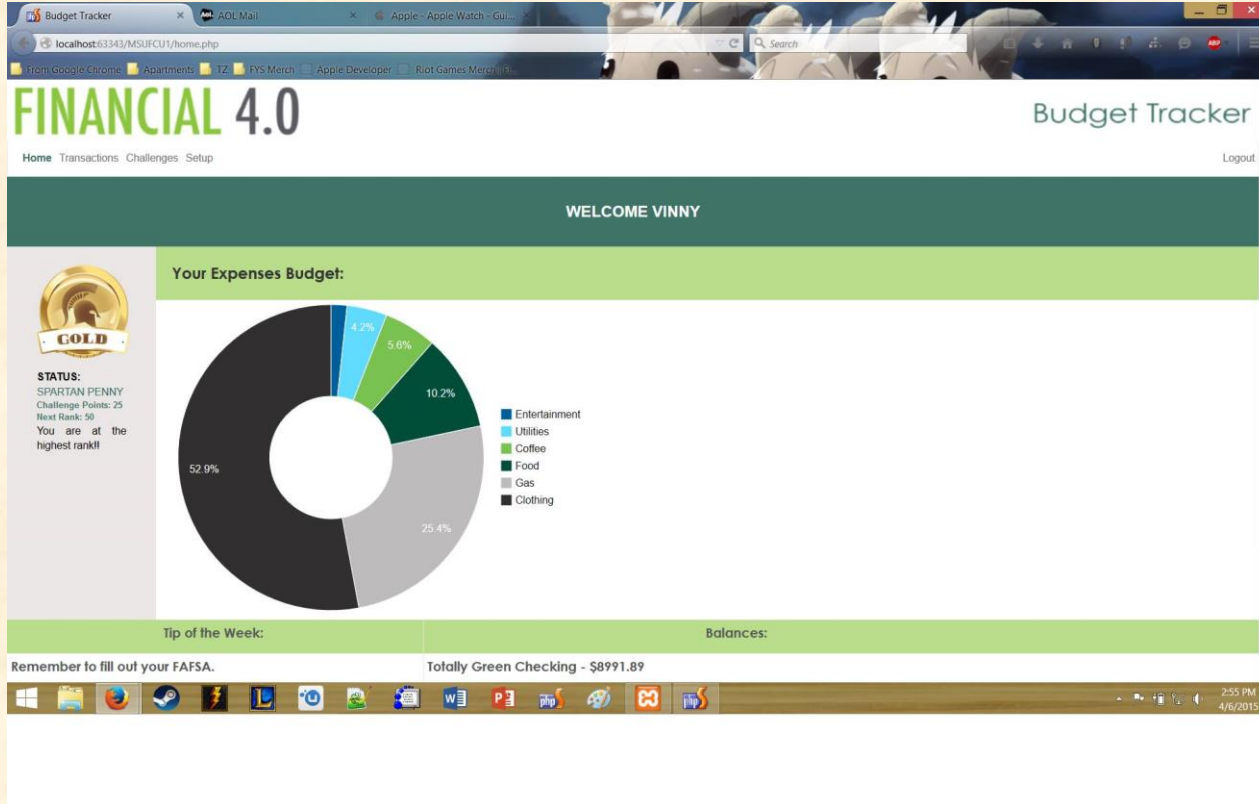
Edit



Team MSUFCU Beta Presentation

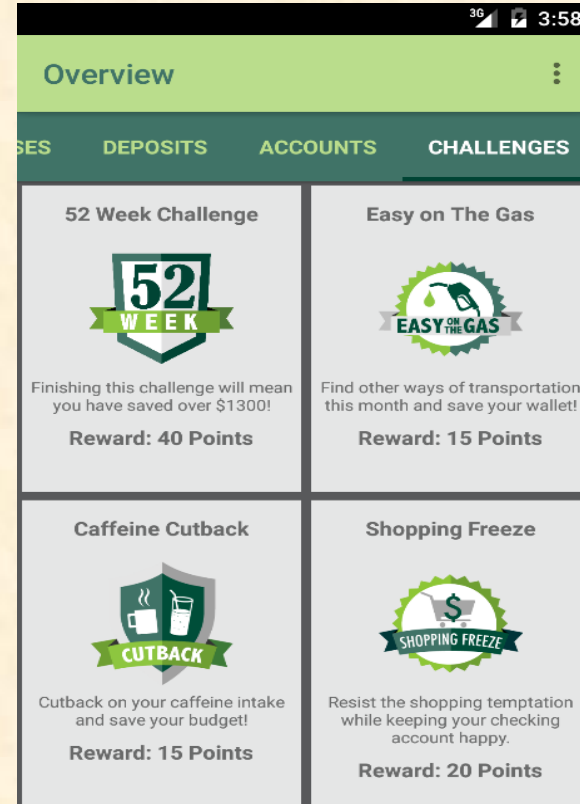
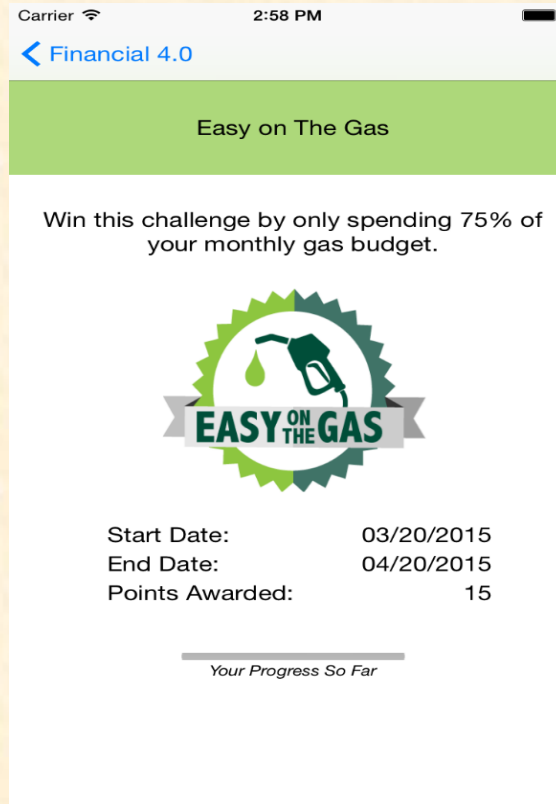
Team MSUFCU Beta Presentation

Web App Home Screen



Team MSUFCU Beta Presentation

Mobile Challenge Screens

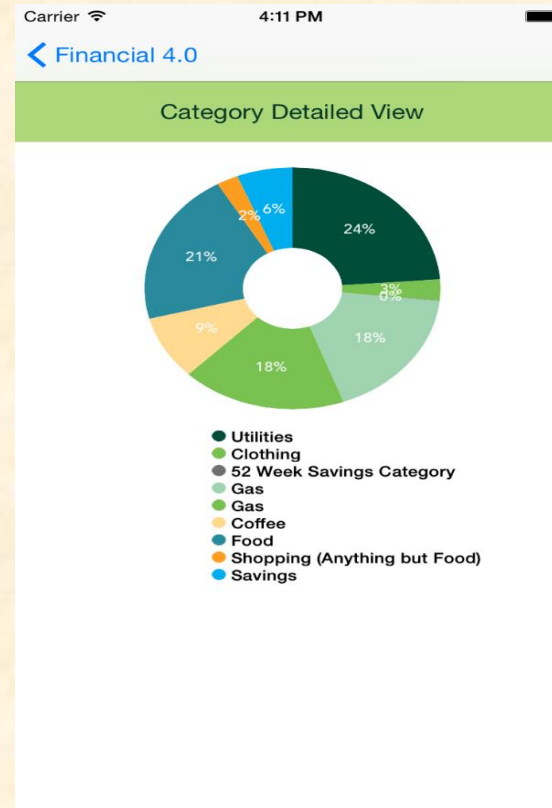
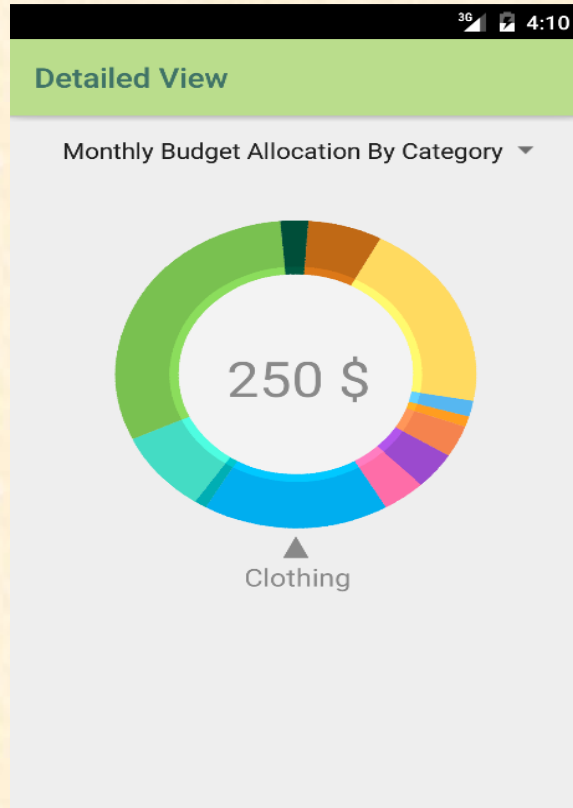




Team MSUFCU Beta Presentation

Team MSUFCU Beta Presentation

Mobile Category Detailed View





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Team Quicken Loans

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Team Quicken Loans Project Overview

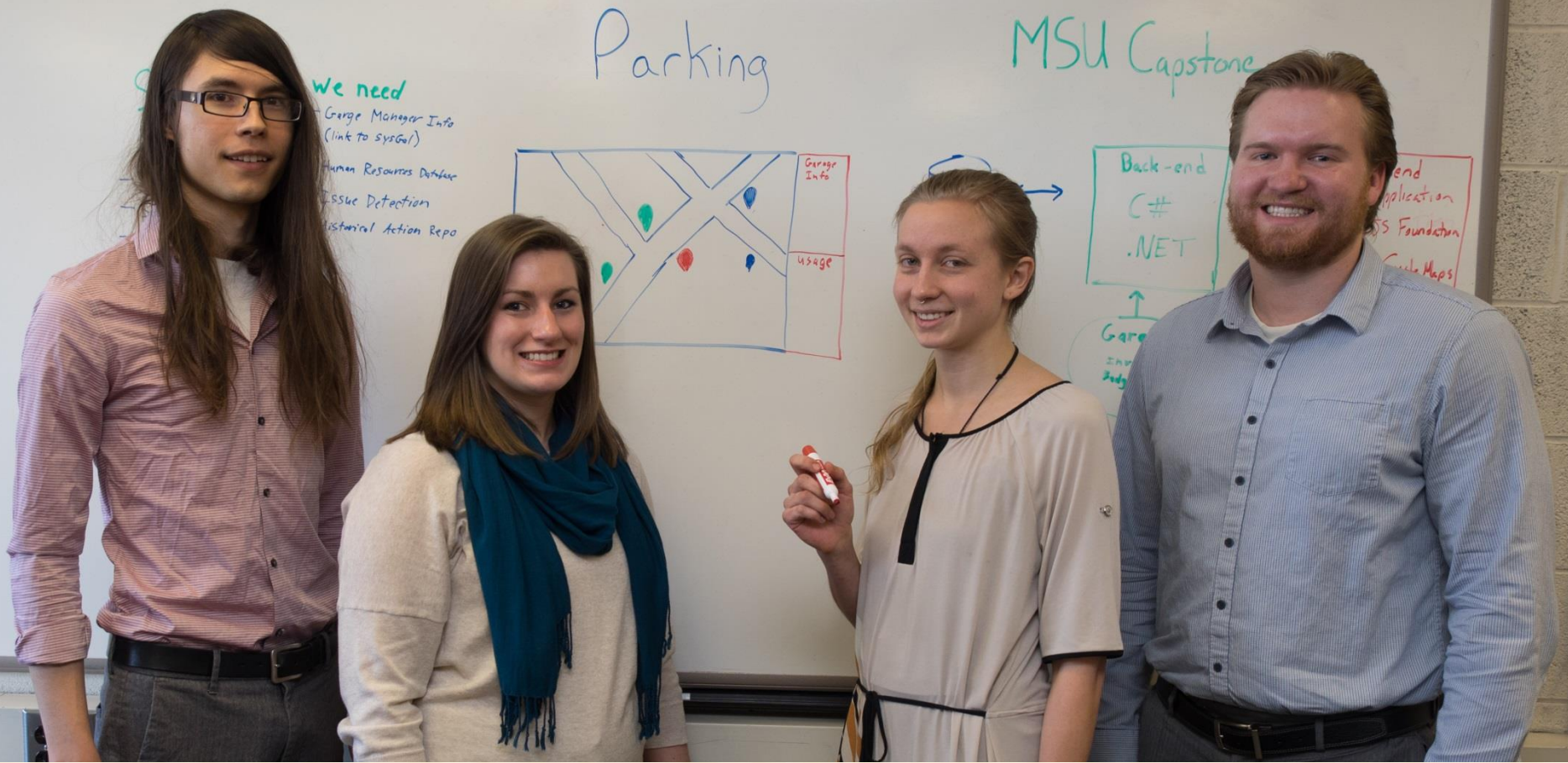
Parking Allocation and Expense Reconciliation

- Functionalities
 - Manage Parking Garage Spaces
 - For 8,000 Quicken Loans Team Members
 - In Multiple Parking Garages
 - In Downtown Detroit
- Features
 - Allocate Parking Spaces to Team Members
 - Process Billing Invoices Electronically
 - Provide Parking Team Dashboard
 - Visualize Parking Garage Space Assignments
 - Monitor Parking Garage Usage
 - Push Capacity-Reached Notifications
 - Reconcile Parking Usage with Billing
 - Integrate into Quicken Loans' Backend
- Technologies
 - Web Development (CSS, HTML, PHP, JavaScript)
 - Microsoft SQL Server
 - Microsoft Visual Studio
 - Microsoft Active Directory



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Detroit, Michigan



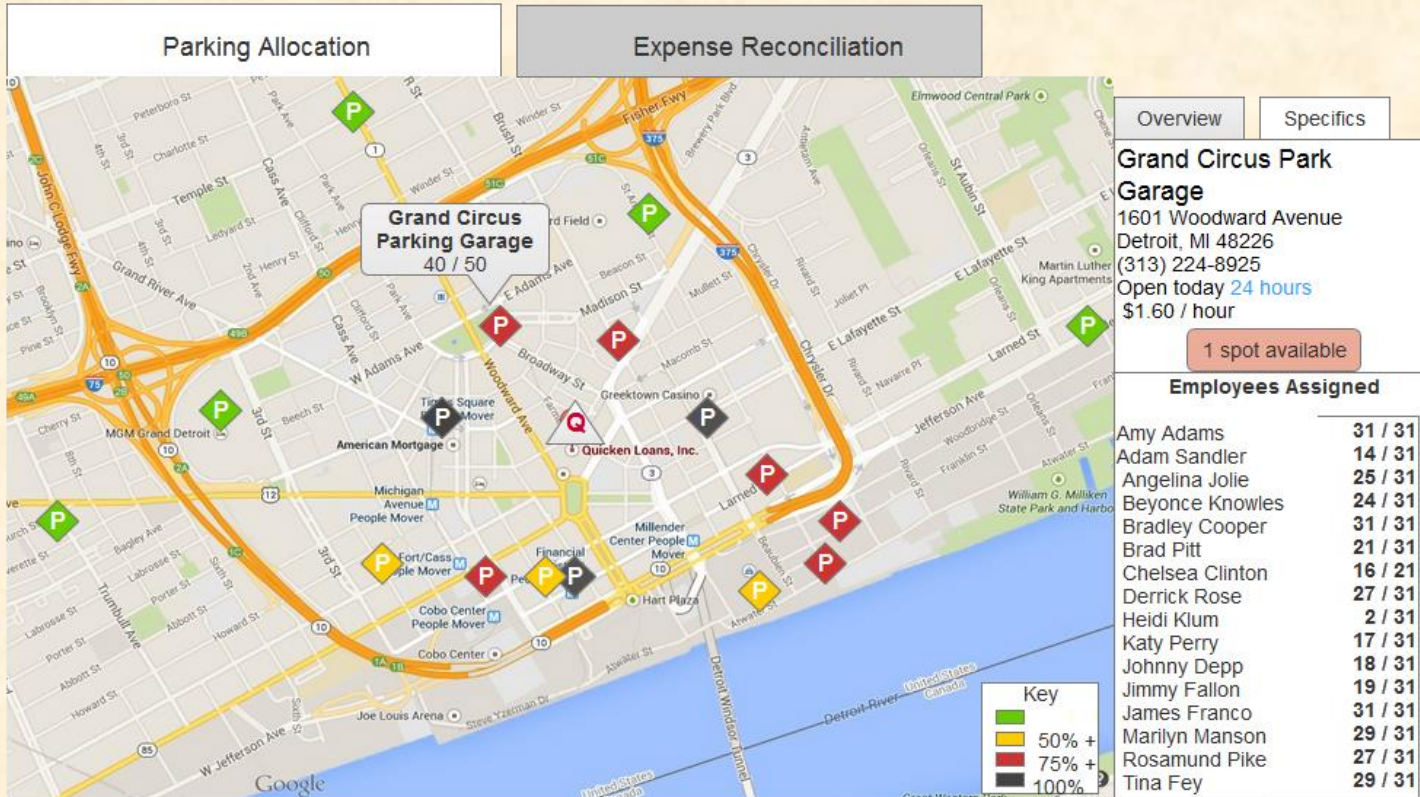


Team Quicken Loans

Tim Hasselbeck, Elizabeth Florian, Chelsea Bridson, Matt Soulliere

Team Quicken Loans Project Plan Presentation

Screen Mockup

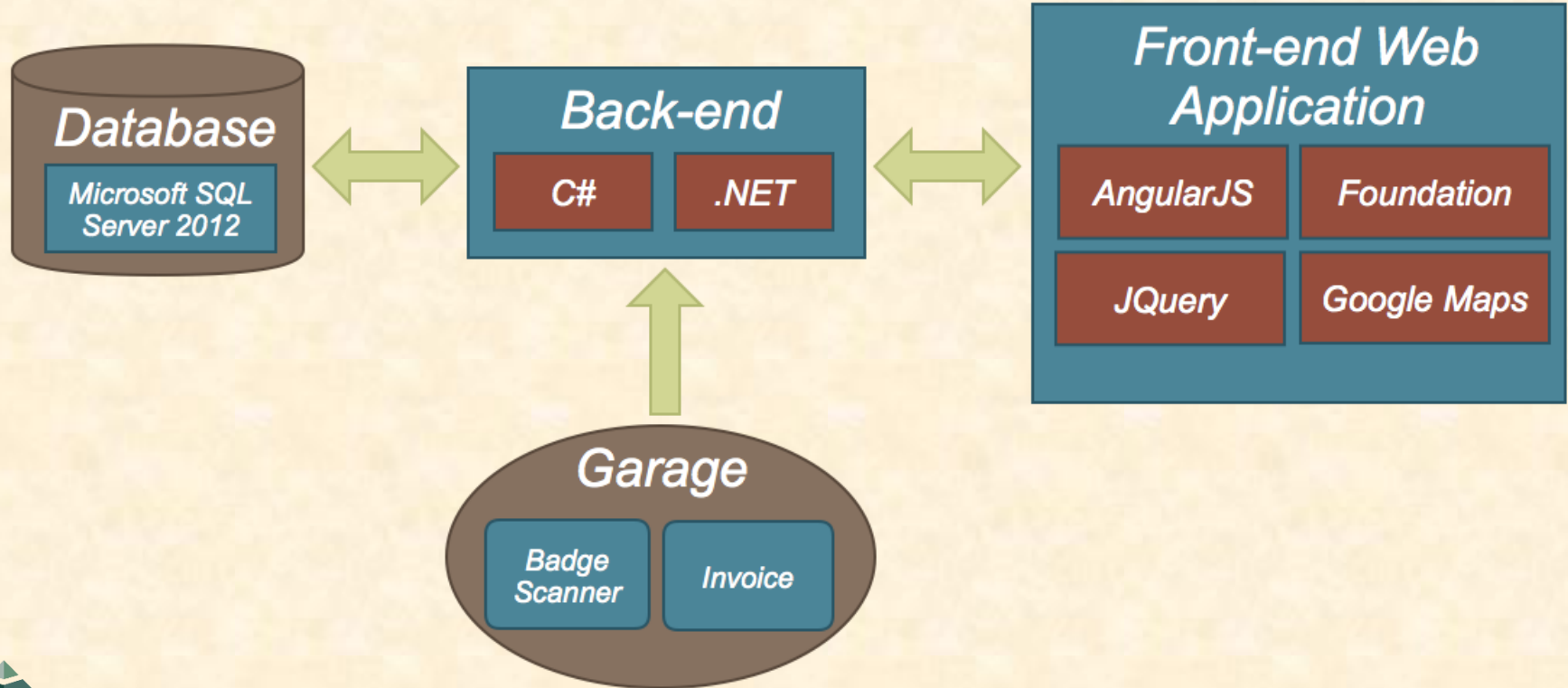




Team Quicken Loans
Project Plan Presentation

Team Quicken Loans Project Plan Presentation

Architecture Diagram

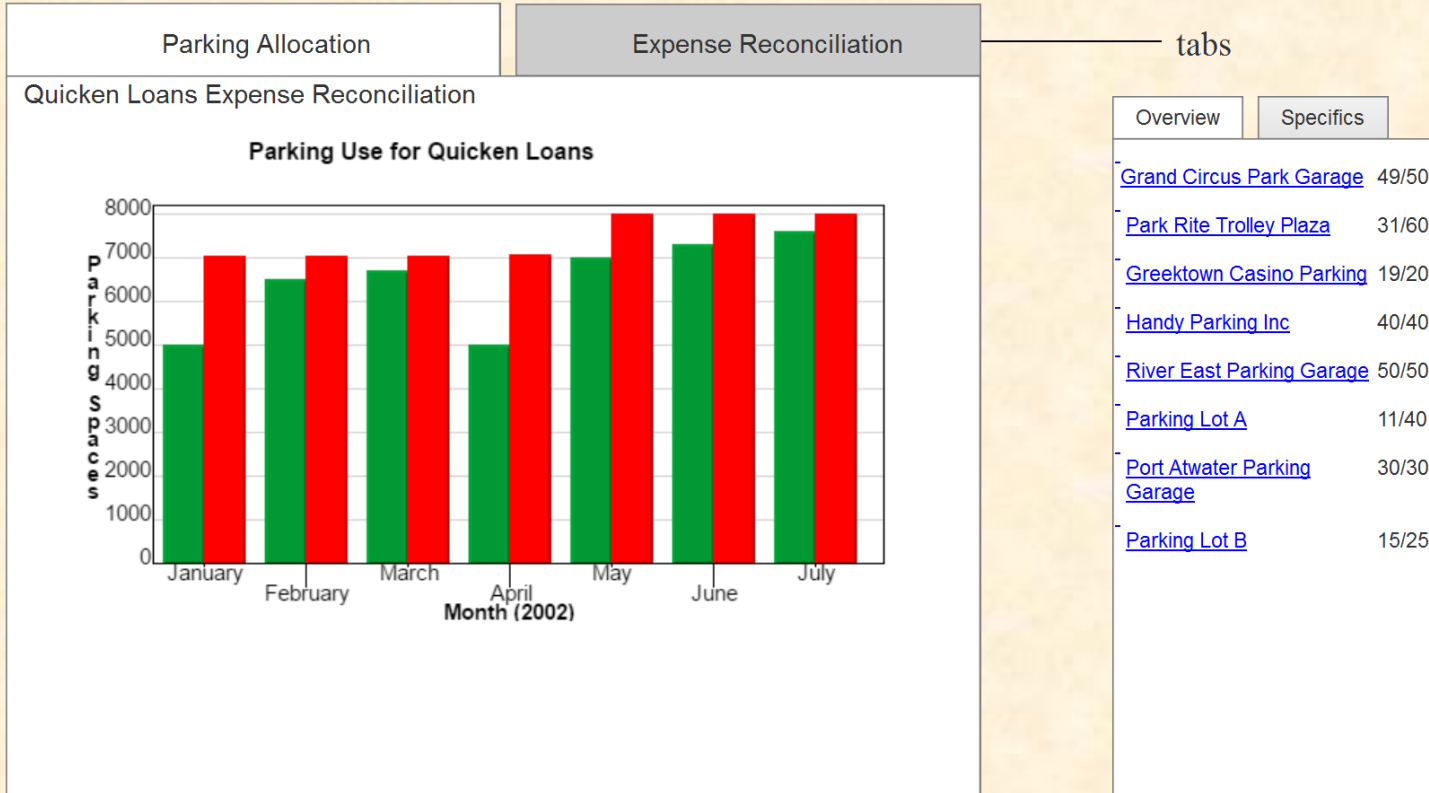


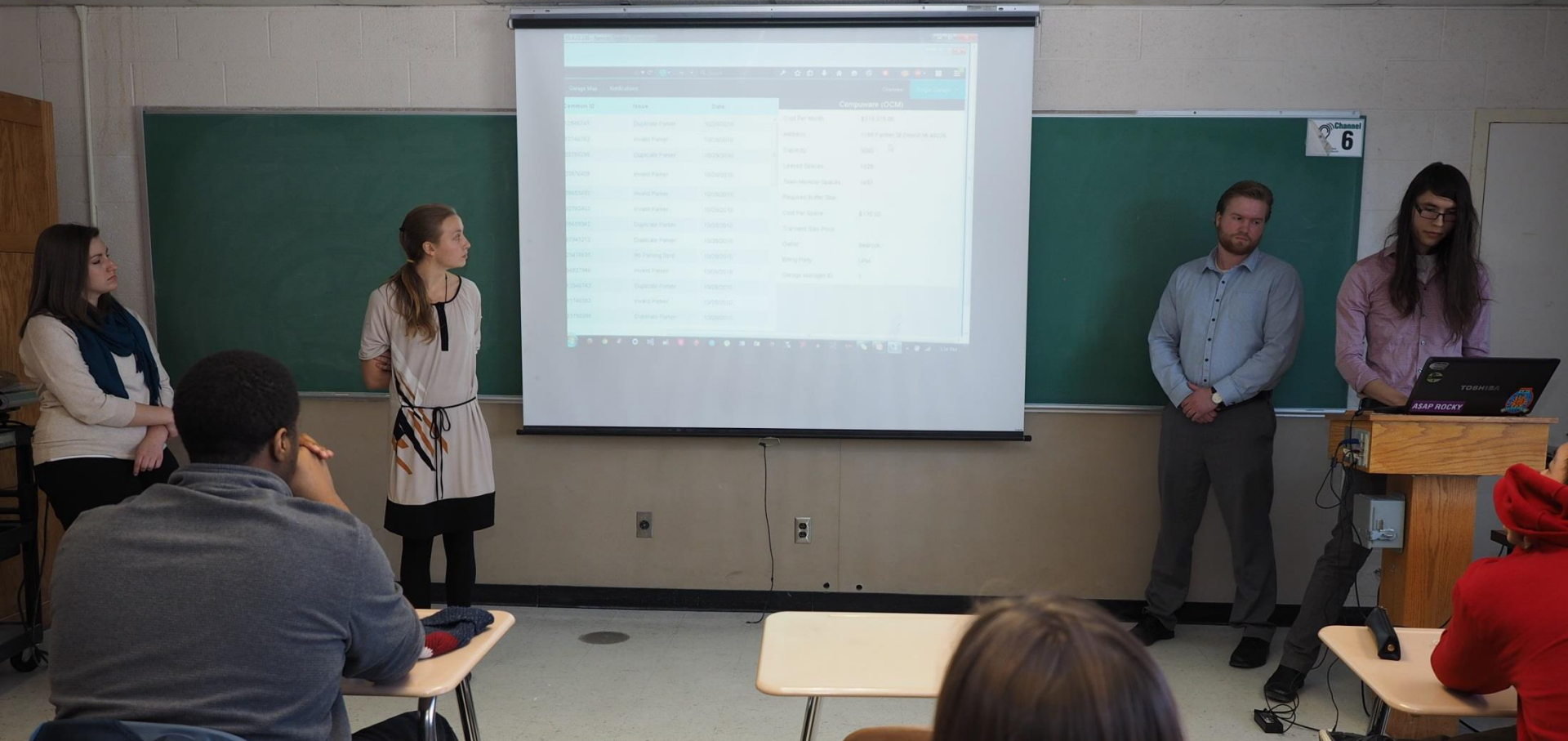


Team Quicken Loans
Project Plan Presentation

Team Quicken Loans Project Plan Presentation

Screen Mockup

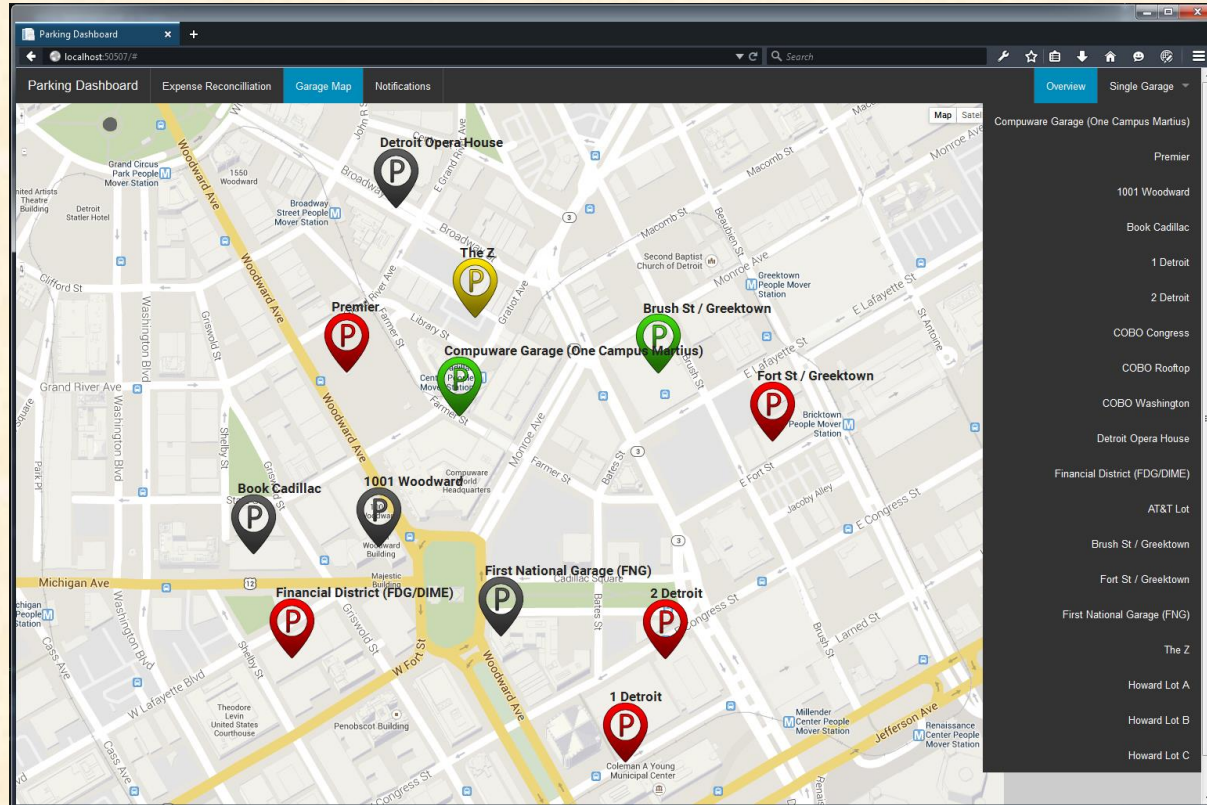




Team Quicken Loans Alpha Presentation

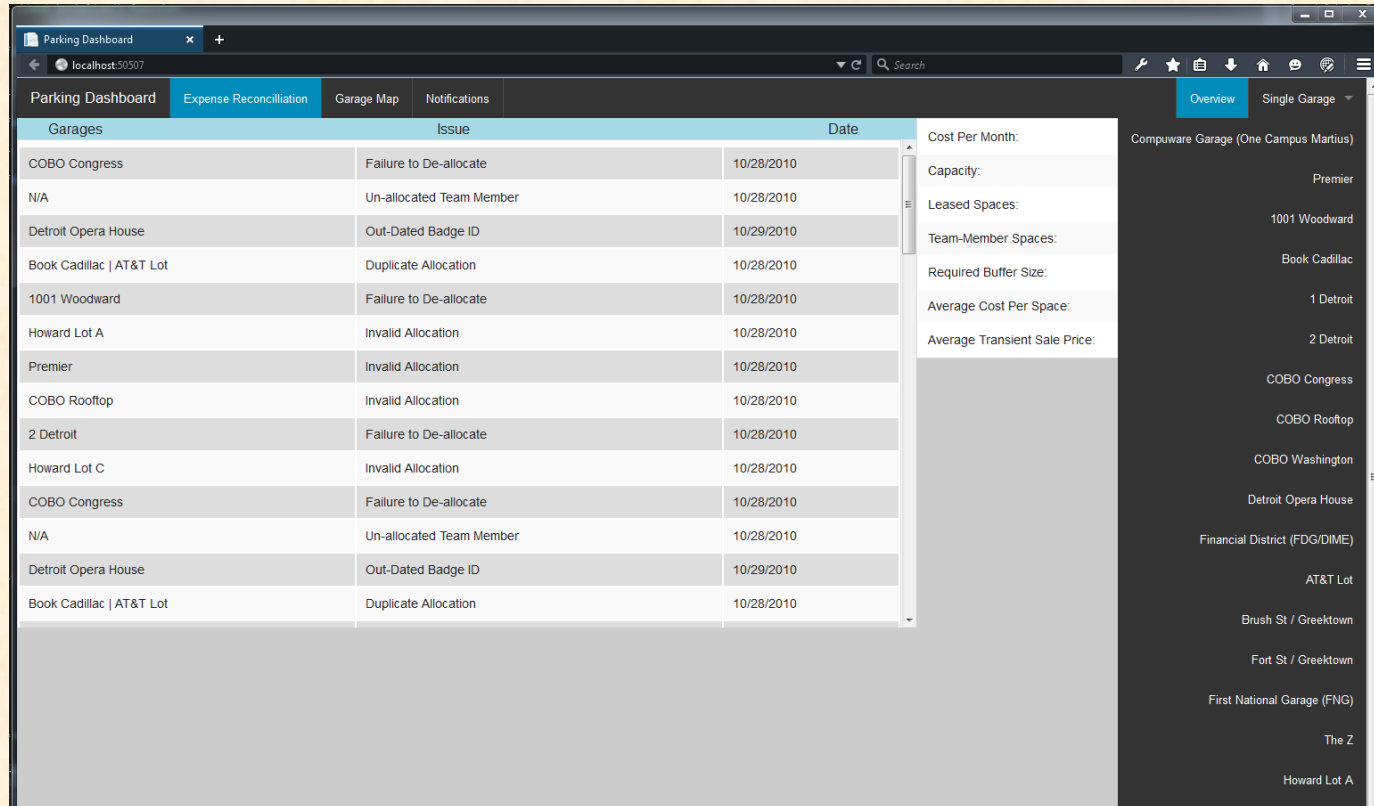
Team Quicken Loans Alpha Presentation

Garage Map



Team Quicken Loans Alpha Presentation

Expense Reconciliation



Garages	Issue	Date
COBO Congress	Failure to De-allocate	10/28/2010
N/A	Un-allocated Team Member	10/28/2010
Detroit Opera House	Out-Dated Badge ID	10/29/2010
Book Cadillac AT&T Lot	Duplicate Allocation	10/28/2010
1001 Woodward	Failure to De-allocate	10/28/2010
Howard Lot A	Invalid Allocation	10/28/2010
Premier	Invalid Allocation	10/28/2010
COBO Rooftop	Invalid Allocation	10/28/2010
2 Detroit	Failure to De-allocate	10/28/2010
Howard Lot C	Invalid Allocation	10/28/2010
COBO Congress	Failure to De-allocate	10/28/2010
N/A	Un-allocated Team Member	10/28/2010
Detroit Opera House	Out-Dated Badge ID	10/29/2010
Book Cadillac AT&T Lot	Duplicate Allocation	10/28/2010

Cost Per Month:

Capacity:

Leased Spaces:

Team-Member Spaces:

Required Buffer Size:

Average Cost Per Space:

Average Transient Sale Price:

Compuware Garage (One Campus Martius)

Premier

1001 Woodward

Book Cadillac

1 Detroit

2 Detroit

COBO Congress

COBO Rooftop

COBO Washington

Detroit Opera House

Financial District (FDG/DIME)

AT&T Lot

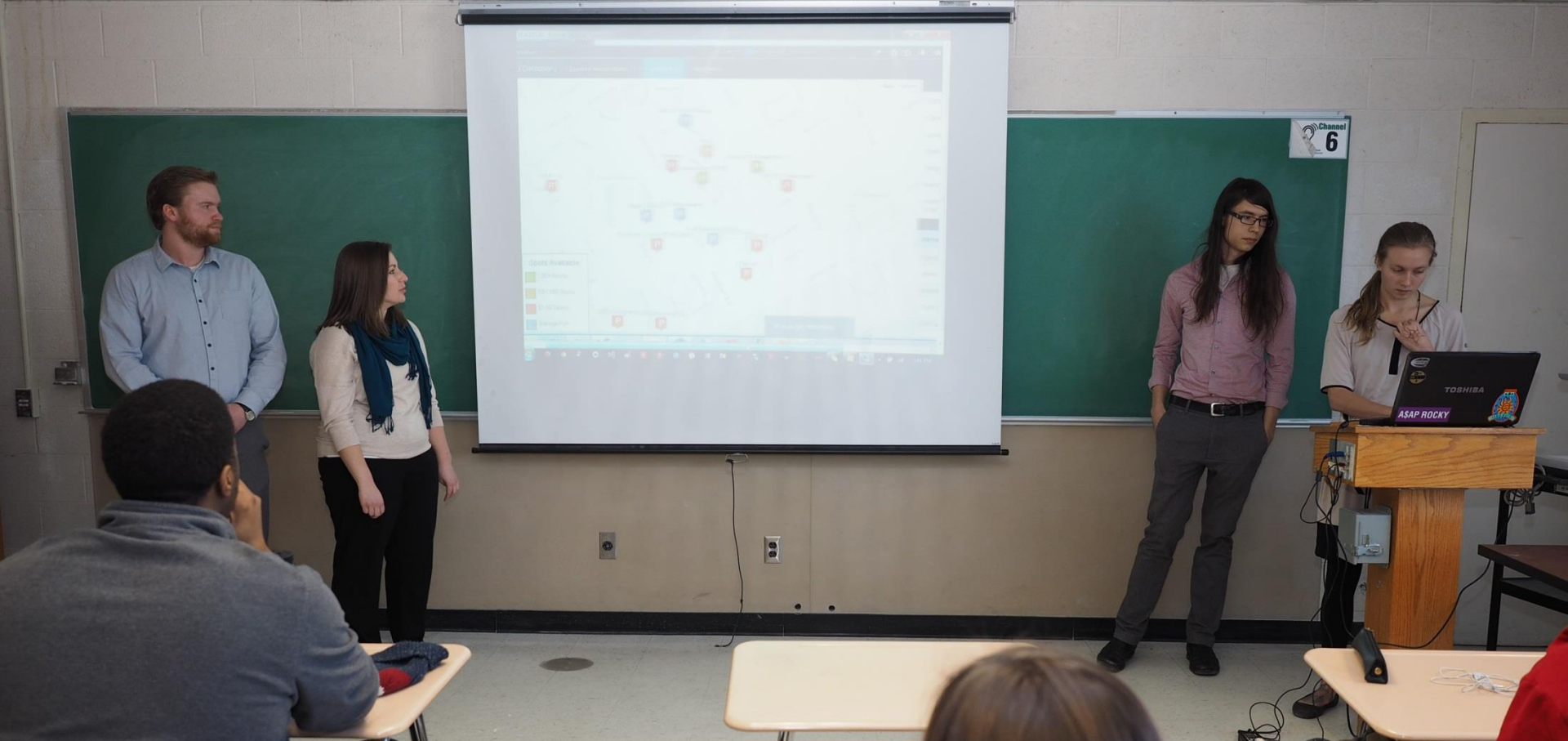
Brush St / Greentown

Fort St / Greentown

First National Garage (FNG)

The Z

Howard Lot A



Team Quicken Loans Alpha Presentation

Team Quicken Loans Alpha Presentation

Invoice Upload

Failure to De-allocate 10/28/2010 Add Invoice

Invoice Submission

Invoice Number:

Garage:

Amount Billed:

Date Received:

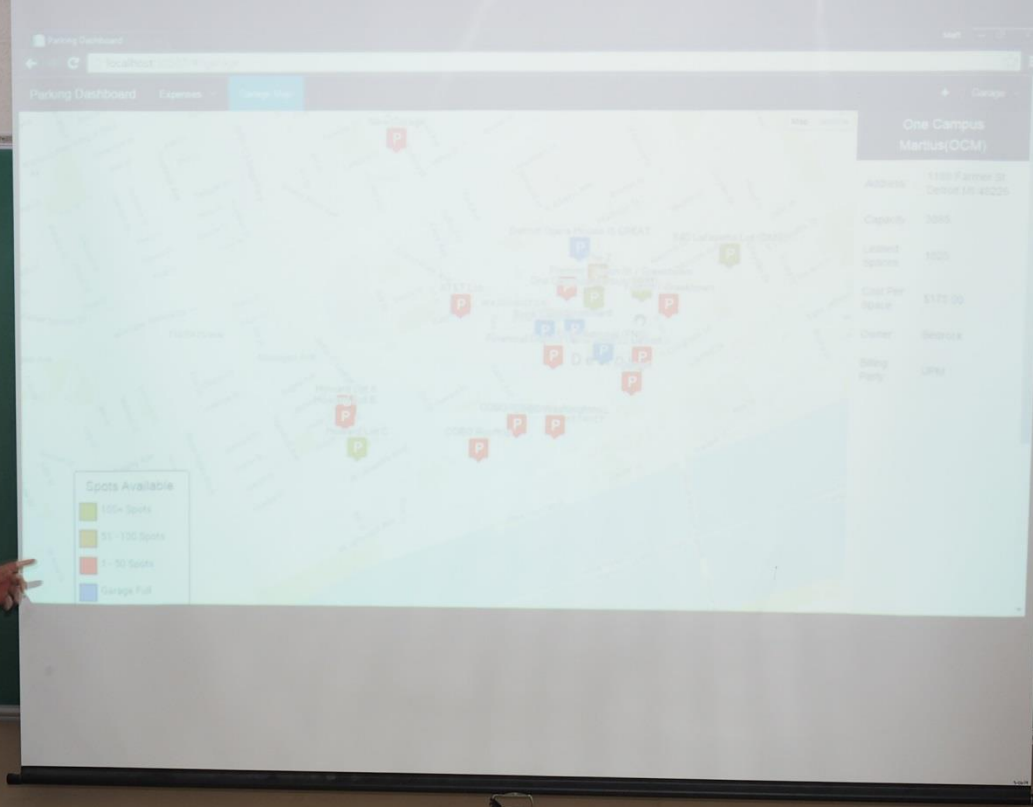
Number of Leased Spots:

Billing Start Date

Number of Validations:

UPM-QL @ 1001WW 122014.xls

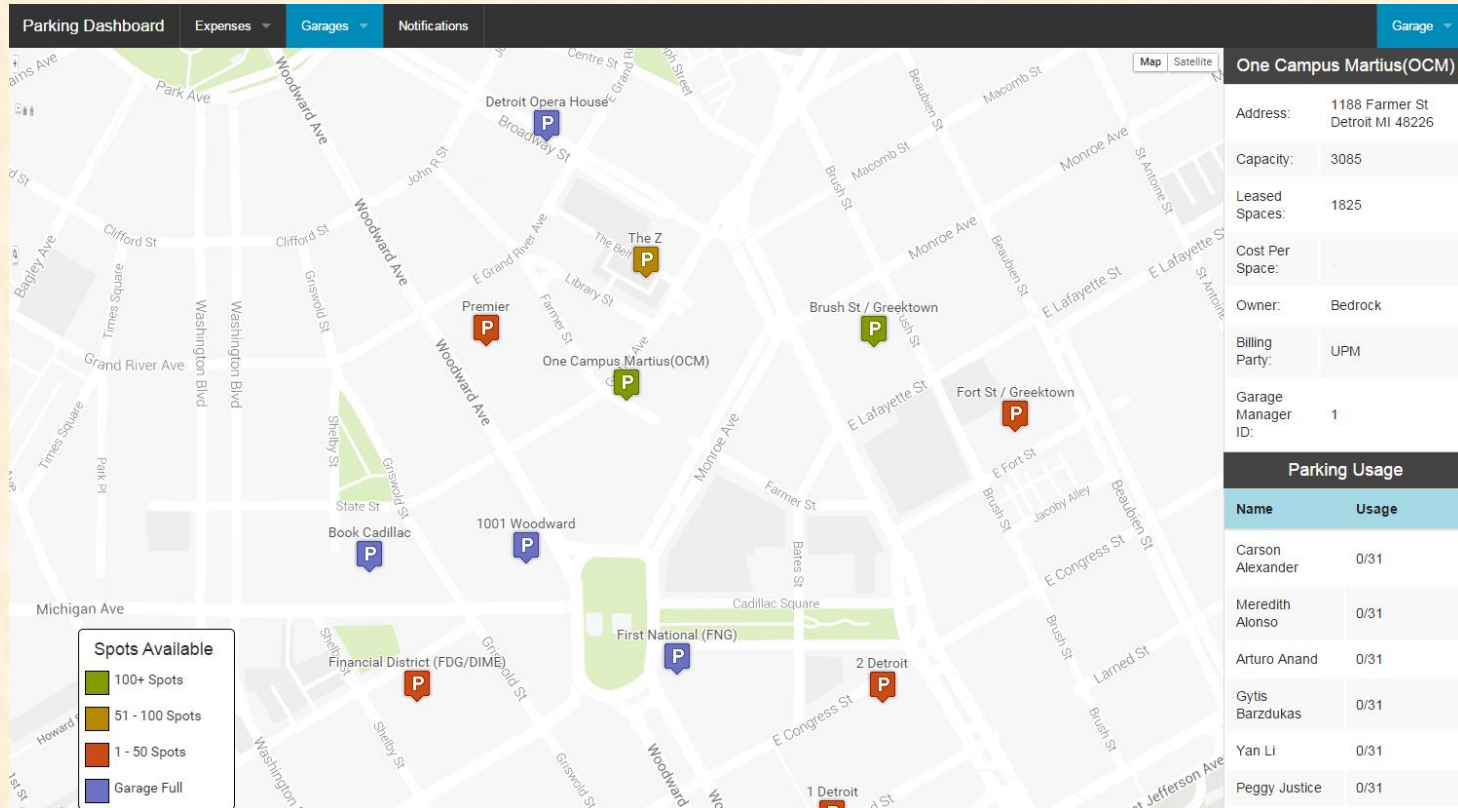




Team Quicken Loans Beta Presentation

Team Quicken Loans Beta Presentation

Garage Map



Team Quicken Loans Beta Presentation

Upload an Invoice

[Parking Dashboard](#)

[Expenses](#)

[Garages](#)

[Notifications](#)

[Upload History](#)

[Upload an Invoice](#)

[Upload a Parker Report](#)

[Upload a Card Activity Report](#)

[Detected Issues](#)

Garage:

Select a file

Upload

Clear





Team Quicken Loans Beta Presentation

Team Quicken Loans Beta Presentation

Identify Discrepancies

Parking Dashboard Expenses Garages Notifications

Identify Discrepancies










This page identifies errors in invoices for a Garage. Here you will select a Garage along with the Month and Year to check for errors. The system will check the database for errors and generate a report to use.

Month/Year

Garage:

Identify Errors Clear

Detected Issues for 1001 Woodward Garage

Name	BadgeID	Action	Date
Louise 	22764	Remove	
Ryan 	21747	Remove	
Diana 	303360	Remove	
Melissa 	42784	Remove	
James 	304387	Remove	
Kevin 	35802	Remove	
John 	21174	Remove	
Dawn 	40171	Remove	
Sean 	45573	Remove	





Team Quicken Loans
Design Day

The Capstone Experience

Team Spectrum Health

Department of Computer Science and Engineering
Michigan State University
Spring 2015



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MEDIAFOR
VENDORSFOR JOB
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Children's Hospital



Flu Vaccinations

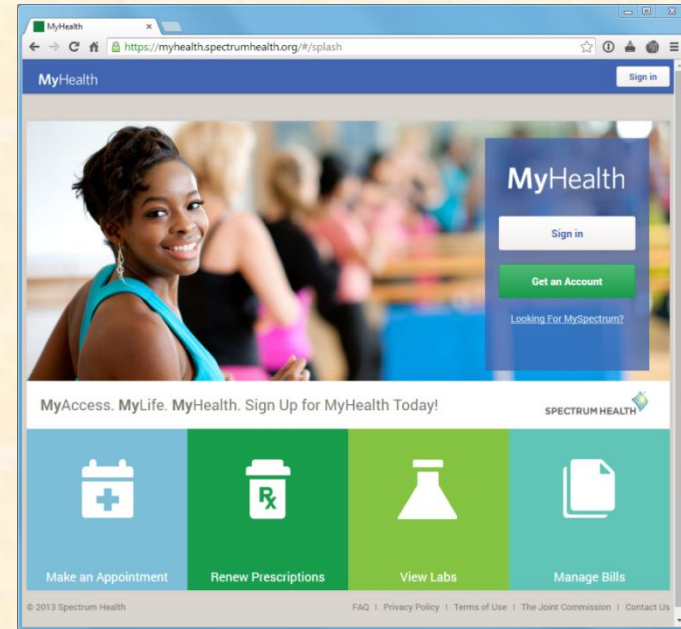


Cancer Genetics

Team Spectrum Health Project Overview

Mobile Appointment Check-In and Payment

- Functionalities
 - Enable Spectrum Health Patient
 - Check-In For Appointment and Pay For Service
 - Using Mobile Device
- Features
 - Check In Patient
 - When Within Certain Distance of Facility
 - Display Appointment Details
 - Accept Payment
 - Support Variety of Payment Options
 - Link Patient Payment Accounts with [MyHealth](#) Account
 - Upload Documents
 - Driver's License
 - Insurance Card
 - Payment Information Like Photo of Credit Card or Check
 - Follow Style of Spectrum's [MyHealth](#) Site
- Technologies
 - Web Development (CSS, HTML, PHP, JavaScript)
 - Google AngularJS
 - RedHat Linux and JBoss
 - Microsoft ASP.net
 - Microsoft Internet Information Services (IIS) 7.0
 - REST and SOAP Web Service Layers
 - iBeacon



SPECTRUM HEALTH

Grand Rapids, Michigan

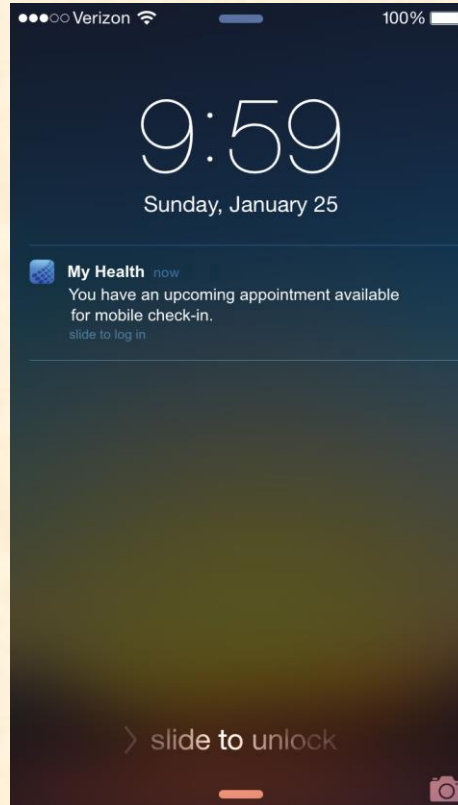




Team Spectrum Health
Joe Reeder, J.J. Peter, Eric Drews, Justin Rush

Team Spectrum Health Project Plan Presentation

Screen Mockup

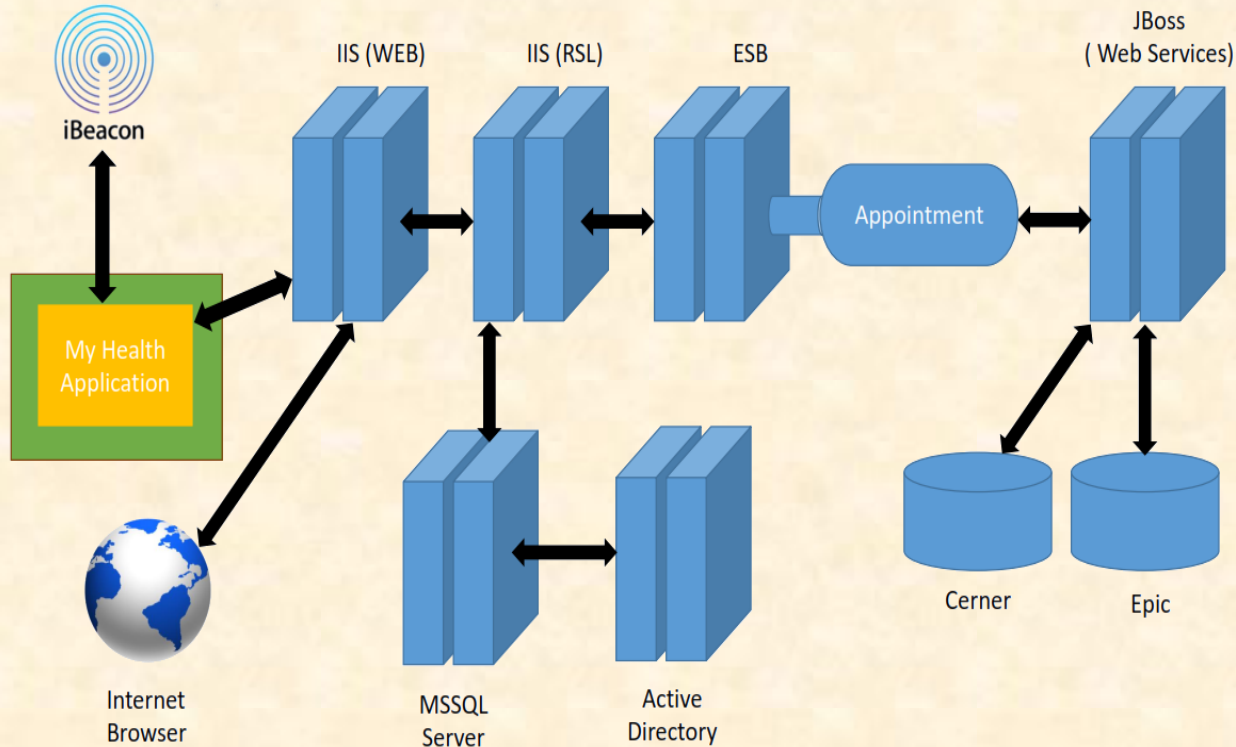


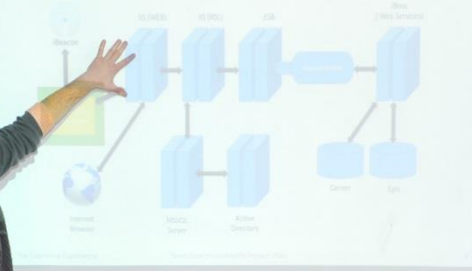


Team Spectrum Health Project Plan Presentation

Team Spectrum Health Project Plan Presentation

Architecture Diagram

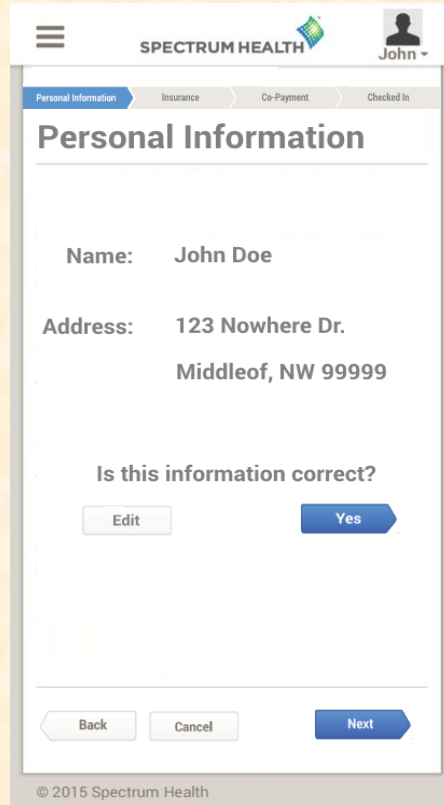




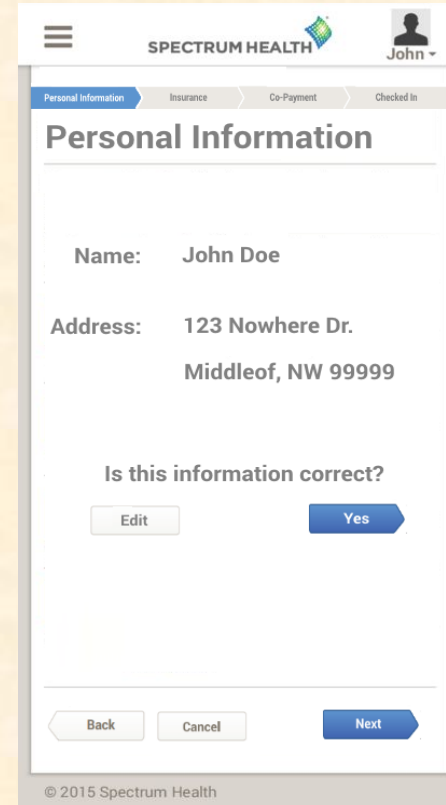
Team Spectrum Health Project Plan Presentation

Team Spectrum Health Project Plan Presentation

Screen Mockups



This is a mobile app screen mockup for the 'Personal Information' screen. At the top, there is a header bar with a hamburger menu icon, the 'SPECTRUM HEALTH' logo, and a user profile icon labeled 'John'. Below the header is a navigation bar with four tabs: 'Personal Information' (active), 'Insurance', 'Co-Payment', and 'Checked In'. The main content area is titled 'Personal Information' and contains two form fields: 'Name: John Doe' and 'Address: 123 Nowhere Dr. Middleof, NW 99999'. Below these fields is a confirmation question 'Is this information correct?' with two buttons: 'Edit' and 'Yes'. At the bottom of the screen are three buttons: 'Back', 'Cancel', and 'Next'. A copyright notice '© 2015 Spectrum Health' is at the very bottom.



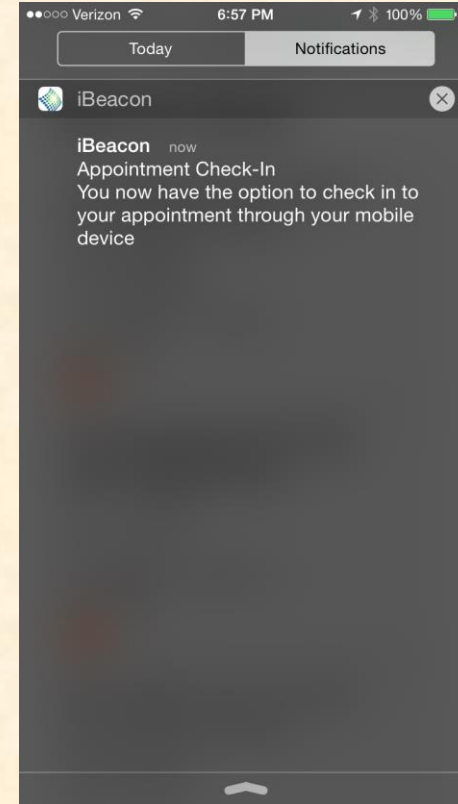
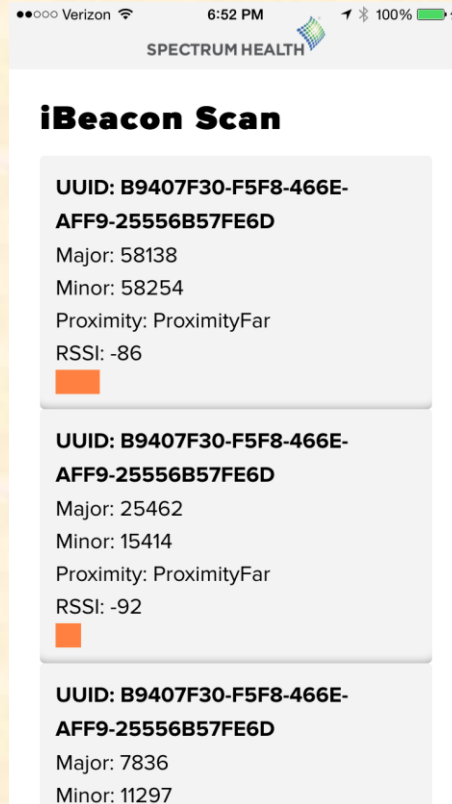
This is a mobile app screen mockup for the 'Personal Information' screen, identical to the one on the left. It features the same header, navigation bar, form fields for 'Name' and 'Address', a confirmation question 'Is this information correct?' with 'Edit' and 'Yes' buttons, and a bottom bar with 'Back', 'Cancel', and 'Next' buttons. The copyright notice '© 2015 Spectrum Health' is also present at the bottom.



Team Spectrum Health Alpha Presentation


Team Spectrum Health Alpha Presentation

iBeacon Scan and Notification



Team Spectrum Health Alpha Presentation

Check-In

SPECTRUM HEALTH

[< Back](#)

Mobile Check-In

Personal

Contact

Insurance

Copayment

Review

EMERGENCY CONTACT INFORMATION

FIRST NAME

LAST NAME

RELATIONSHIP TO YOU

Cancel

Submit Changes

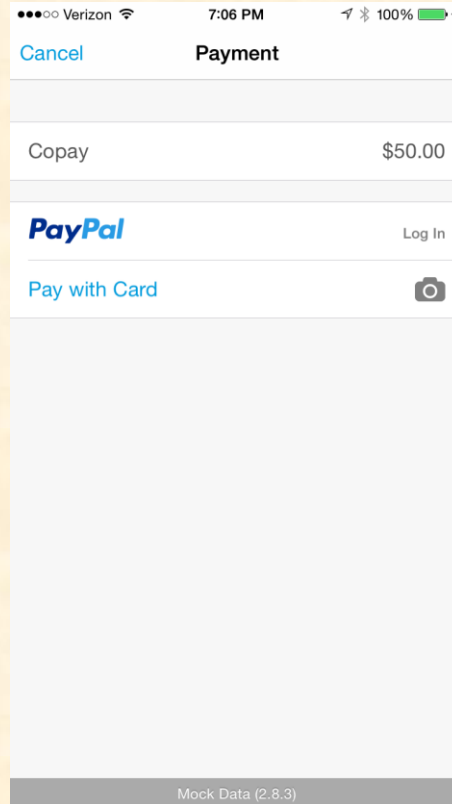
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Team Spectrum Health Alpha Presentation

Payment

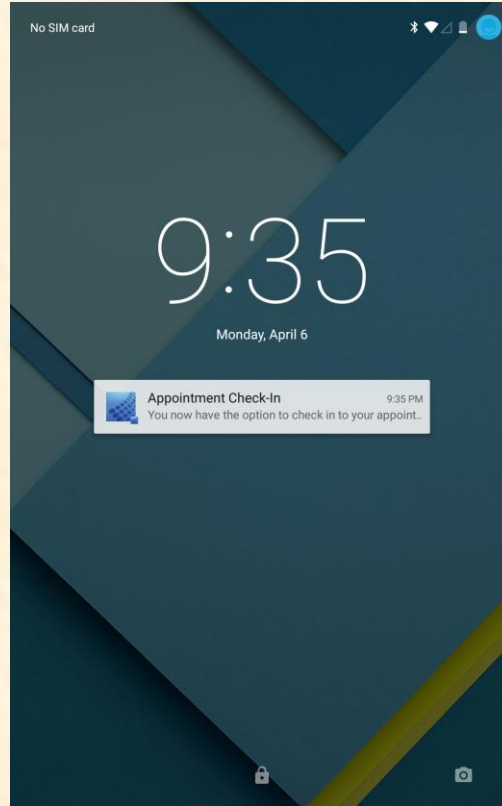




Team Spectrum Health Beta Presentation

Team Spectrum Health Beta Presentation

Check-In Notification



Team Spectrum Health Beta Presentation

Verify Personal Information

Mobile Check-In

Personal Contact Insurance Copayment Review

IS THIS INFORMATION CORRECT?

FIRST NAME RICK

LAST NAME JOHNSON

DATE OF BIRTH 5/8/07 (MM/DD/YYYY)

No, Back Yes, Next

© 2014 Spectrum Health

Mobile Check-In

Personal Contact Insurance Copayment Review

ENTER REVISED INFORMATION

STREET ADDRESS 2001 MAIN ST

STREET ADDRESS 2

CITY WANKERSHIM CITY

STATE LA

ZIPCODE 99876

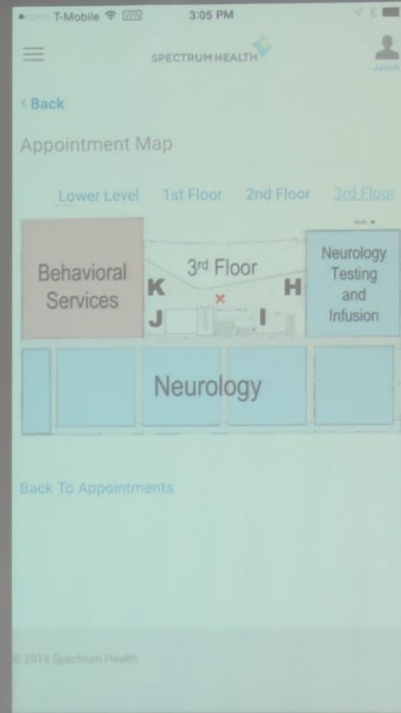
HOME PHONE (248) 743-1278

CELL PHONE (248) 709-8907

EMAIL JOHNSONNR@MSU.EDU

Cancel Submit Changes

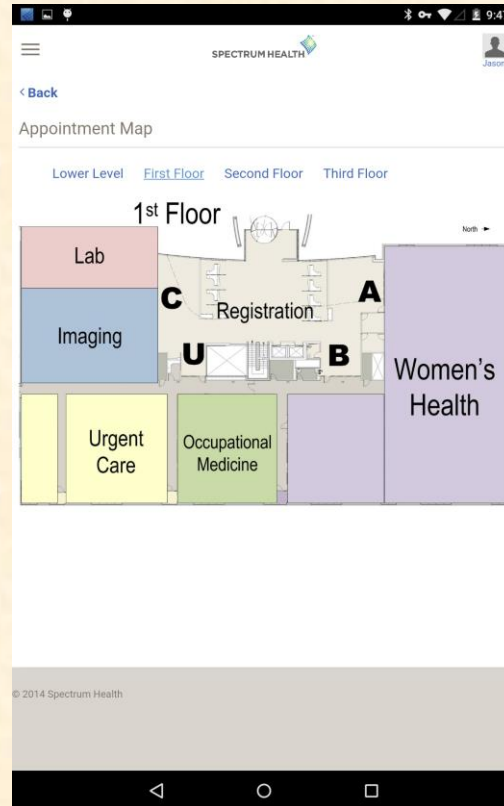
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Team Spectrum Health
Beta Presentation

Team Spectrum Health Beta Presentation

View Map of Building





Team Spectrum Health
Joe Reeder, J.J. Peter, Eric Drews, Justin Rush



Team Spectrum Health
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The Capstone Experience

Team TechSmith

Department of Computer Science and Engineering
Michigan State University
Spring 2015



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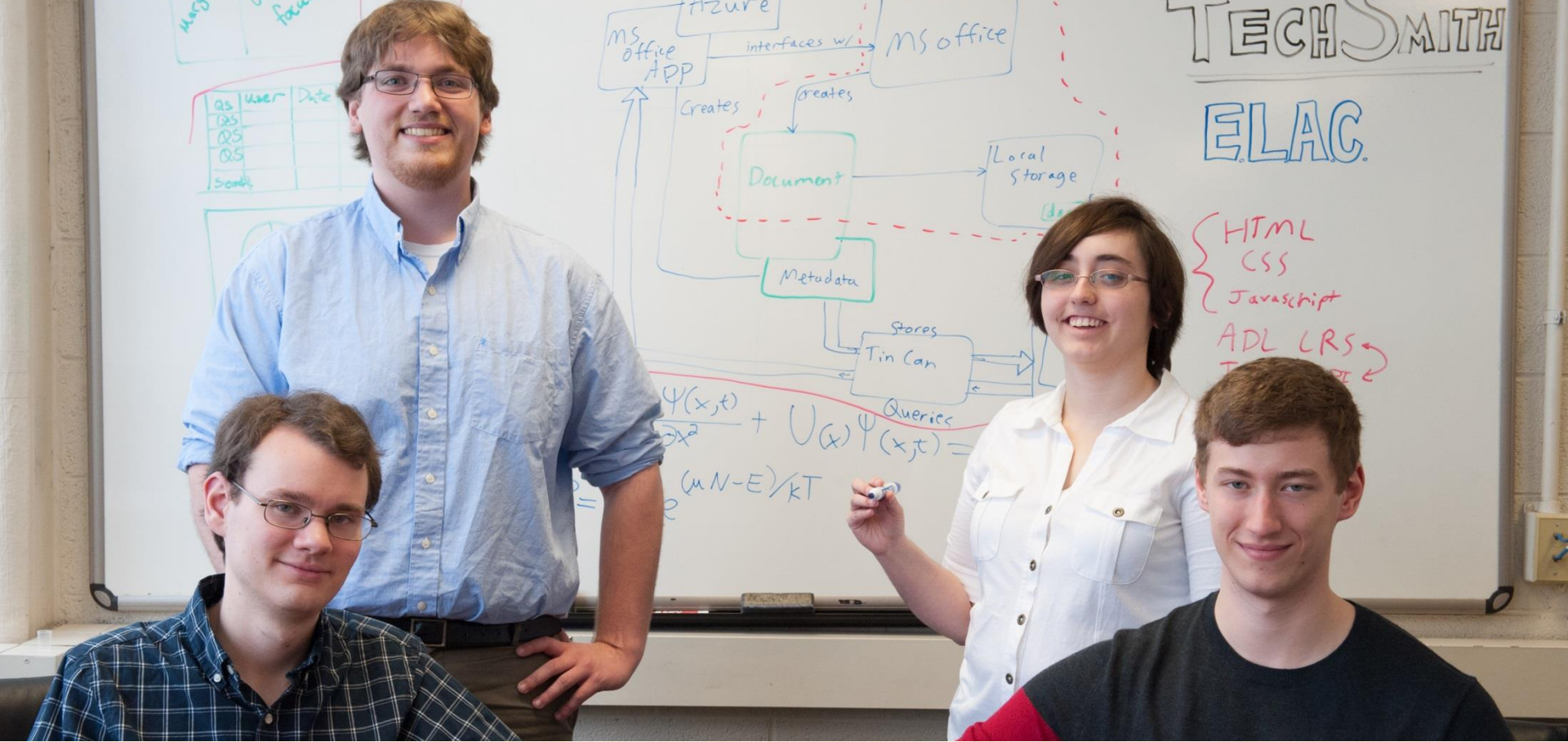
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Team TechSmith Project Overview

Enterprise Learning Activity Capture

- Functionalities
 - Track Digital Learning in an Enterprise
 - By Associating People with Digital Learning Experiences
 - Read a Wikipedia Article
 - Watched a YouTube Video
 - Etc.
- Features
 - Develop Microsoft Office/Office 365 Apps
 - Collect and Send Tin Can API Statements
 - "I know this."
 - "I learned this."
 - "I experienced this."
 - Present Knowledge Views to User
 - Leverage Learning Activity
 - To Entire Enterprise
 - By Exposing Views of Learning Activity
 - Using Microsoft "Office Graph"
- Technologies
 - Tin Can API
 - Advanced Distributed Learning (ADL)
 - Learning Record Store (LRS)
 - Ubuntu
 - Python
 - RESTful Web Services
 - Microsoft Office/Office 365





Team TechSmith

Drew Murray, Ben Blazy, Mariah Gilman, Stephan Hutecke

Team TechSmith Project Plan Presentation

Screen Mockup

Search	Quiz Design	Quiz Data	Viewed	
	User TextBox	Date TextBox	Document TextBox	Authored TextBox
<input type="button" value=""/>				
<input type="button" value=""/>				
<input type="button" value=""/>				
<input type="button" value=""/>				
<input type="button" value=""/>				
<input type="button" value="Search"/>				

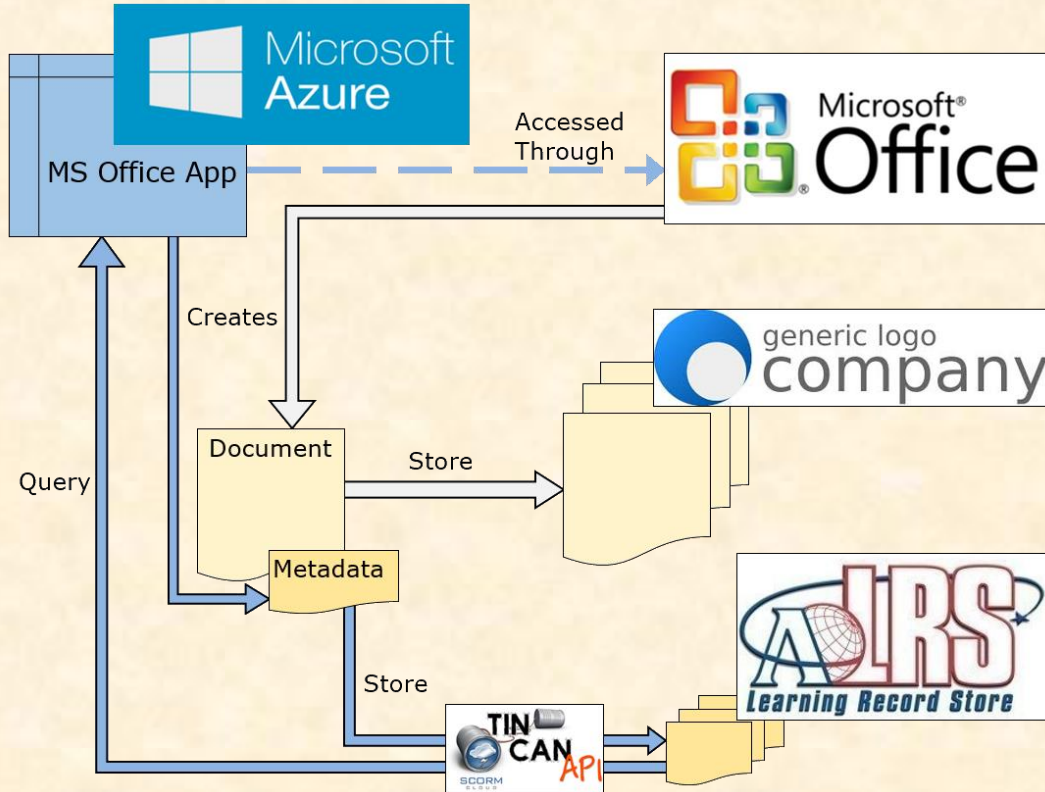


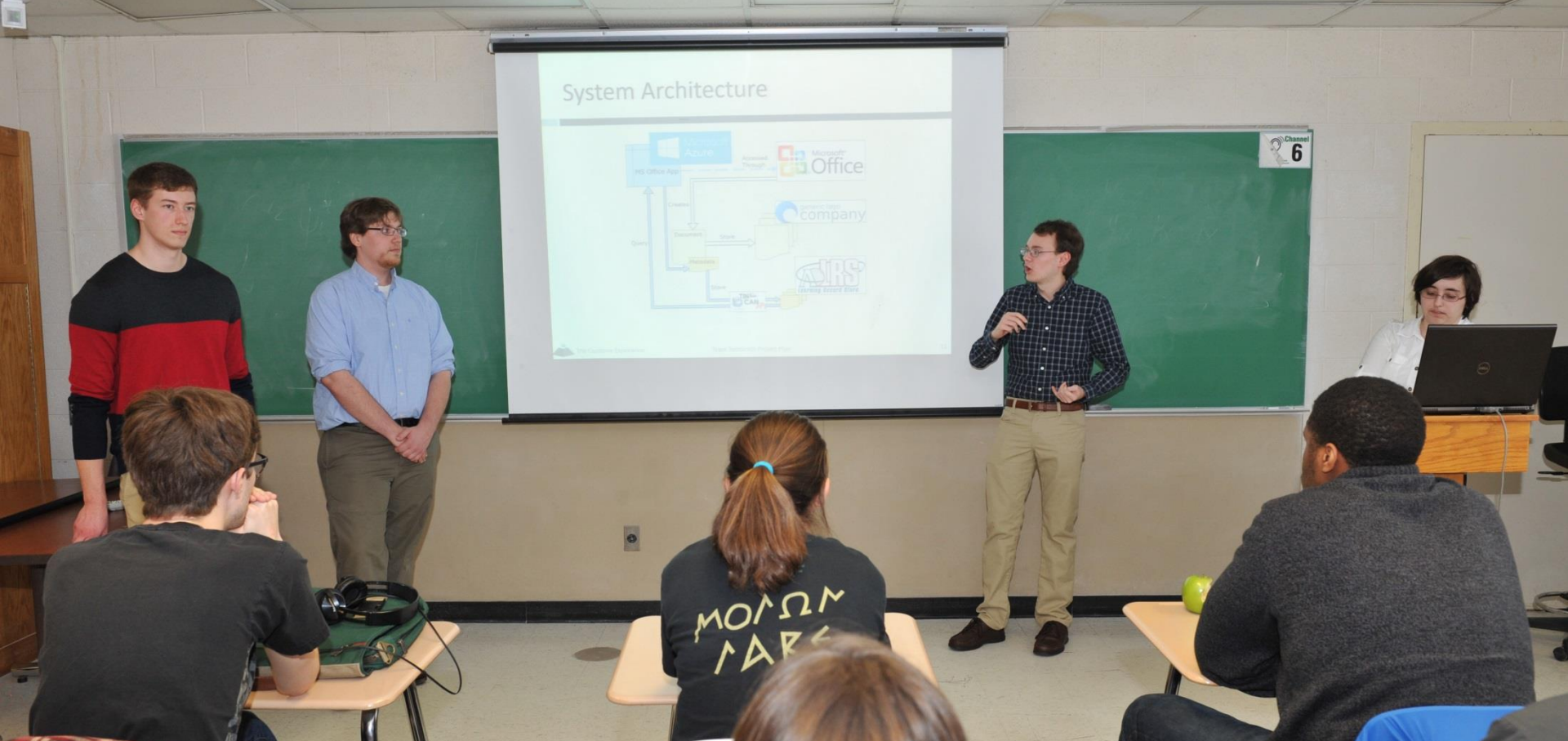


Team TechSmith Project Plan Presentation

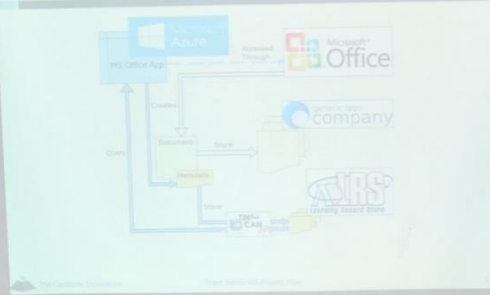
Team TechSmith Project Plan Presentation

Architecture Diagram





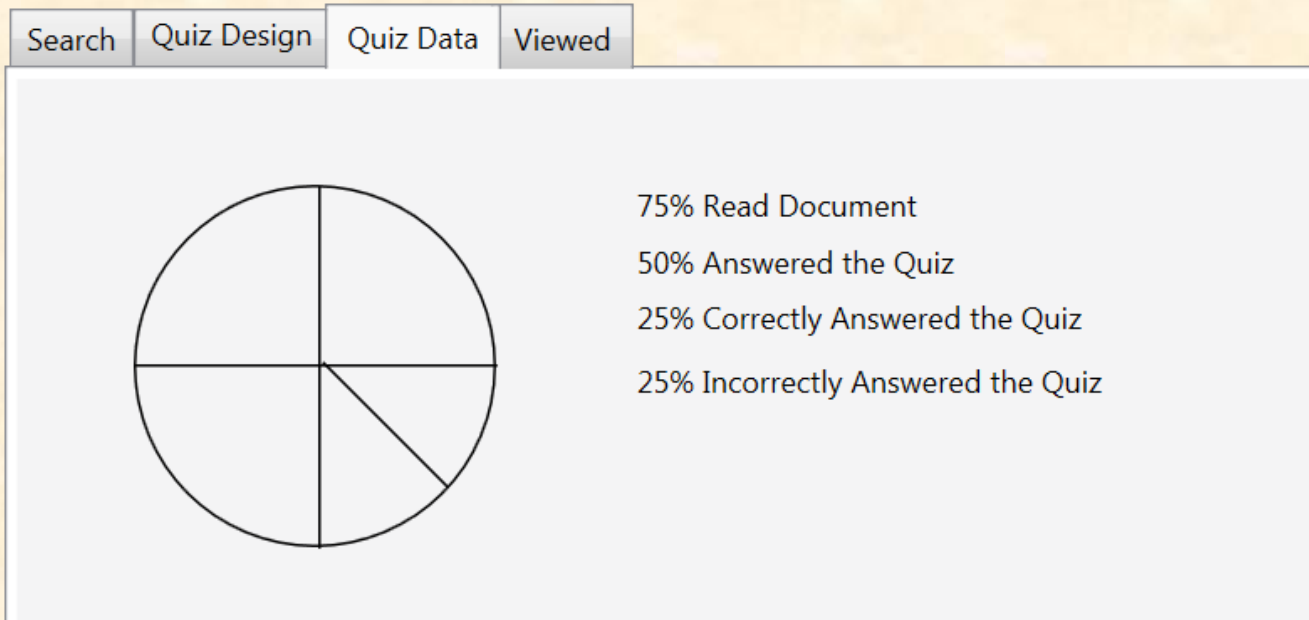
System Architecture

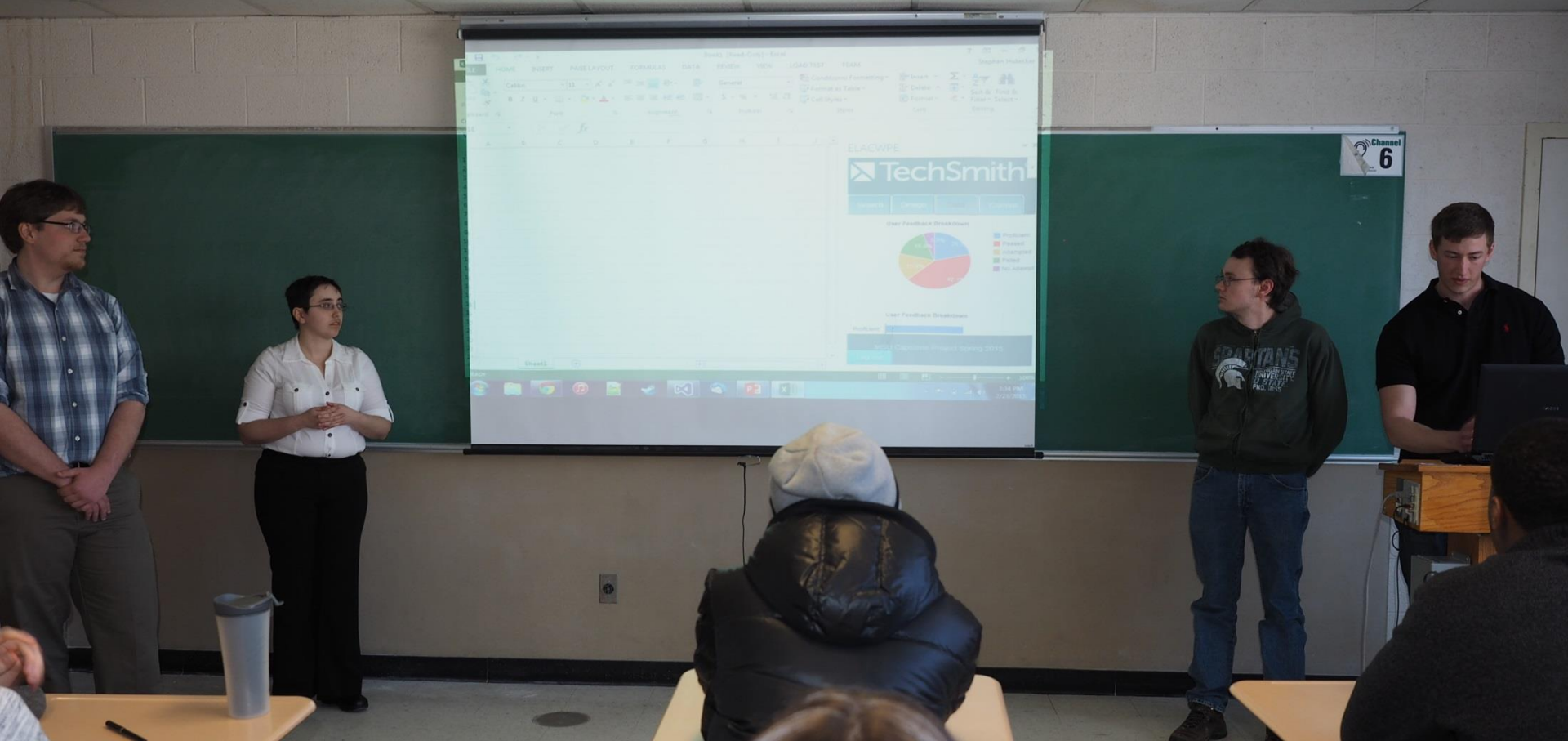


Team TechSmith
Project Plan Presentation

Team TechSmith Project Plan Presentation

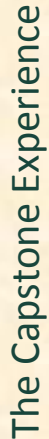
Screen Mockup





Team TechSmith Alpha Presentation


Task Pane App



Team TechSmith Alpha Presentation

Login and Search

ELACWPE




Username

Password

Login

ELACWPE



Search Design Data Current

QS 1 QS 2 QS 3 QS 4 Search

User	Date	Document	Author
	2015-2-22		
test	2015-02-22T01:56:58.512Z	Book1	Unknown Author
test	2015-02-22T01:56:41.083Z	Book1	Unknown Author
test	2015-02-21T22:11:34.612Z	Book1	Unknown Author
test	2015-02-21T22:11:24.214Z	Book1	Unknown Author
1	2015-02-21T22:10:12.485Z	Book1	Unknown Author
1	2015-02-21T21:33:48.473Z	Book1	Unknown Author



Team TechSmith Alpha Presentation

Team TechSmith Alpha Presentation

Quiz Design and Results

ELACWPE

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Radio Check Text

Make your Own Radio Button Quiz!

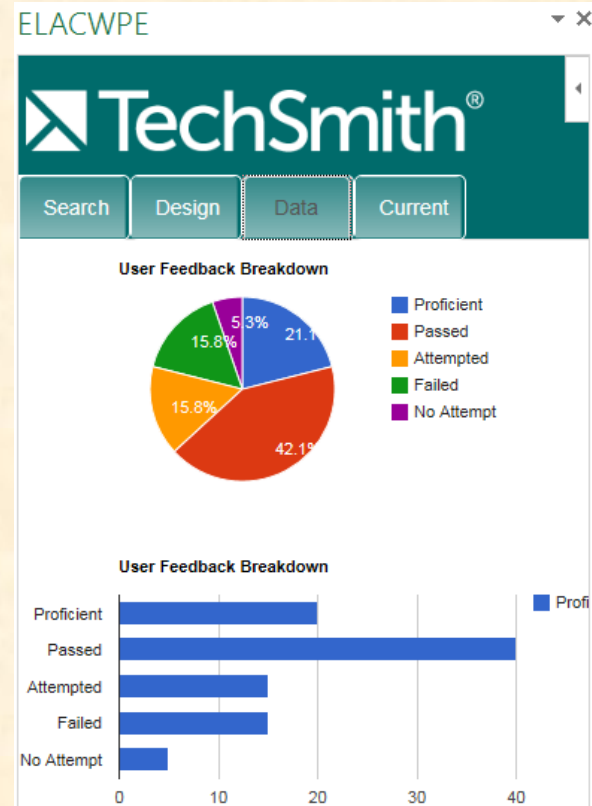
☐

☐

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Submit






Team TechSmith Beta Presentation

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Search Tab



Search Current Design


QS 1 QS 2 QS 3 QS 4 Search

Double click to set quick searches

User	Date	Subject	Author
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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Log out



Search Current Design

QS 1 QS 2 QS 3 QS 4 Search

Double click to set quick searches


User	Date	Subject	Author
alpha	<input type="text"/>	<input type="text"/>	<input type="text"/>
alpha	04/03/2015	Book1	Unknown
alpha	04/03/2015	Book1	Unknown
alpha	04/03/2015	Book1	Unknown
alpha	04/03/2015	Book1	Unknown
alpha	04/03/2015	Book1	Unknown
alpha	04/03/2015	Book1	Unknown
alpha	04/02/2015	Book1	Unknown
alpha	04/02/2015	Book1	Unknown
alpha	04/02/2015	Book1	Unknown
alpha	04/02/2015	Book1	Unknown

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Taking a Quiz



Search Current Quiz Data

Submit

Question 1. test

- ☐ : answer1
- ☐ : answer2
- ☐ : answer3
- ☐ : answer4
- ☐ : answer5


Question 2. test

- ☐ : answer6
- ☐ : answer7
- ☐ : answer8
- ☐ : answer9
- ☐ : answer0

Question 3. test

MSU Capstone Project Spring 2015

Log out



Search Current Quiz Data

Submit

Question 1. test

- ☒ : answer1
- ☐ : answer2
- ☐ : answer3
- ☐ : answer4
- ☐ : answer5

Question 2. test

- ☐ : answer6
- ☐ : answer7
- ☐ : answer8
- ☒ : answer9
- ☐ : answer0

Question 3. test

MSU Capstone Project Spring 2015

Log out

Quiz Submitted

Quiz has been submitted successfully!

Your score was: 1/3

Ok

Question 1. test

- ☐ : answer1
- ☐ : answer2
- ☐ : answer3
- ☐ : answer4
- ☐ : answer5

Question 2. test

- ☐ : answer6
- ☐ : answer7
- ☐ : answer8
- ☒ : answer9
- ☐ : answer0

Question 3. test

MSU Capstone Project Spring 2015

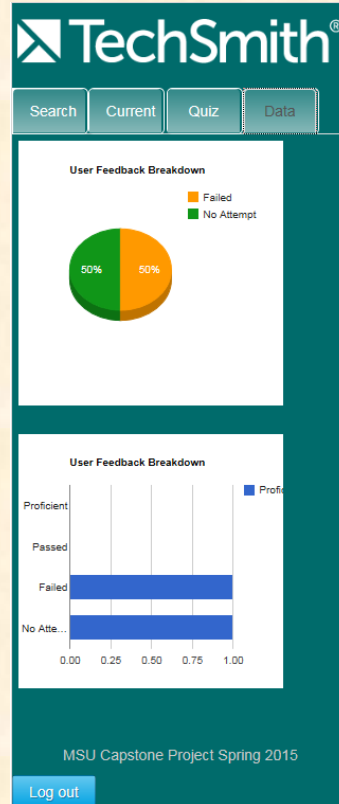
Log out



Team TechSmith Beta Presentation

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[View Quiz Statistics](#)





Team TechSmith
Design Day

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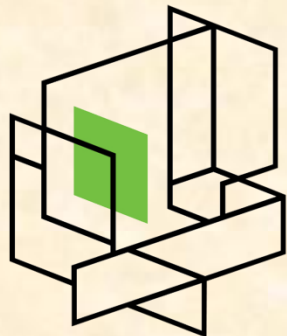
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Team Urban Science

Department of Computer Science and Engineering
Michigan State University
Spring 2015



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Develop Dealer Network

Improve Dealer Performance

Manage Leads

Optimize Marketing

The Power of 4™



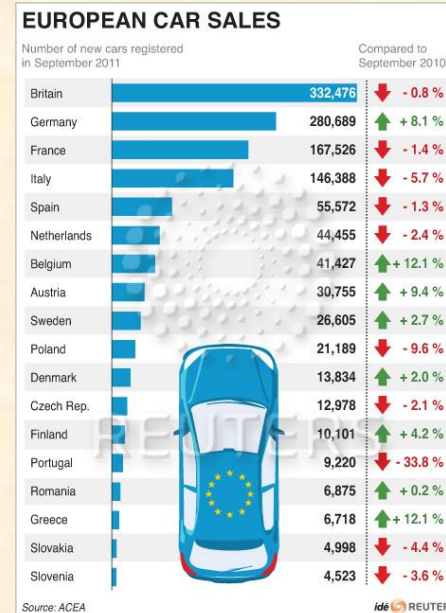
PEOPLE x DATA x PROCESS x TECHNOLOGY = BEST-IN-CLASS SOLUTIONS



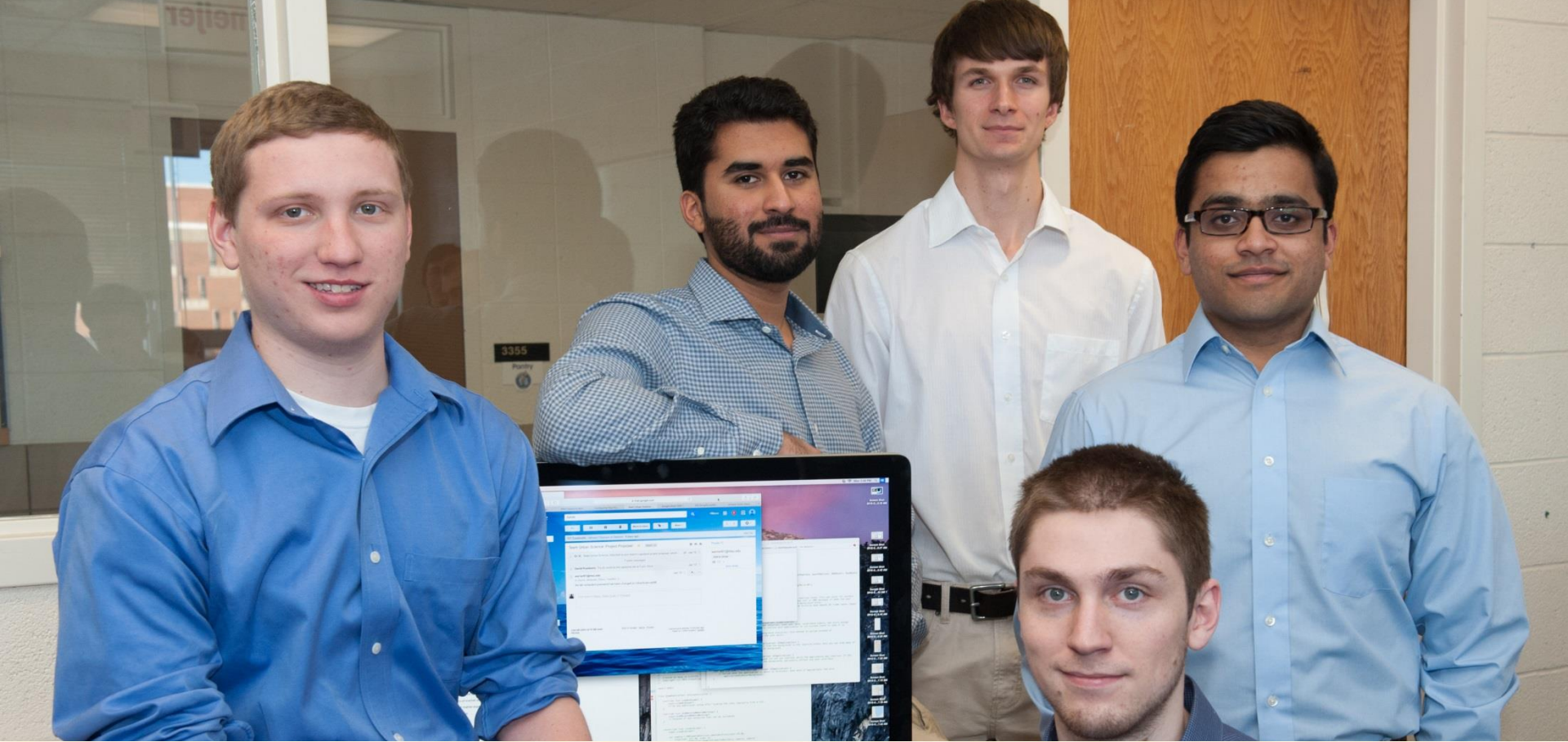
Team Urban Science Project Overview

Global Dealer Census and Market Share Viewer

- Functionalities
 - Empower Automobile Global Marketing Managers
 - Understand What Cars Are Selling and Where
 - Relate to the Competition
- Features
 - Native Support For Android Tablets and iPads
 - Visualize Market Data by Country
 - Sales
 - Market Share
 - Number of Dealerships and Competitor's Dealerships
 - Display Graphs and Maps
 - Various Management Levels Views Up to CEO
 - Include Drill Down Capabilities By Region and Country
 - Push Notifications re New Data
 - Provide Administrative Web Interface
- Technologies
 - iPhone and Android Development (Objective-C, Java)
 - Web Development (CSS, HTML, PHP, JavaScript)
 - Microsoft SQL Server
 - Microsoft Visual Studio



URBAN SCIENCE
Detroit, Michigan



Team Urban Science

Lucas Madill, Abdulla Alkawai, David Pusdesris, David Warner, Dhruv Rajput

Team Urban Science Project Plan Presentation

Screen Mockups

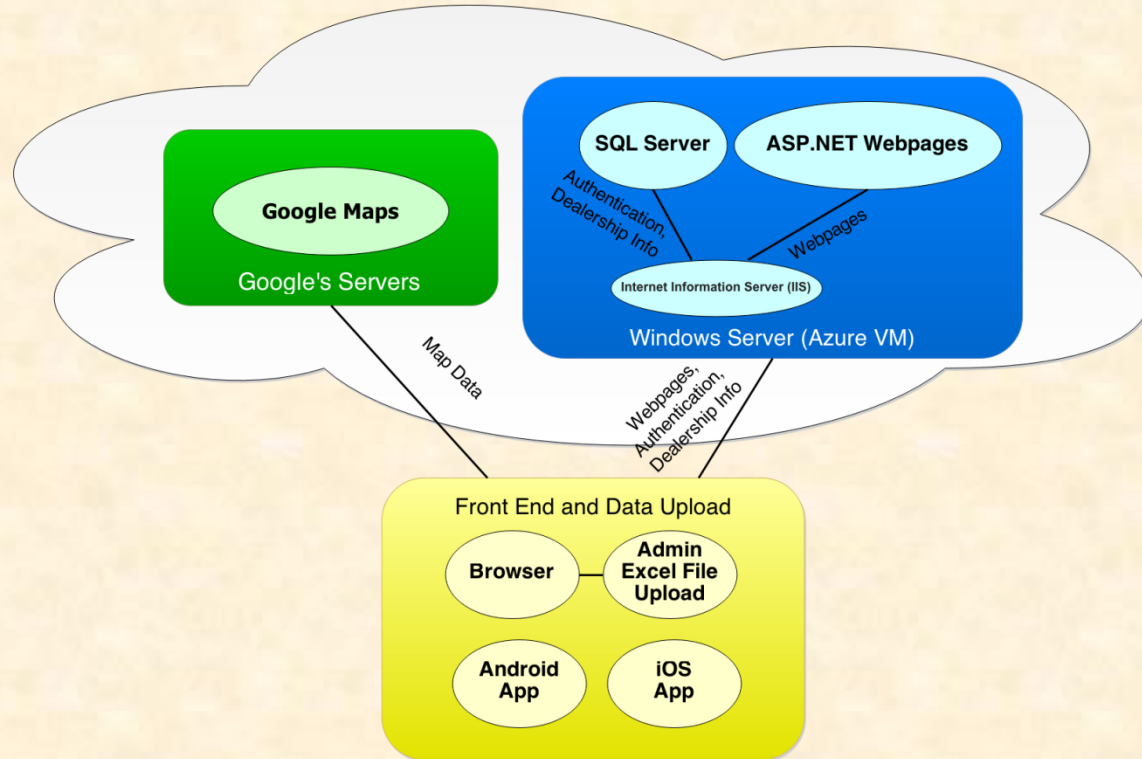




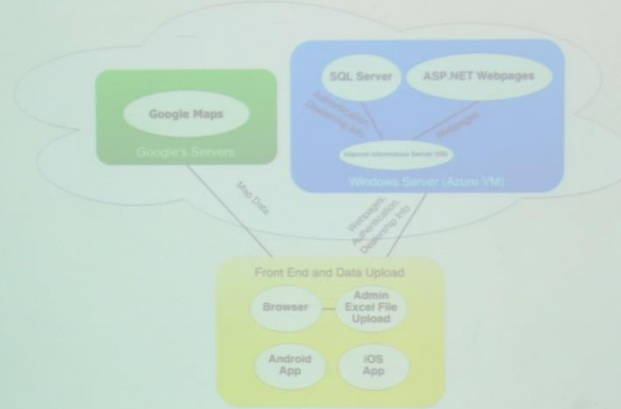
Team Urban Science Project Plan Presentation

Team Urban Science Project Plan Presentation

Architecture Diagram



Technical Specifications & System Architecture



Team Urban Science
Project Plan Presentation

Team Urban Science Project Plan Presentation

Screen Mockups

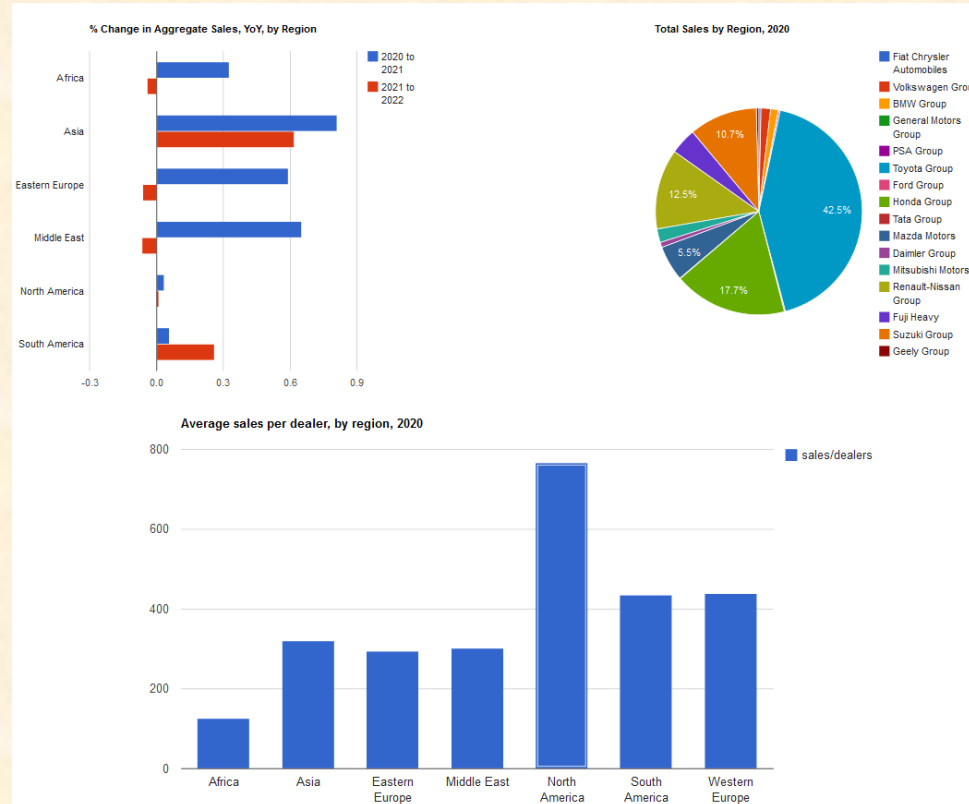




Team Urban Science Alpha Presentation

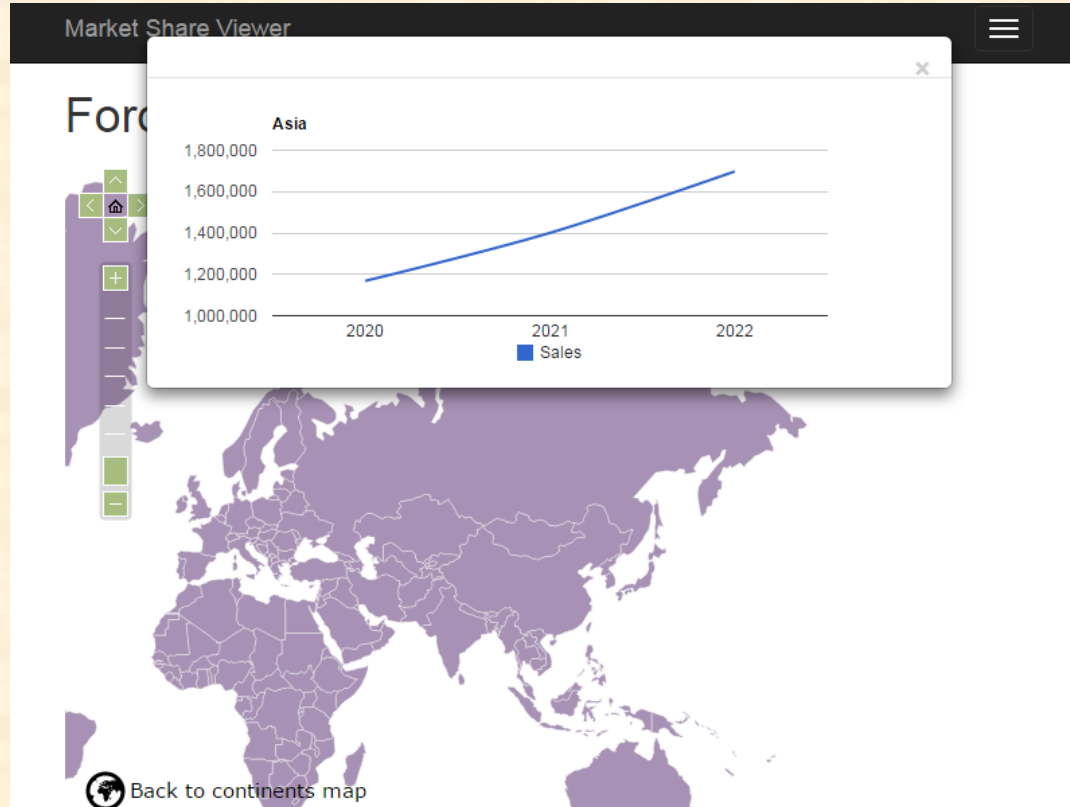
Team Urban Science Alpha Presentation

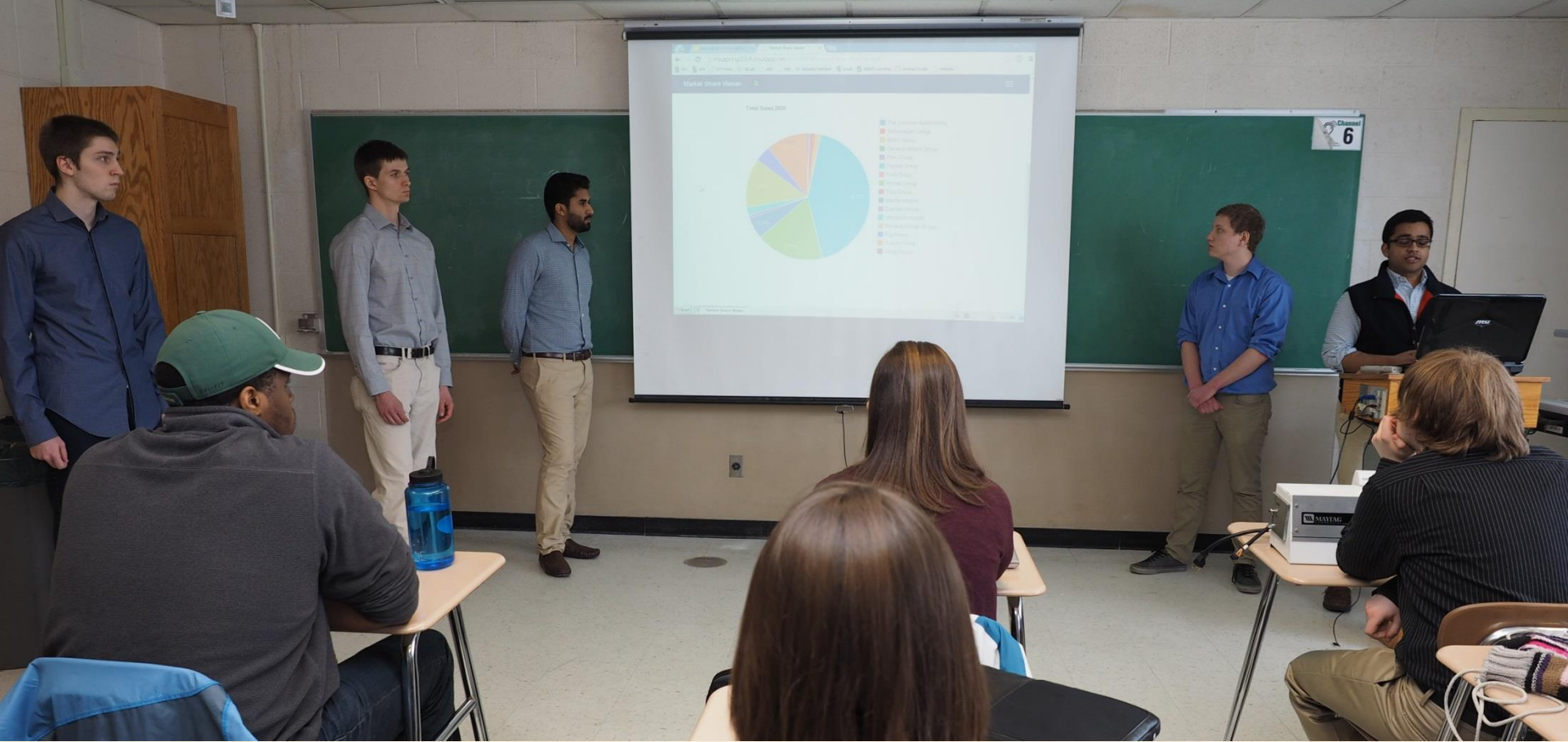
CEO View



Team Urban Science Alpha Presentation

Regional View

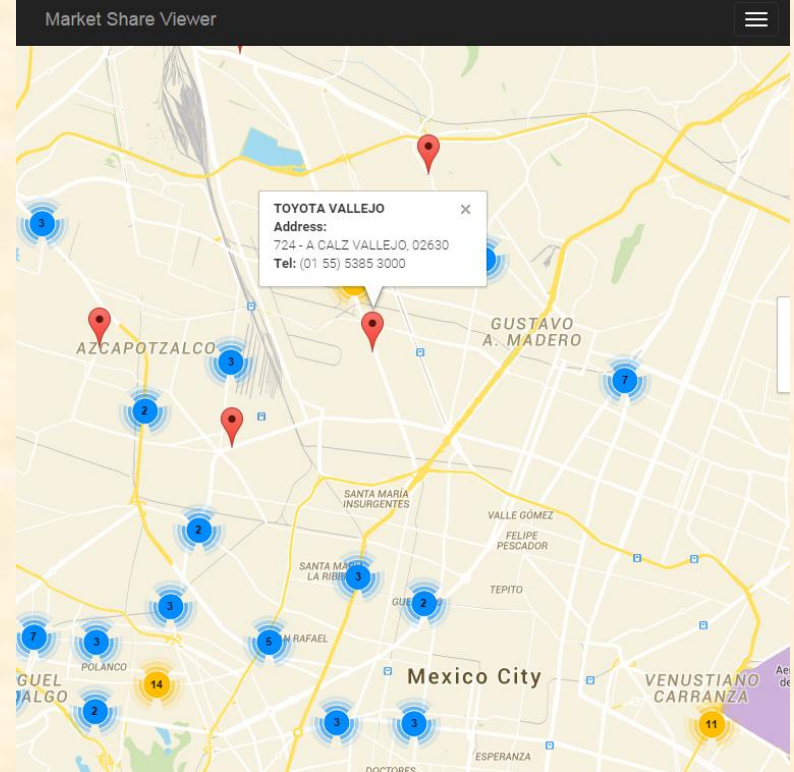
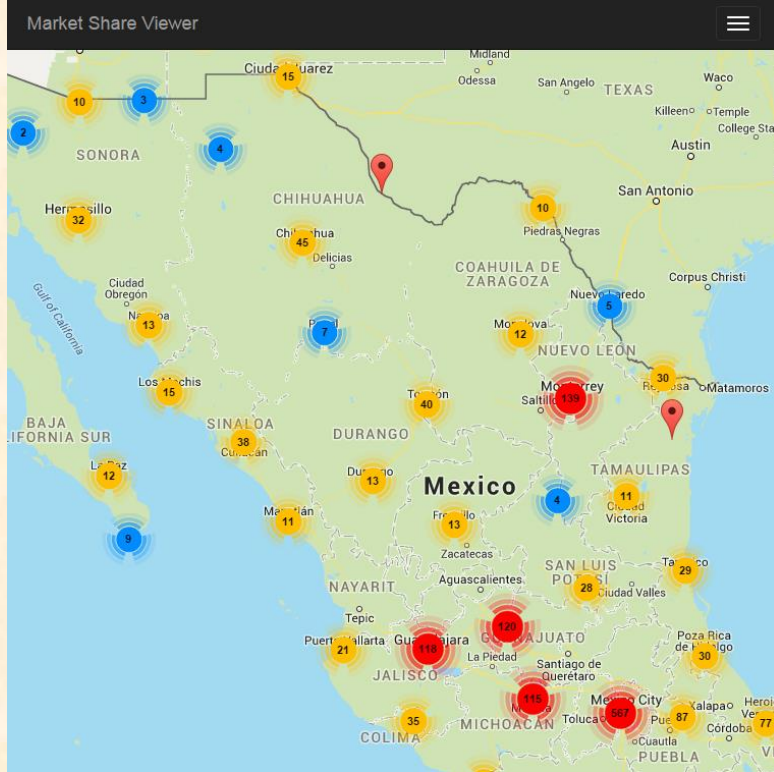


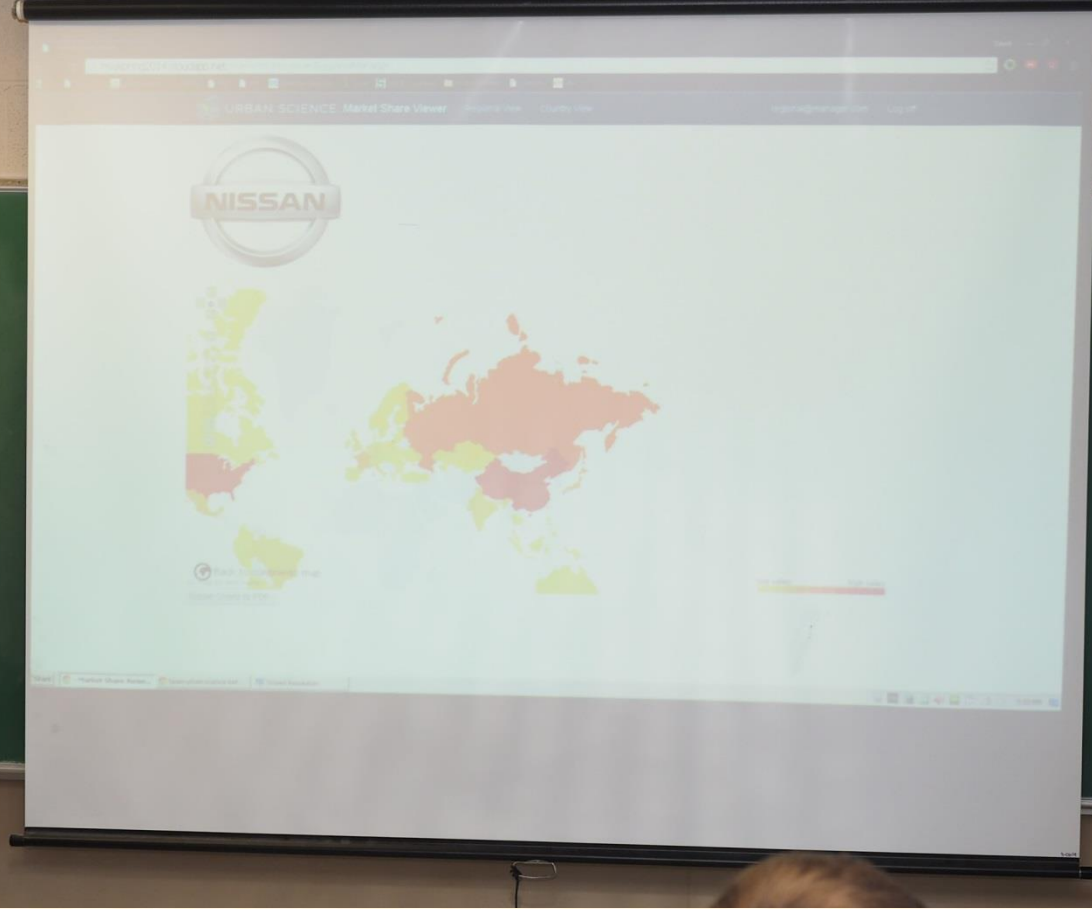
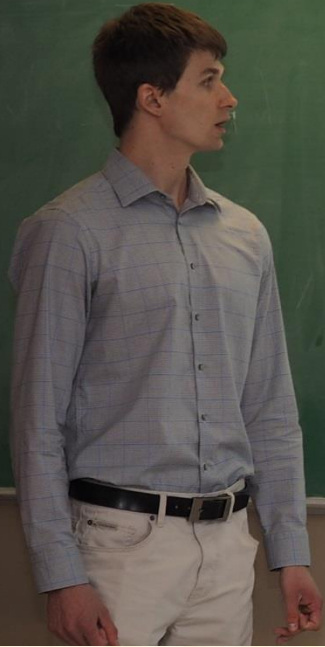


Team Urban Science Alpha Presentation

Team Urban Science Alpha Presentation

Country View





Team Urban Science
Beta Presentation

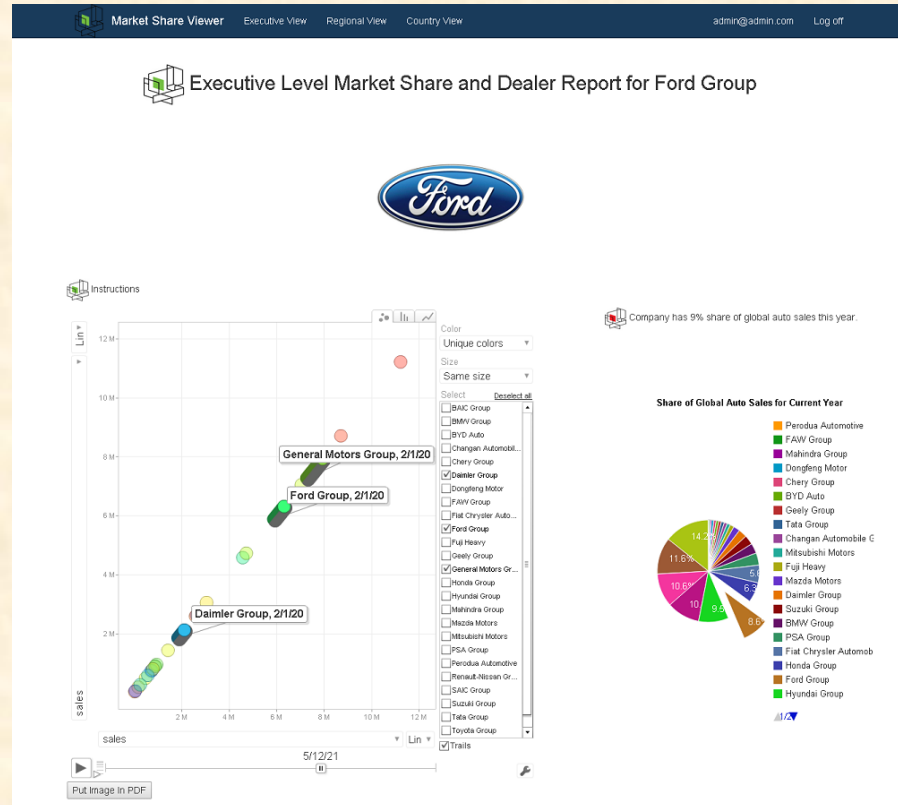
Team Urban Science Beta Presentation

Executive Web View



Team Urban Science Beta Presentation

Executive Web View





Team Urban Science Beta Presentation

Team Urban Science Beta Presentation

Regional View





Team Urban Science
Design Day

MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Team Whirlpool

Department of Computer Science and Engineering
Michigan State University
Spring 2015



*From Students...
...to Professionals*



Whirlpool

CORPORATION



EVERY DAY, CARE™

LAUNDRY

KITCHEN

TOTAL HOME

FILTERS & ACCESSORIES

SERVICE & SUPPORT



Asking the right questions—that's caring.

See Details

Team Whirlpool Project Overview

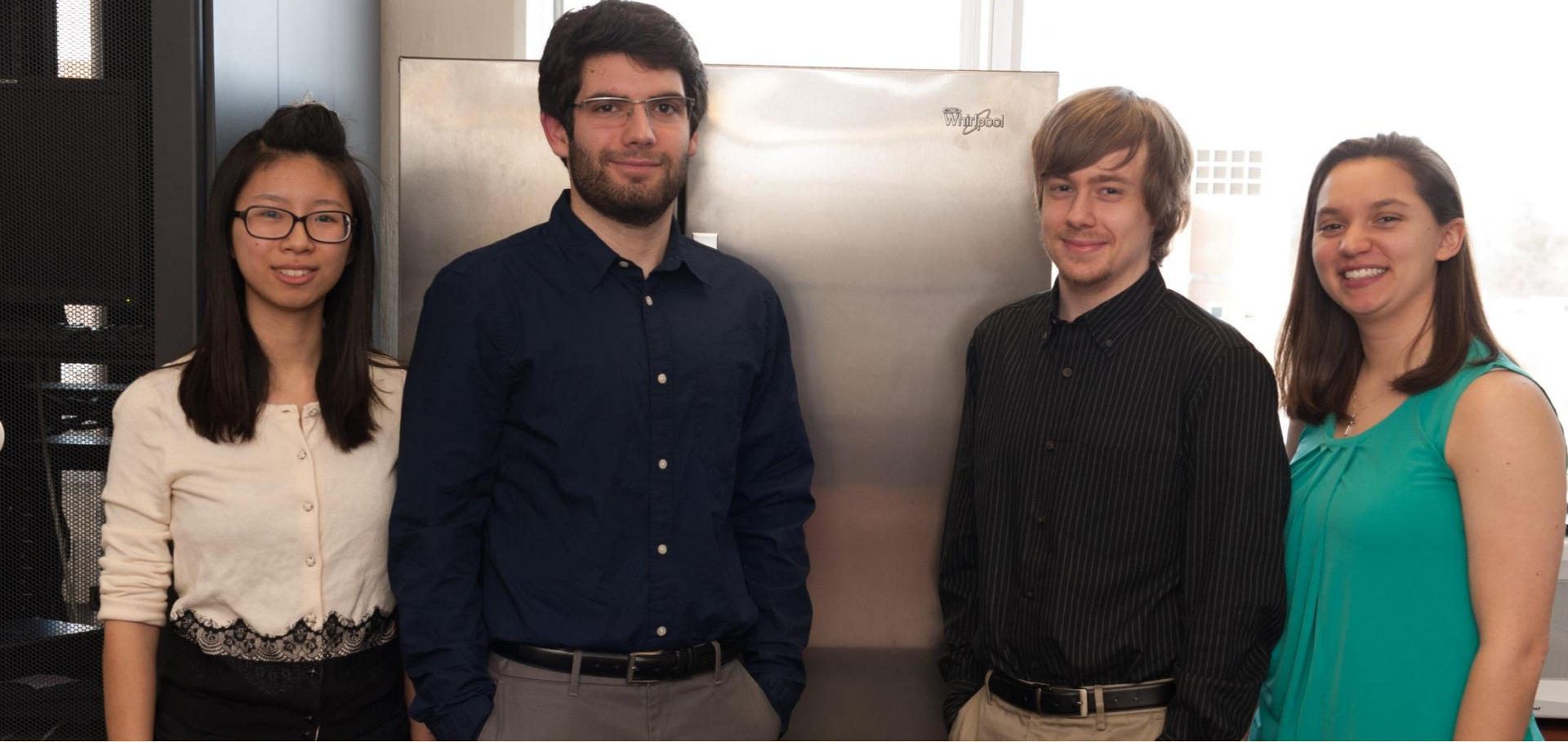
Laundry Room Tablet Payment System

- Functionalities
 - Enable Customers to Pay for Laundry Services
 - In Apartment Complexes and Laundromats
 - Using Low Cost Android or Windows Tablets
- Features
 - Support
 - Select Washer and Dryer Options
 - Notifications via Phone Call, Email or Text Message
 - Feedback to Facility Owner
 - Loyalty Programs
 - Location Hours, Contact Information, Etc.
 - Credit Card Swiping
 - Compliment Existing Whirlpool Phone App
 - Provide Responsive Cross-Platform Design
- Technologies
 - Web Development (CSS, HTML, PHP, JavaScript)
 - JavaScript Object Notation (JSON)
 - Responsive Design (Xamarin, C#)
 - RESTful Web Services
 - Whirlpool Cloud Services
 - Microsoft Visual Studio
 - Microsoft SQL Server



Benton Harbor, Michigan



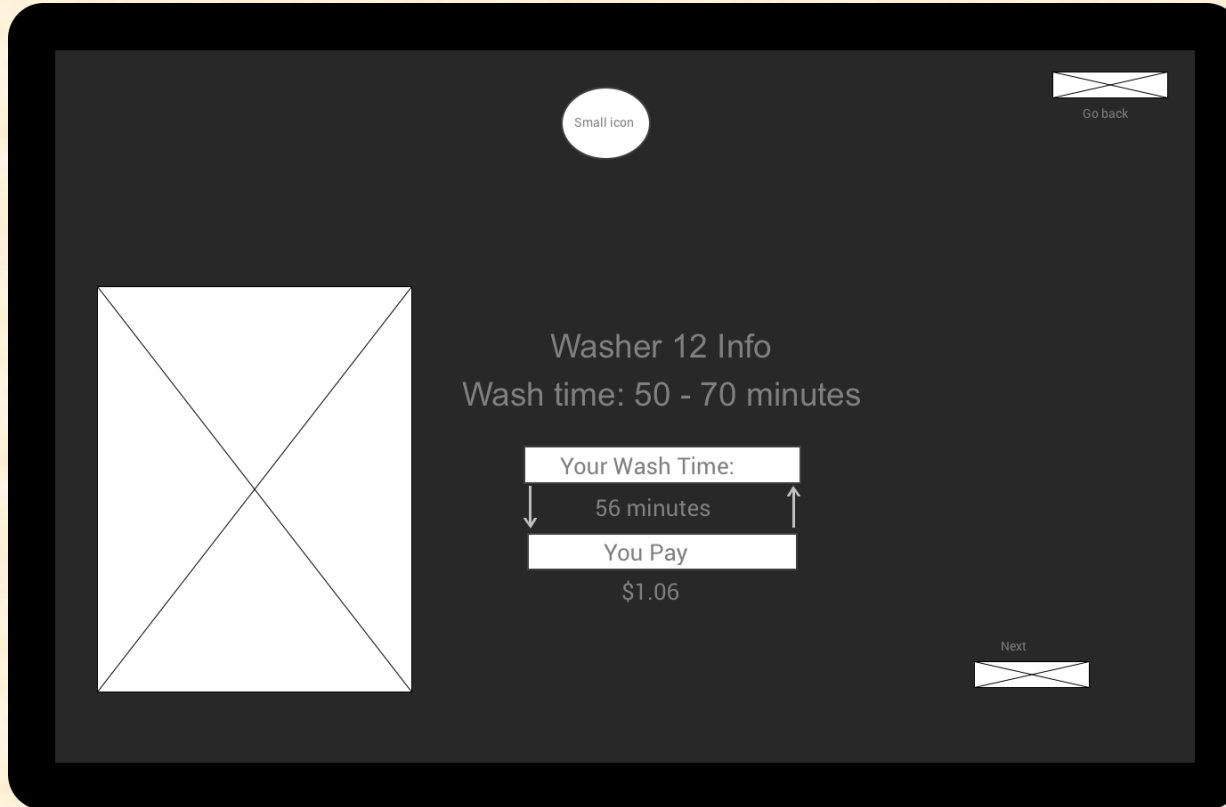


Team Whirlpool

Angie Sun, Alex Kambeitz, Evan Swinehart, Sam Bentzel

Team Whirlpool Project Plan Presentation

Screen Mockup

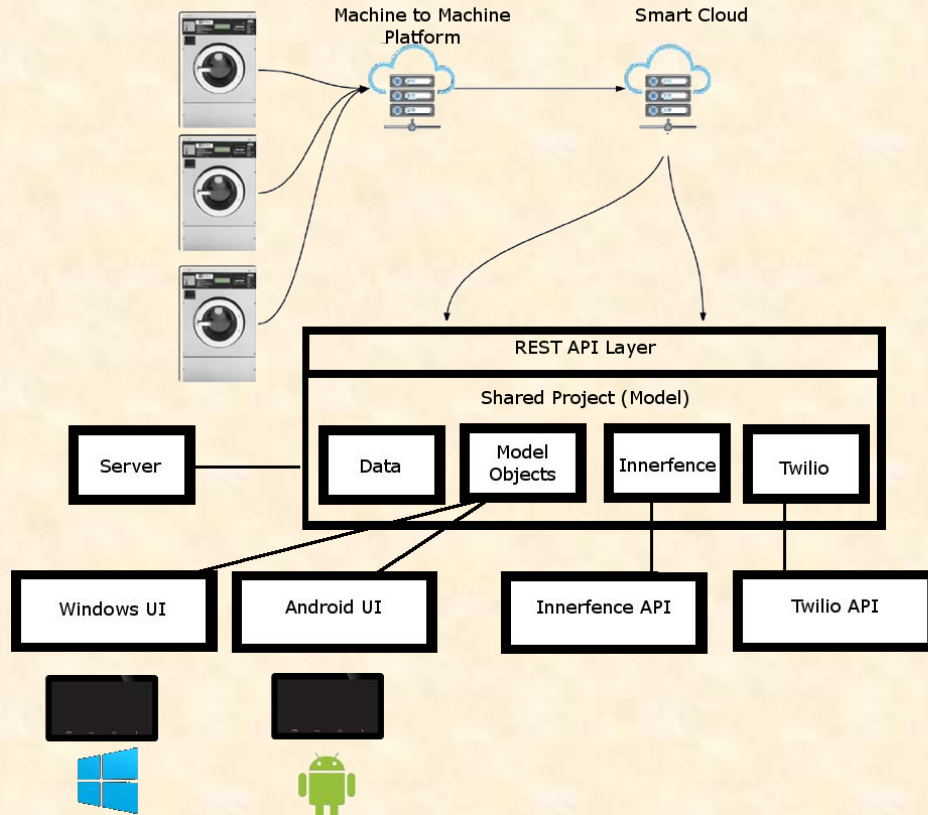




Team Whirlpool Project Plan Presentation

Team Whirlpool Project Plan Presentation

Architecture Diagram

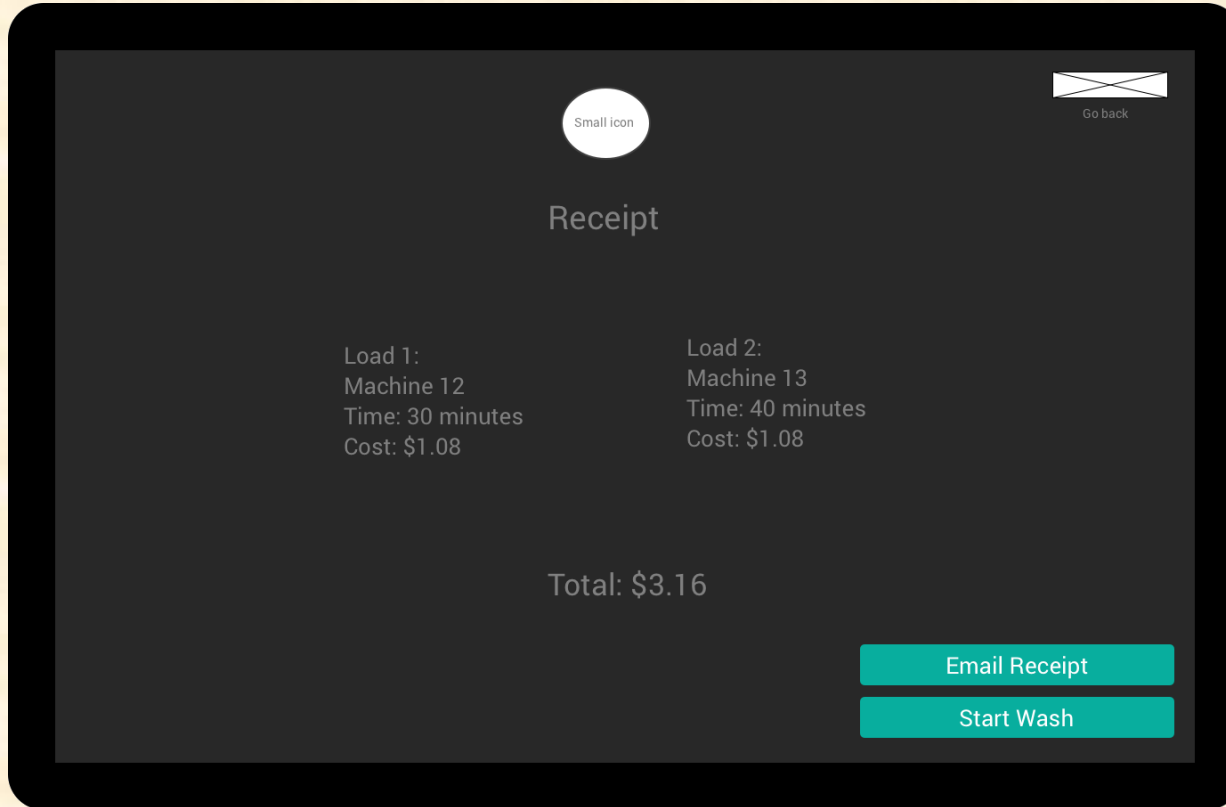




Team Whirlpool Project Plan Presentation

Team Whirlpool Project Plan Presentation

Screen Mockups

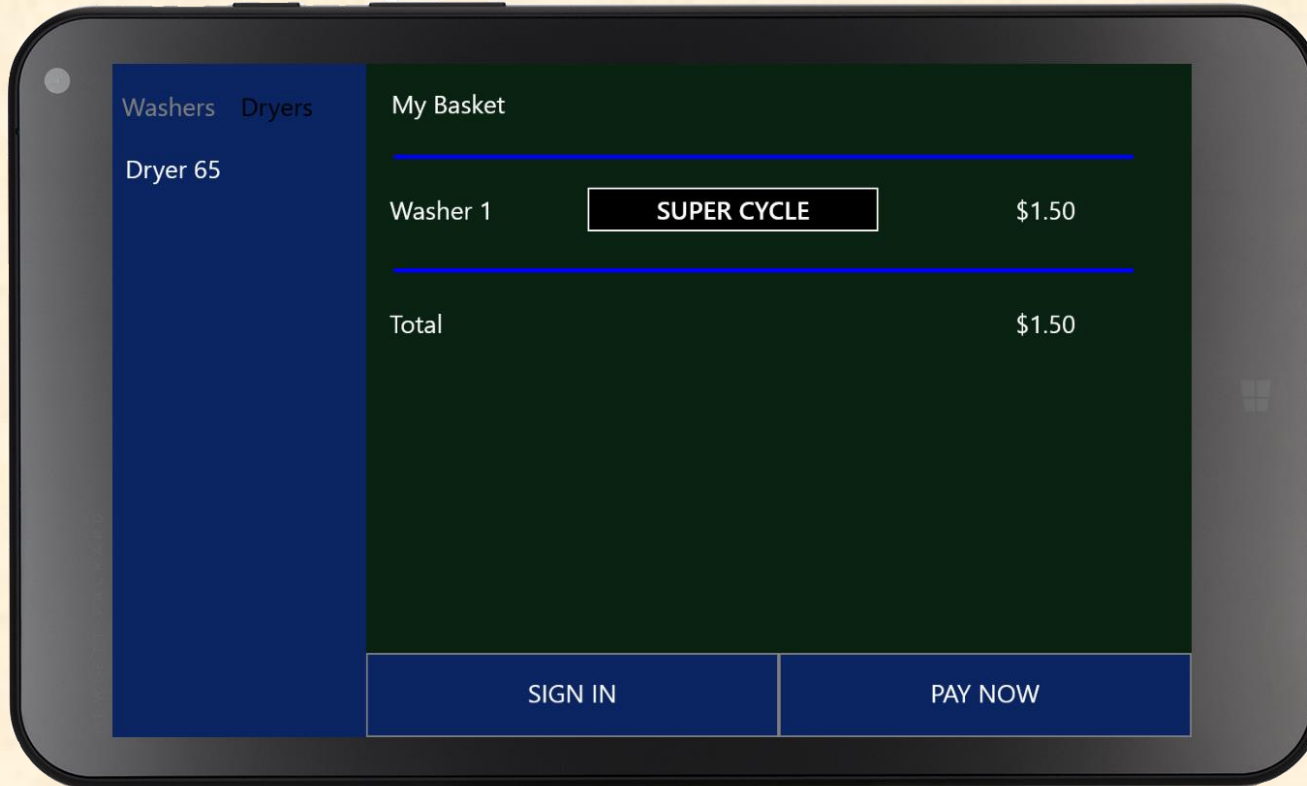




Team Whirlpool Alpha Presentation

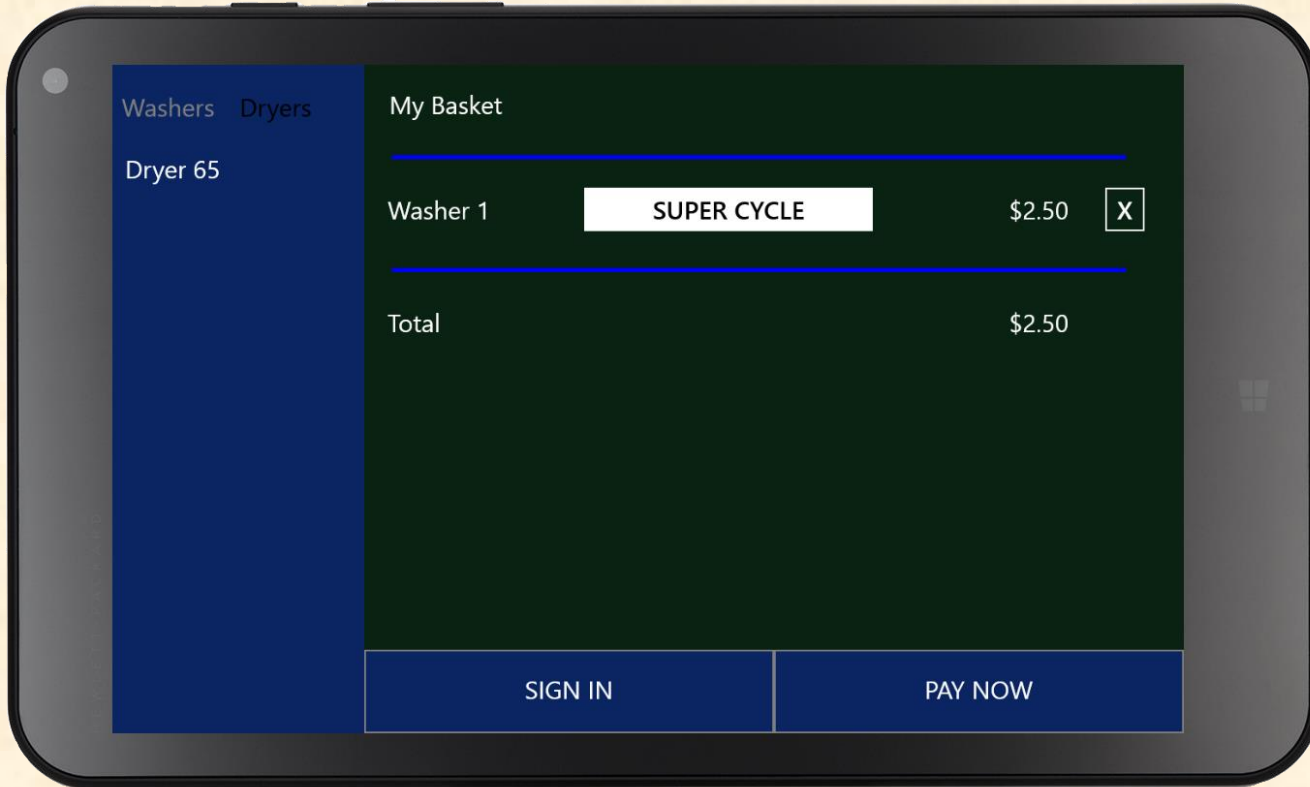
Team Whirlpool Alpha Presentation

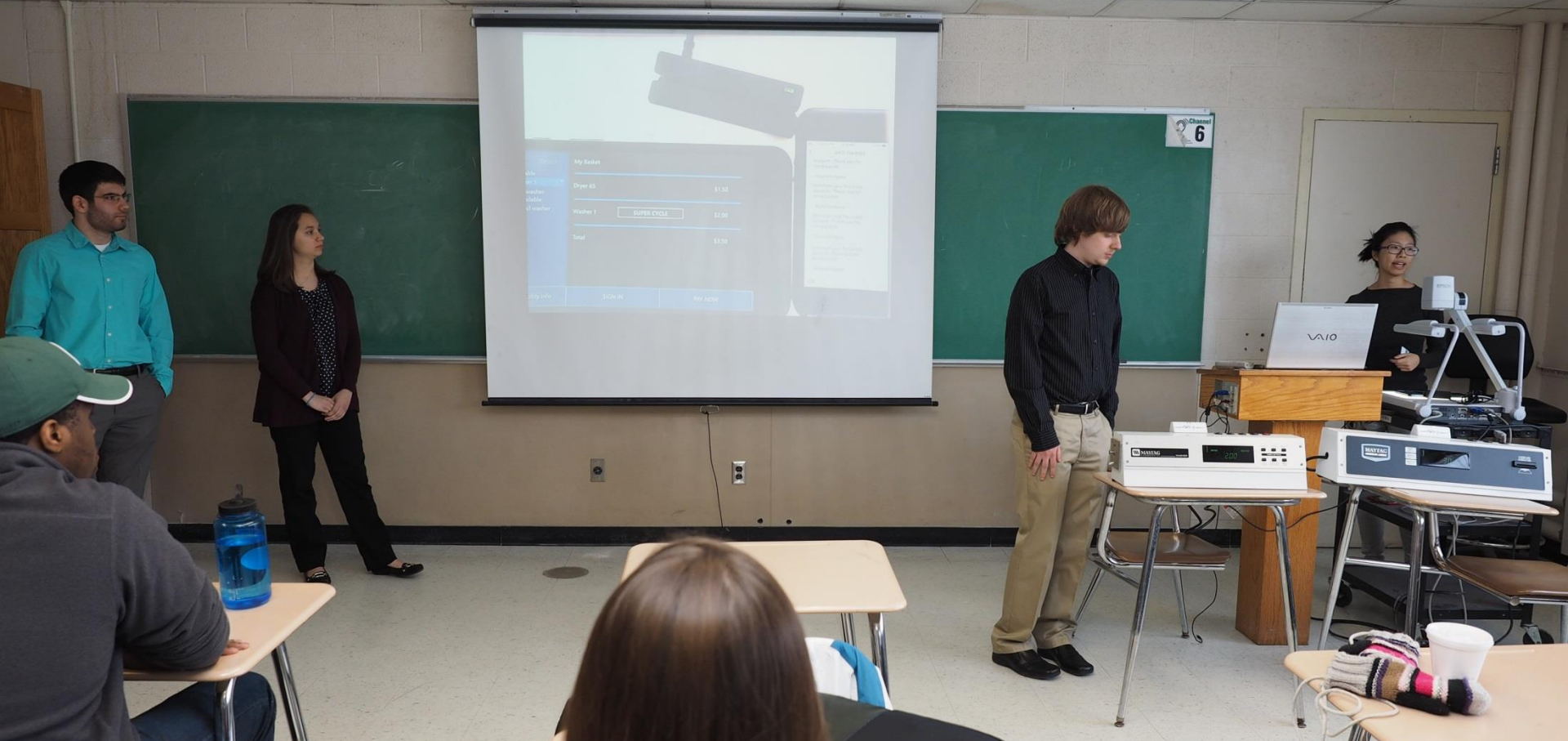
Adding/Removing Machines



Team Whirlpool Alpha Presentation

Super Cycle

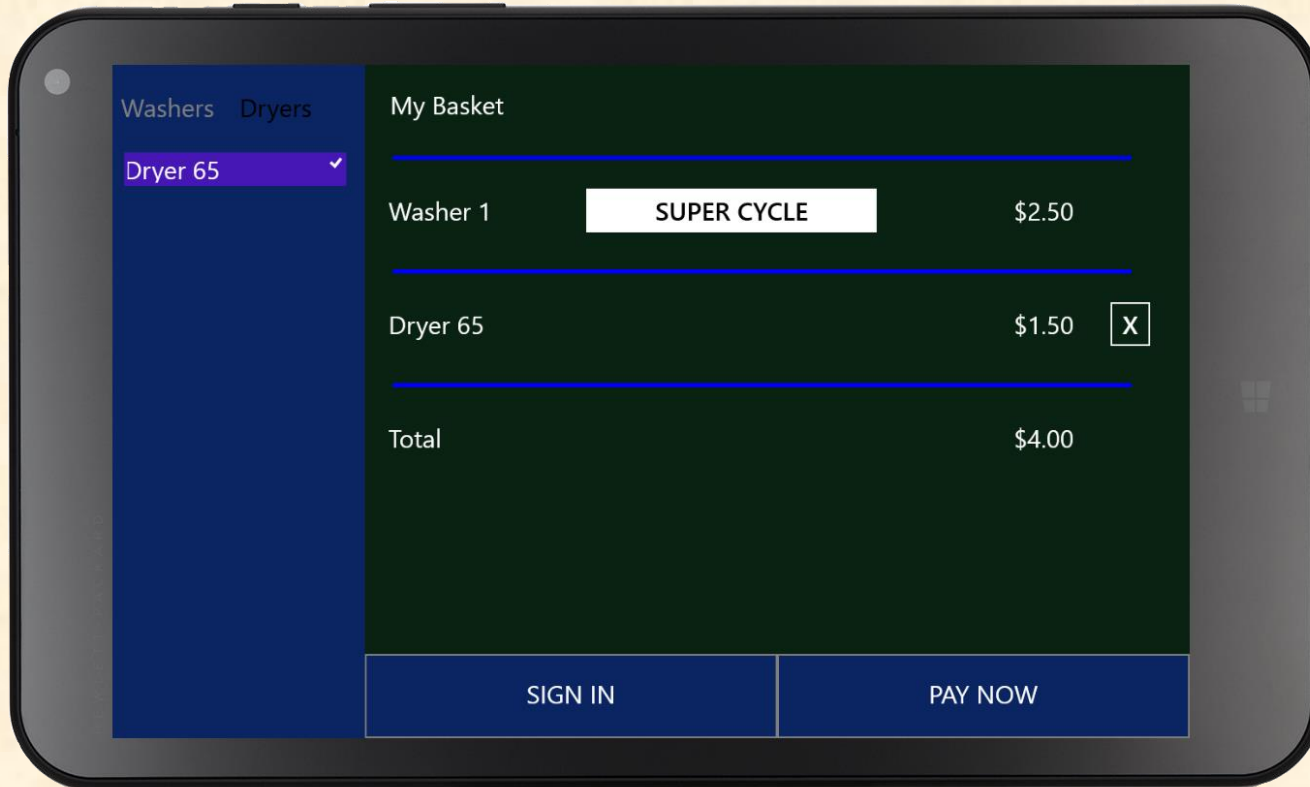




Team Whirlpool Alpha Presentation

Team Whirlpool Alpha Presentation

Dryer





Team Whirlpool
Beta Presentation

Adding/Removing Machines

[illegible]

Team Whirlpool Beta Presentation

Super Cycle and Top Off

WASH	DRY	MY BASKET	
<div>Available</div> <div>Unavailable</div>			
Washer		Dryer	<div>-</div> <div>+</div> 11 min <div>\$0.50</div>
	Washer 6	Washer	<div>SUPER CYCLE</div> <div>\$2.25</div> <div>X</div>
		Total	<div>\$2.75</div>
		<div>SIGN IN</div> <div>PAY NOW</div>	



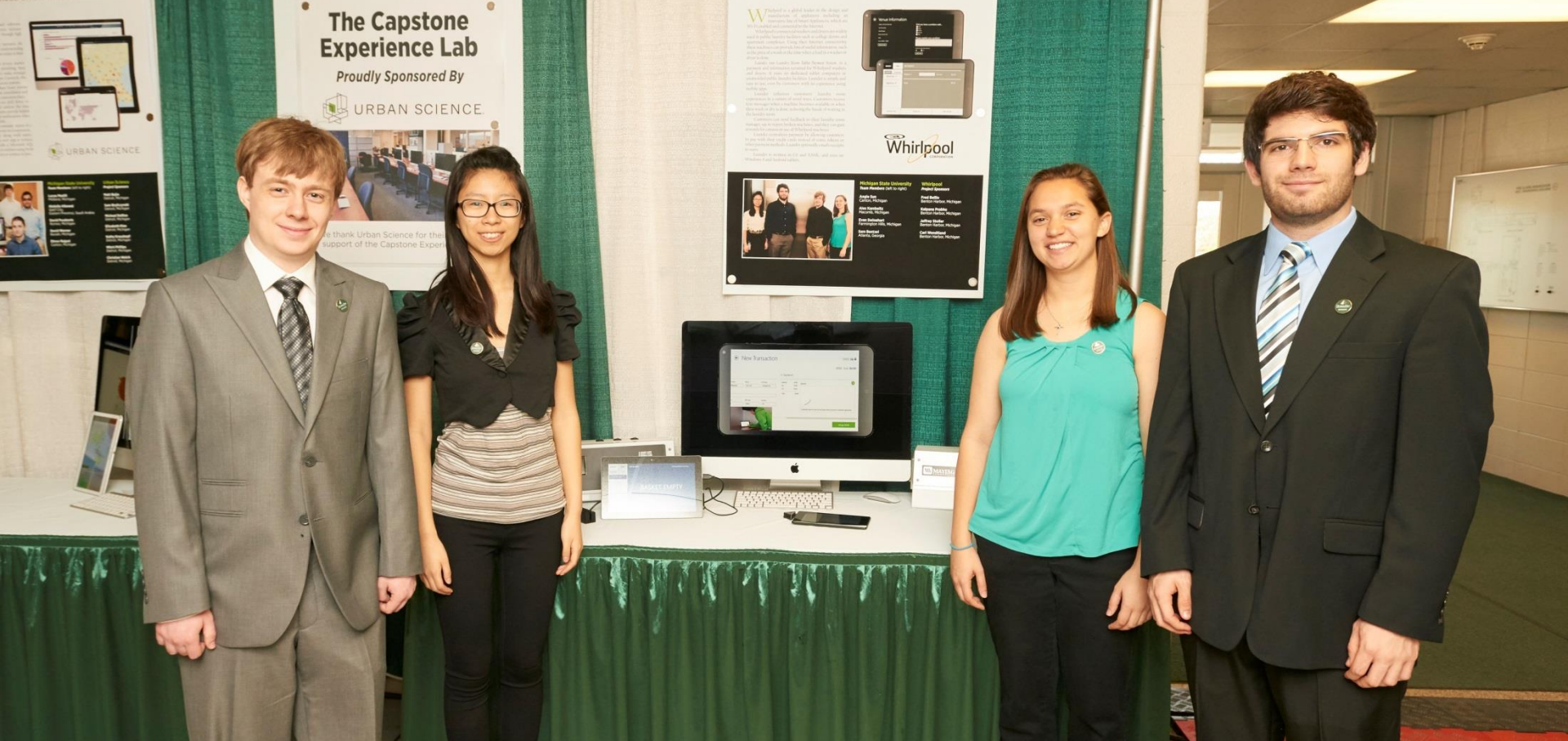
Team Whirlpool Beta Presentation

Team Whirlpool Beta Presentation

After Payment

WASH	DRY	MY BASKET	Have a problem? Let us know.
Available	Unavailable		
Washer			
Washer 6			
BASKET EMPTY			
You have successfully paid for the machines! Do you want a text when your wash is finished?			
<input type="text" value="My phone number"/>			
<input type="button" value="Yes"/> <input type="button" value="No thanks"/>			
SIGN IN		PAY NOW	





Team Whirlpool
Design Day

The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Spring 2015



*From Students...
...to Professionals*



Capstone Lab
View of Spartan Stadium



Capstone Lab
View of Spartan Stadium sans Smokestack



Capstone Lab
Winter View of Spartan Stadium

MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Design Day Award Winners

May 1, 2015



*From Students...
...to Professionals*



All-Hands
Design Day, May 1, 2015



Auto-Owners Exhibition Award

Team Whirlpool, Spring 2015

Launder: Laundry Room Tablet Payment System

Sam Bentzel, Evan Swinehart, Angie Sun, Alex Kambeitz

Scott Lake of Auto-Owners Insurance



General Motors Praxis Award

Team Ford, Spring 2015

Electric Vehicle Charging Station App

Ryan Switzer, Justin Grothe, Kevin Karabon, Brian Jurgess

Presented by Mike Adelson and Fred Killeen of General Motors



TechSmith Screencast Award

Team GM, Spring 2015

Employee Companion Mobile Application

Jacob Ray, Yutaka Iwasaki, Ryan Boyce, Nate Seifert, Derrick Dunville

Presented by Dewey Hou of TechSmith



Urban Science Sigma Award

Team Amazon, Spring 2015

SIFT: Seller-Forums Information Filtering Tool

Ben Taylor, Max Goovaerts, Carl Johnson, Johnny Zheng, Luke Pritchett

Presented by Kathy Krauskopf and Matt Bejin of Urban Science

MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Design Day Award Winners

December 5, 2014



*From Students...
...to Professionals*



All-Hands
Design Day, December 5, 2014

MICHIGAN STATE
UNIVERSITY

COLLEGE OF ENGINEERING

ENGINEERING

innovation

excellence

leadership

vision

globalization

teamwork

COLLEGE OF
ENGINEERING

MICHIGAN STATE
UNIVERSITY

Auto-Owners Exhibition Award

Team Spectrum Health, Fall 2014

Employee Discount Mobile App

Ruchira Ramani, Josh Pélcher, Emily Van Norman, Marco Botros, Aries Xue

Scott Lake of Auto-Owners Insurance



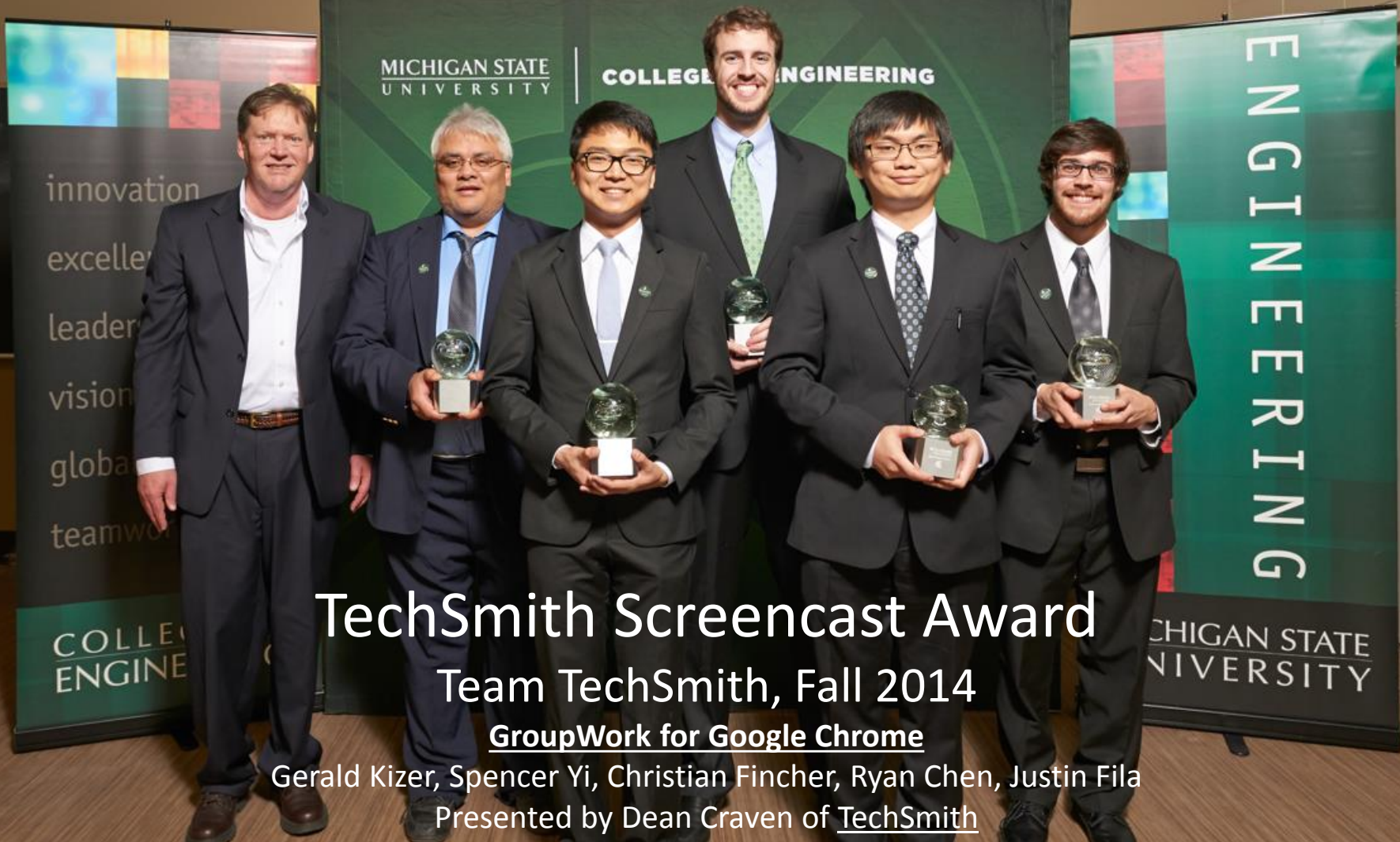
General Motors Praxis Award

Team Auto-Owners, Fall 2014

Navigation Assistant and Accident History App

Austin Huynh, Isaac Vogler, Zach Ray, Megan Frankel, Tim Sloncz

Presented by Christian Stier and Mike Adelson of General Motors



TechSmith Screencast Award

Team TechSmith, Fall 2014

GroupWork for Google Chrome

Gerald Kizer, Spencer Yi, Christian Fincher, Ryan Chen, Justin Fila

Presented by Dean Craven of TechSmith



Urban Science Sigma Award

Team Meijer, Fall 2014

Mobile Location-Based Product Promotion

Dan Leclerc, Jason Bull, Kevin Pauly, Xavier Durand-Hollis

Presented by Kathy Krauskopf, Matt Bejin and Mike DeRiso of Urban Science

The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Spring 2015



*From Students...
...to Professionals*

amazon

The Amazon logo, featuring the word "amazon" in a bold, dark blue, sans-serif font. Below the text is a thick, orange curved arrow that starts under the 'a' and points towards the 'n', resembling a smile.



Auto-Owners Insurance

Life Home Car Business

The "No Problem" People®







meijer[®]



F E D E R A L C R E D I T U N I O N

Building Dreams *Together*

Quicken® Loans®

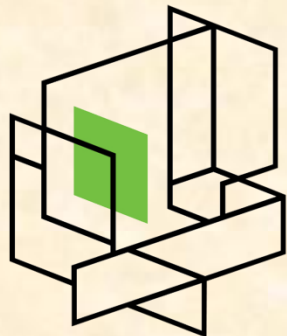
Engineered to **AmazeSM**

SPECTRUM HEALTH





TechSmith®



URBAN SCIENCE™



Whirlpool
CORPORATION