

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Fall 2014



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, 2400 Engineering Building
- Presentations By
 - Professor
 - Teams
 - Status Reports
 - Formal Presentations
 - ➤ Project Plan
 - > Alpha
 - > Beta
 - Project Videos
 - Guest Speakers



All-Hands Meetings

08/27: Capstone Overview

09/01: (Labor Day, No Meeting)

09/03: Project Plan

09/08: Risks and Prototypes

09/10: Team <u>Status Report Presentations</u>

09/15: Team Project Plan Presentations

09/17: Team Project Plan Presentations

09/22: Team Project Plan Presentations

09/24: Team Project Plan Presentations

09/29: Resume Writing and Interviewing

10/01: Career Gallery

10/06: Schedule and Teamwork

10/08: Creating and Giving Presentations

10/13: Team Alpha Presentations

10/15: Team Alpha Presentations

10/20: Team Alpha Presentations

10/22: Team Alpha Presentations

10/27: Design Day and the Project Videos

10/29: Camtasia Demo

11/03: Team Beta Presentations

11/05: Team Beta Presentations

11/10: Team Beta Presentations

11/12: Team Beta Presentations

11/17: Team Status Reports

11/19: Team Status Reports

11/24: Team Status Reports

11/26: Team Status Reports

12/01: Project Videos

12/03: Project Videos and All Deliverables

12/04: Design Day Setup

12/05: Design Day

12/09: Project Videos



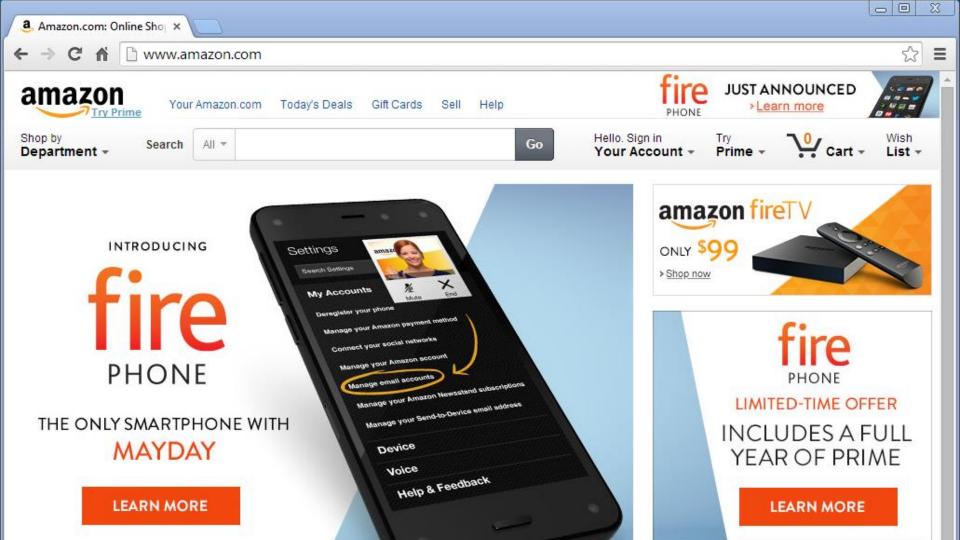




Team Amazon

Department of Computer Science and Engineering
Michigan State University
Fall 2014

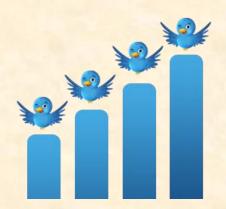
amazon



Team Amazon Project Overview

Twitter Trending Effects on Amazon Sellers

- Functionalities
 - Alert Amazon Sellers Re
 - Brands Trending
 - Consumers' Sentiments
 - Based on Twitter Tweets
- Features
 - Consume Real-Time Twitter Stream
 - Provide Sentiment Analysis Model
 - Utilize Amazon Web Services
 - Endpoint Twitter Consumer Service
 - Workers to Analyze Tweets via Kinesis
 - Store Tweet Information via Redshift
 - Provide Graphical Web and Mobile Dashboards
- Technologies
 - Twitter APIs
 - Amazon Web Services (AWS)
 - Kenesis Client Library
 - Redshift Cloud Data Storage
 - Web and Mobile User Interfaces







The Capstone Experience

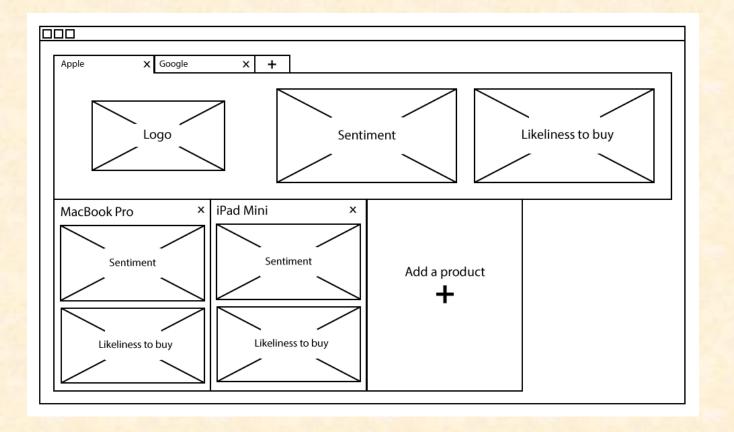


Team Amazon

Paul Stanos, Caitlin McDonald, Michael Chouinard, Erin Hoffman, Justin Vrooman

Team Amazon Project Plan Presentation

Screen Mockup

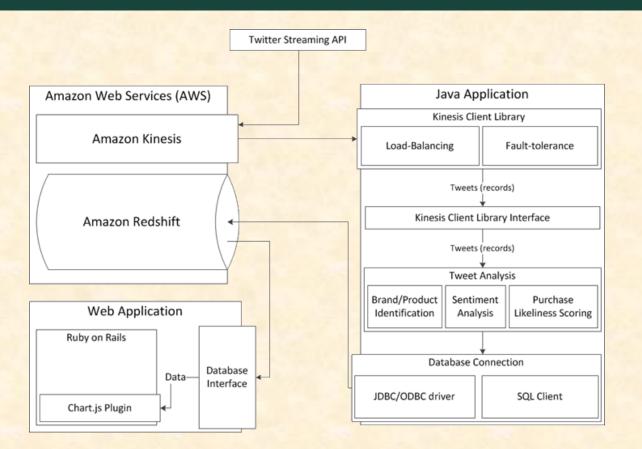






Team Amazon Project Plan Presentation

Team Amazon Project Plan Presentation Architecture Diagram





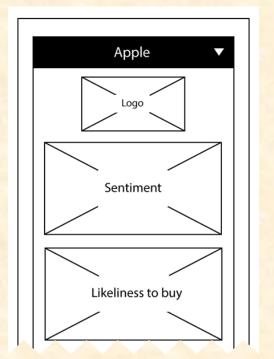
The Capstone Experience

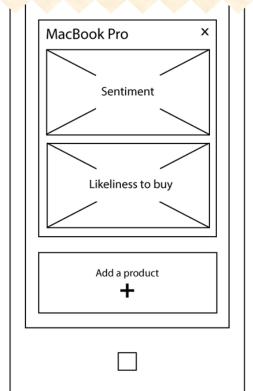


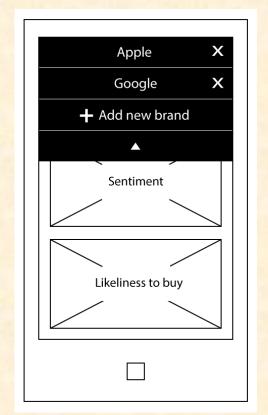
Team Amazon Project Plan Presentation

Team Amazon Project Plan Presentation

Screen Mockups







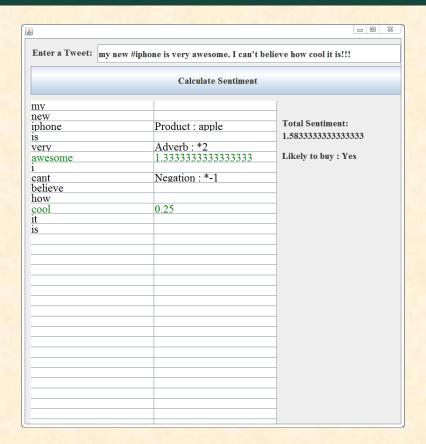




Team Amazon Alpha Presentation

Team Amazon Alpha Presentation

Sentiment Scoring





Team Amazon Alpha Presentation

Twitter Tweets Statistics





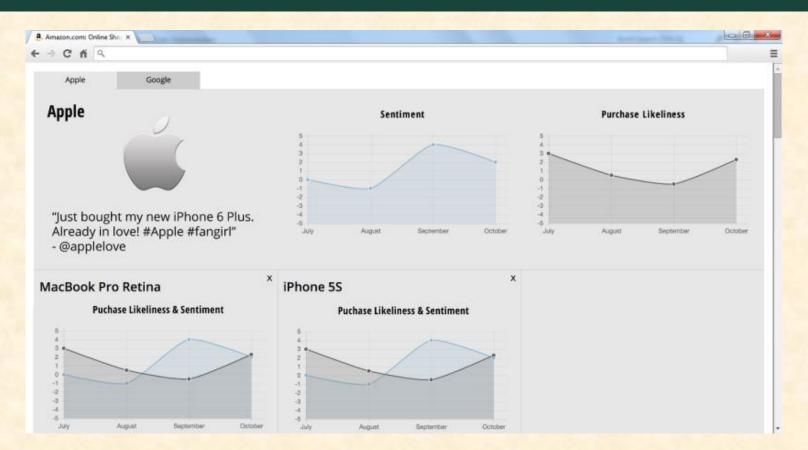
The Capstone Experience



Team Amazon Alpha Presentation

Team Amazon Alpha Presentation

Desktop Front-End



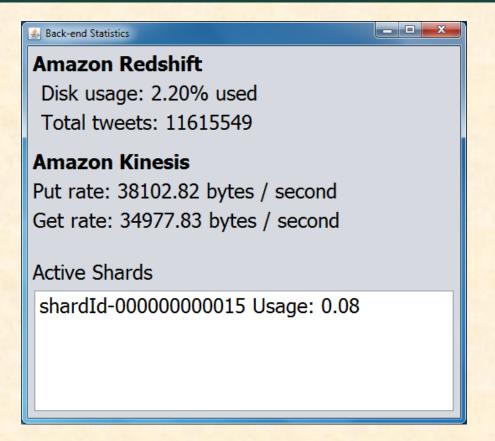




Team Amazon Beta Presentation

Team Amazon Beta Presentation

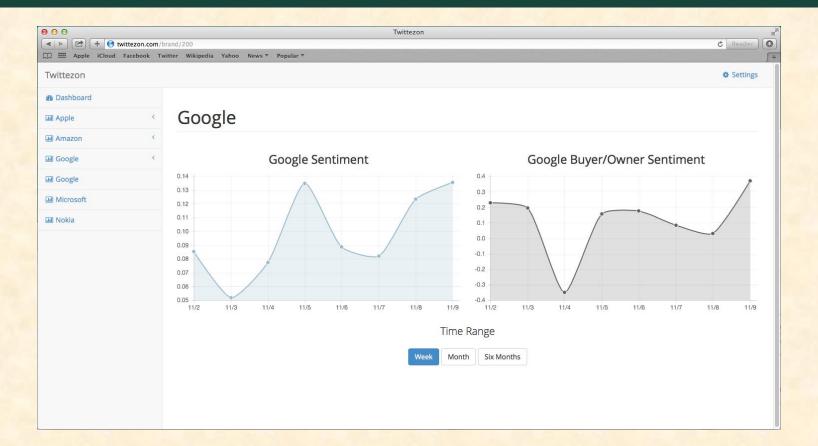
Back-End Statistics





Team Amazon Beta Presentation

Web App





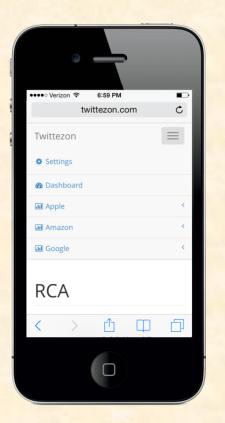


Team Amazon Beta Presentation

Team Amazon Beta Presentation

Mobile App









Team Amazon Design Day





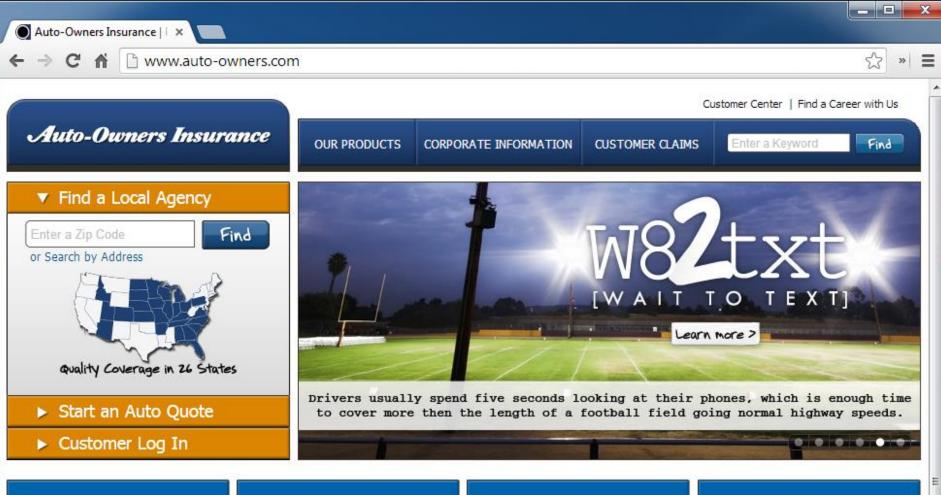
Team Auto-Owners

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Fall 2014



Auto-Owners Insurance Life Home Car Business

The "No Problem" People®



Life Insurance

Home Insurance Property and liability Car Insurance
Security while on the road

Business Insurance
Guarding your investment

Team Auto-Owners Project Overview

Navigation Assistant and Accident History App

- Functionalities
 - Provide Safest Navigation Routing for Drivers
 - Analyze Driving Risk Patterns to Calculate Insurance Rates
 - Based on Historical Accident Data
- Features
 - Utilize Delays Based on Prior Driving Routes and Times
 - Send Text or Email Notifications for Alternate Routes
 - Synchronize with Owner's Car via Bluetooth
 - Provide Web App for Auto-Owners Administrators
- Technologies
 - Apple (iOS) iPhone and iPad
 - Objective-C
 - Google Android
 - Java





Lansing, Michigan



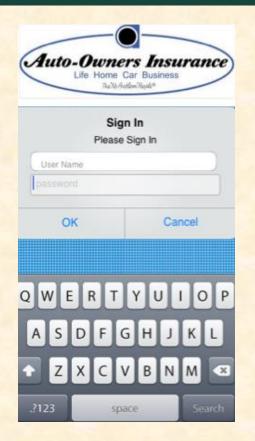


Team Auto-Owners

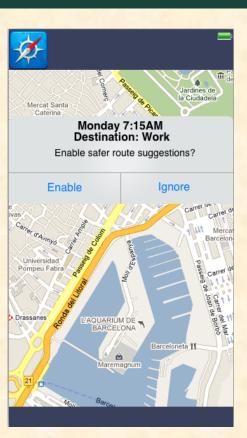
Isaac Vogler, Zach Ray, Tim Sloncz, Megan Frankel, Austin Huynh

Team Auto-Owners Project Plan Presentation

Screen Mockups





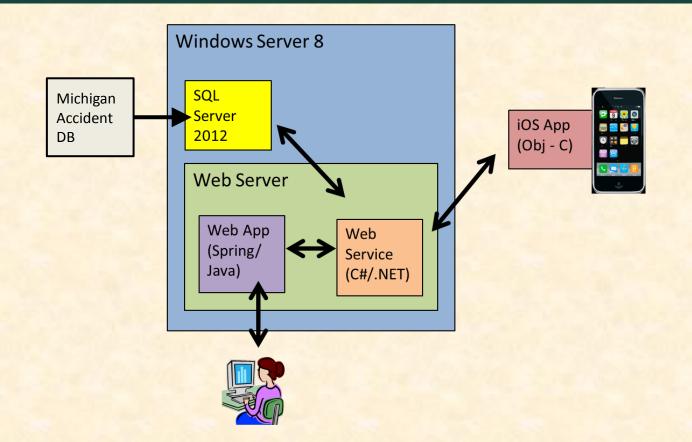






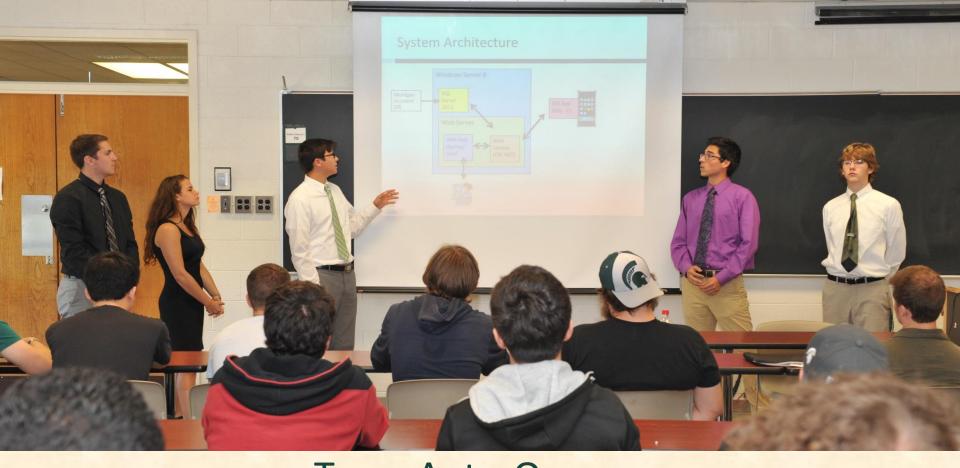
Team Auto-Owners Project Plan Presentation

Team Auto-Owners Project Plan Presentation Architecture Diagram





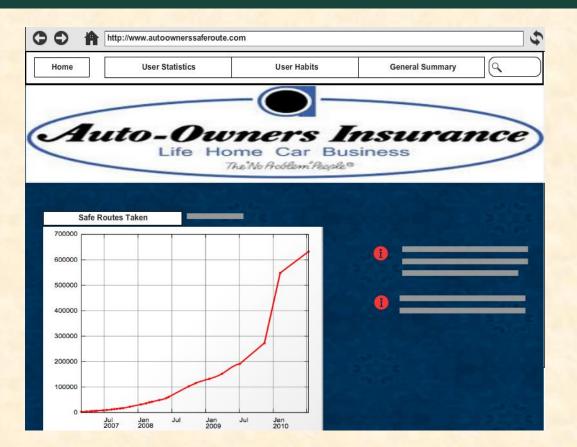
The Capstone Experience



Team Auto-Owners Project Plan Presentation

Team Auto-Owners Project Plan Presentation

Screen Mockup



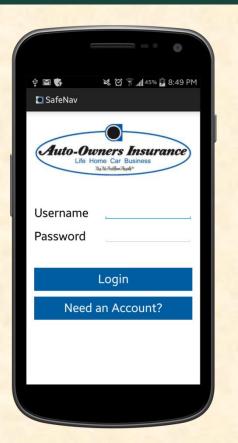


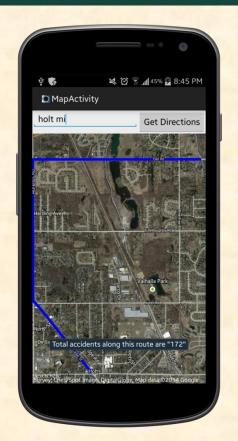


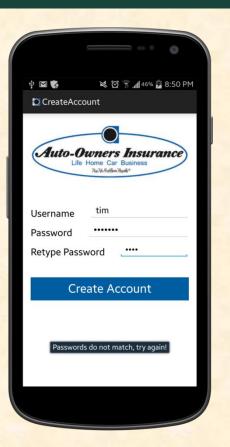
Team Auto-Owners Alpha Presentation

Team Auto-Owners Alpha Presentation

Android App









Team Auto-Owners Alpha Presentation

iPhone App







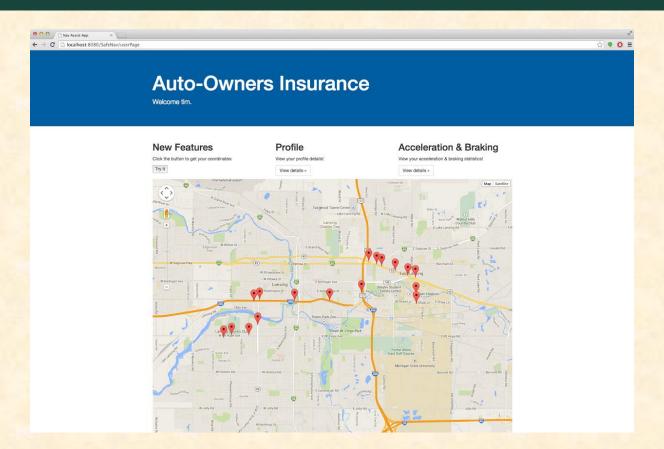




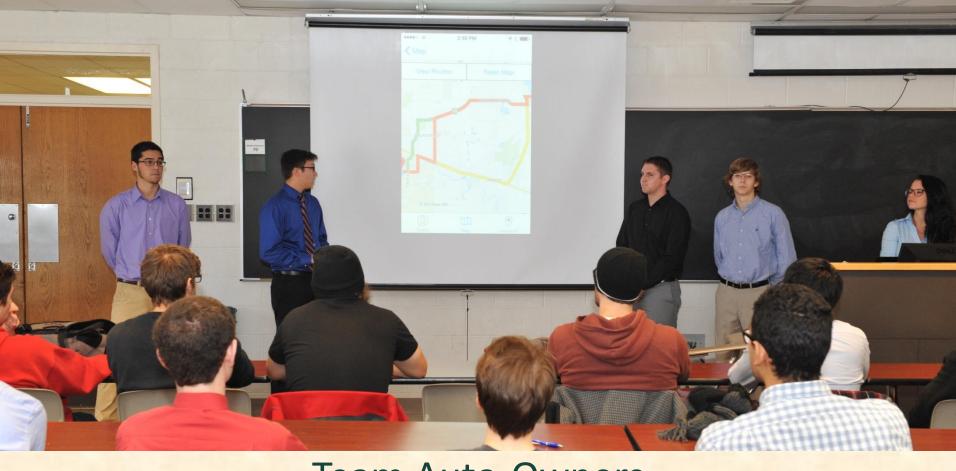
Team Auto-Owners Alpha Presentation

Team Auto-Owners Alpha Presentation

Web App



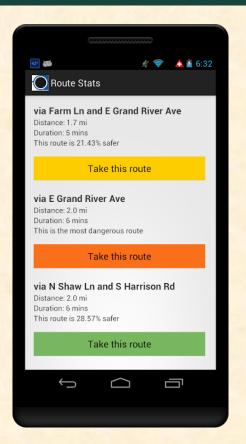


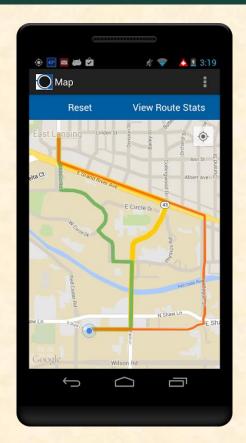


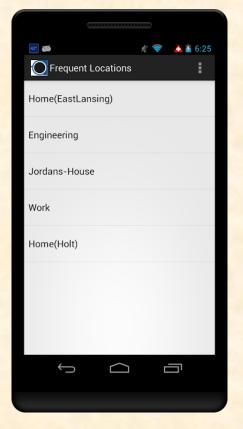
Team Auto-Owners Beta Presentation

Team Auto-Owners Beta Presentation

Android App





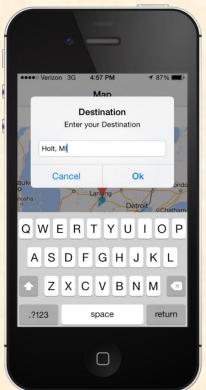




Team Auto-Owners Beta Presentation

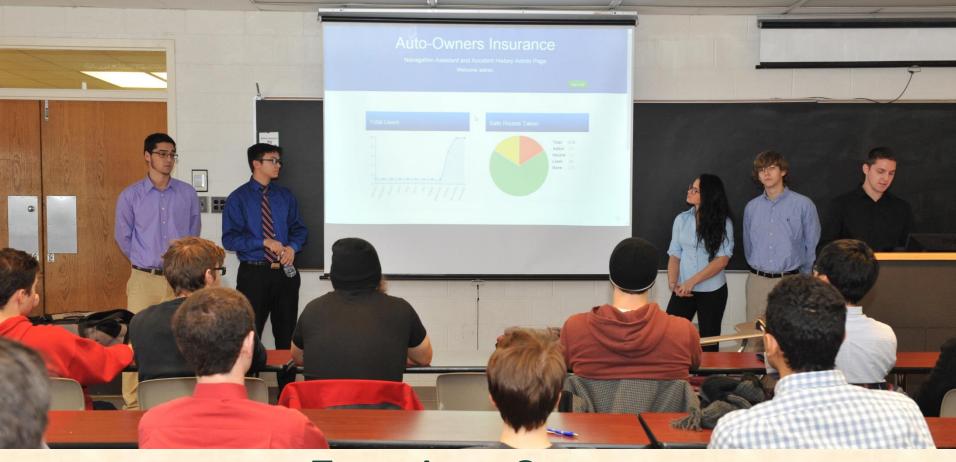
iPhone App







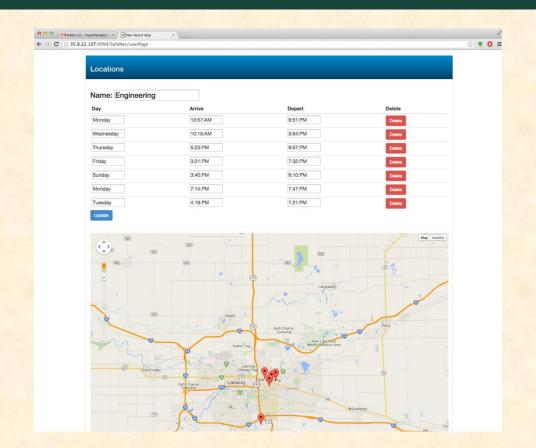




Team Auto-Owners Beta Presentation

Team Auto-Owners Beta Presentation

Web App







Team Auto-Owners Design Day





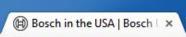
Team Bosch

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Michigan State University
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BOSCH

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Bosch World Experience 2014 Around the world in 16 days

Six destinations, three continents, one unforgettable adventure. From the famous Tower Bridge in London to automated driving in San Francisco - Bosch technology is in places you may never have thought! Witness the diversity of Bosch's innovative and beneficial solutions around the world with this exclusive chance to look behind the scenes!

Join the experience







Mobility

At Home

Industry and Trade

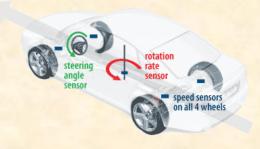
Healthcare

> Bosch Car Service

Team Bosch Project Overview

Mobile App for XCP Measurement and Calibration

- Functionalities
 - Enable Measurement and Calibration
 - Of Automobile Electronic Stability Control ECU
 - Via Android App
 - Using Vehicle Application Mobile Platform (VAMP)
- Features
 - Support Android Tablets
 - Communicate Wirelessly Via Bluetooth
 - Interface with BlueCAN Dongle
- Technologies
 - Google Android App Development
 - Java
 - Controller Area Network (CAN)
 - Universal Measurement and Calibration Protocol (XCP)
 - Vehicle Application Mobile Platform (VAMP)
 - Bluetooth





Farmington Hills, Michigan



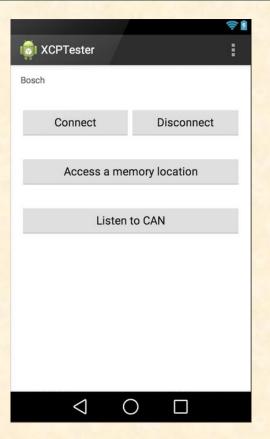


Team Bosch

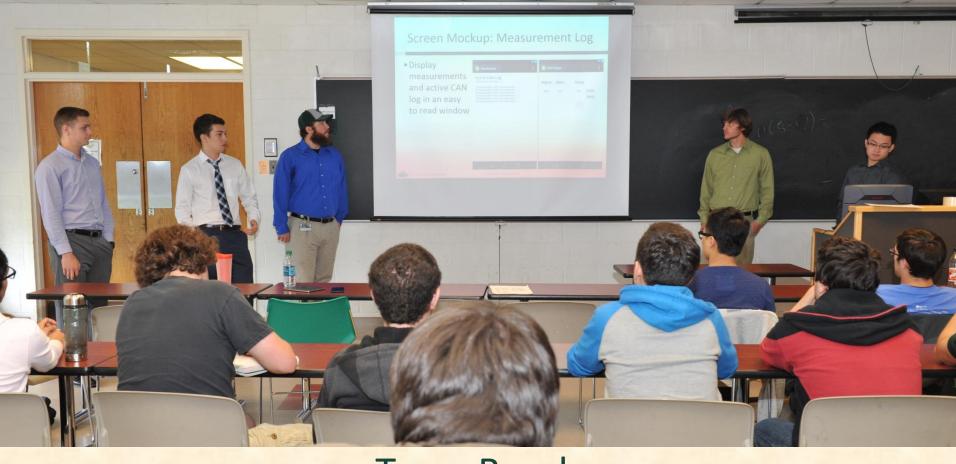
Neil Wu, Phil Plachta, John Adams, Jake Lange, Andrew Tomaka

Team Bosch Project Plan Presentation

Screen Mockup

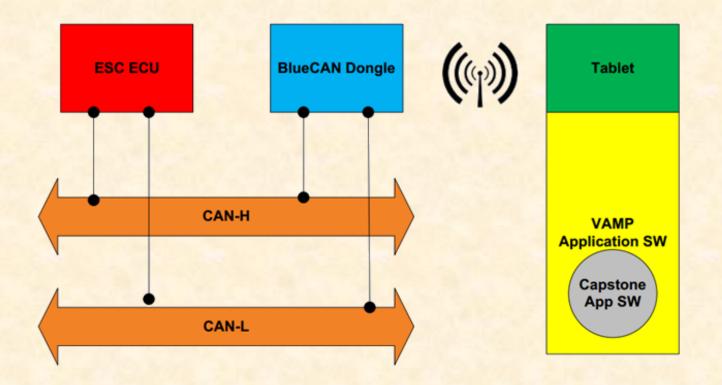






Team Bosch Project Plan Presentation

Team Bosch Project Plan Presentation Architecture Diagram



The Capstone Experience



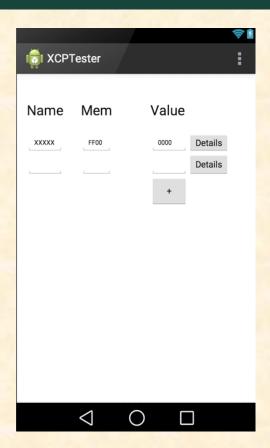


Team Bosch Project Plan Presentation

Team Bosch Project Plan Presentation

Screen Mockups

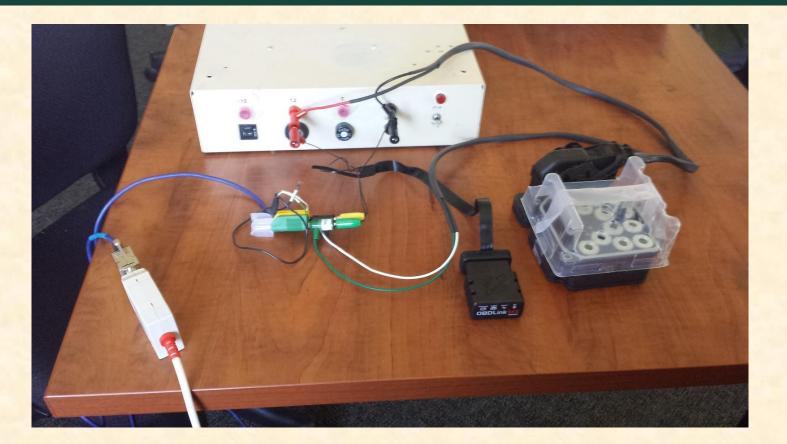
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CanActivity
Active CAN Log Listening to CAN bus
[timestamp]Sent XCP command with
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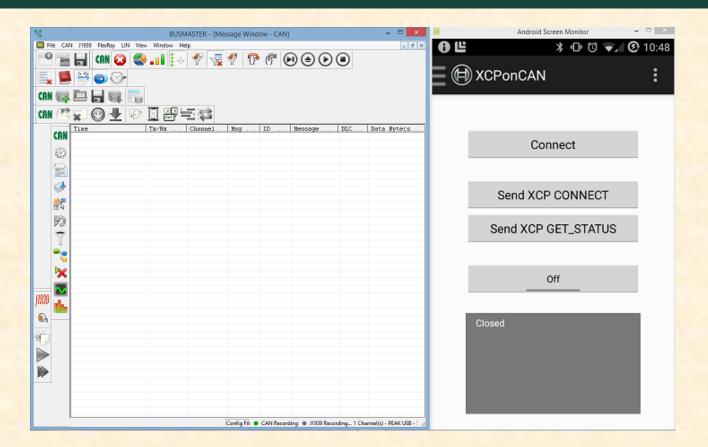
Hardware





The Capstone Experience

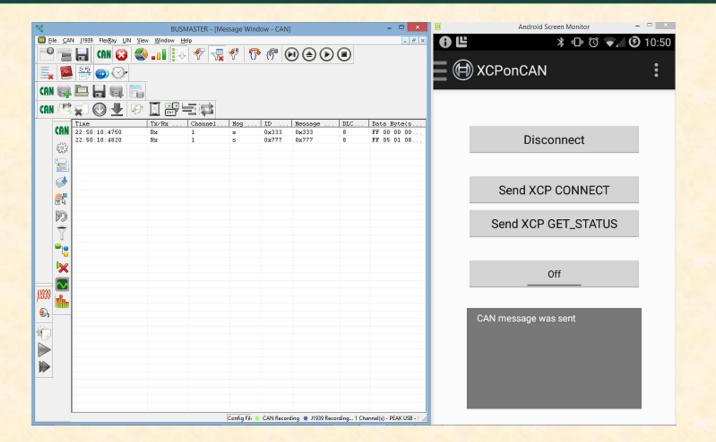
Initial Launch





The Capstone Experience

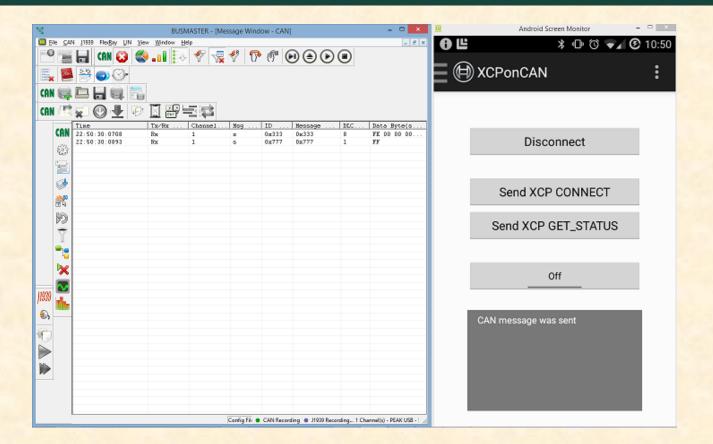
Send XCP CONNECT







Send XCP GET_STATUS



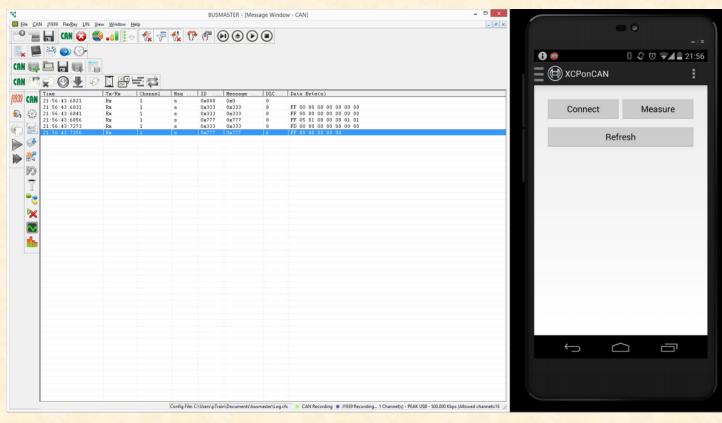




Team Bosch Beta Presentation

Connect

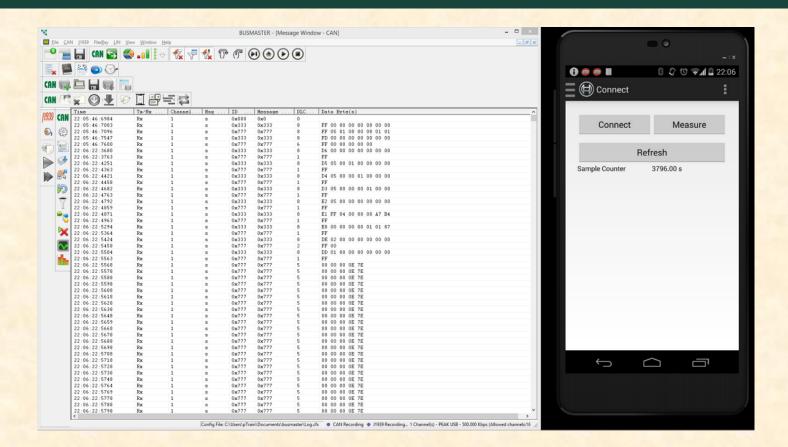
Team Bosch Beta Presentation





Team Bosch Beta Presentation

Measure



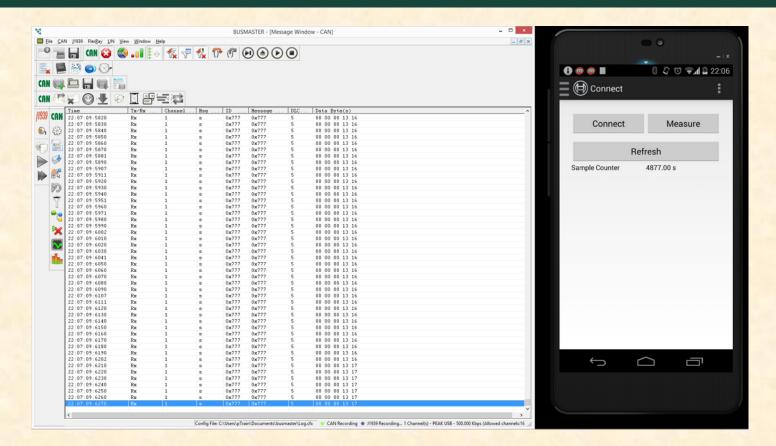




Team Bosch Beta Presentation

Team Bosch Beta Presentation

Updating Value







Team Bosch Design Day

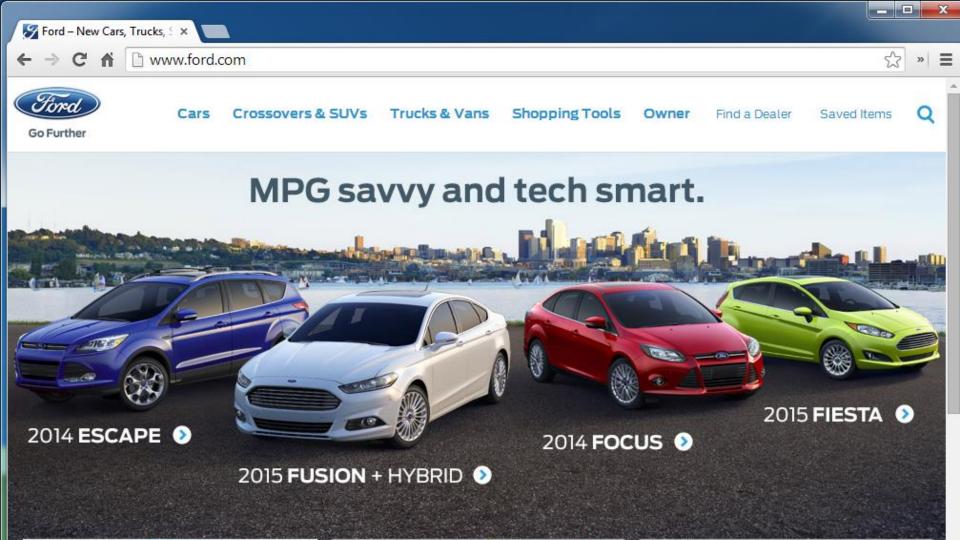




Team Ford

Department of Computer Science and Engineering
Michigan State University
Fall 2014





Team Ford Project Overview

Vehicle Audit Analytics

- Functionalities
 - Enable Ford Designers
 - To Benchmark Ford and Lincoln Products
 - Against Global Competitors
 - Via Mobile Web App
- Features
 - Target Tablet-Size Devices
 - Maintain Audit Forms Questions and Responses
 - Use Device Camera and Microphone
 - Work With and Without Internet Connection
 - Export Data and Reports
 - Encrypt Data During Storage and Transport
- Technologies
 - HTML5, CSS, JavaScript
 - AJAX (Asynchronous JavaScript and XML)
 - J2EE (Java 2 Platform Enterprise Edition)
 - Microsoft SQL Server 2012





Dearborn, Michigan



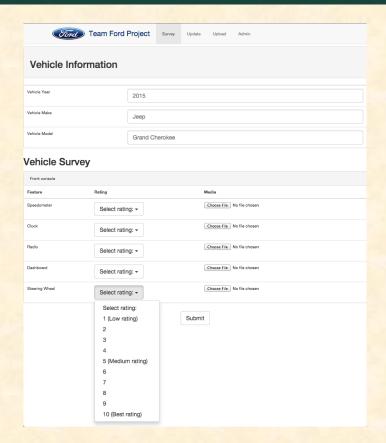


Team Ford

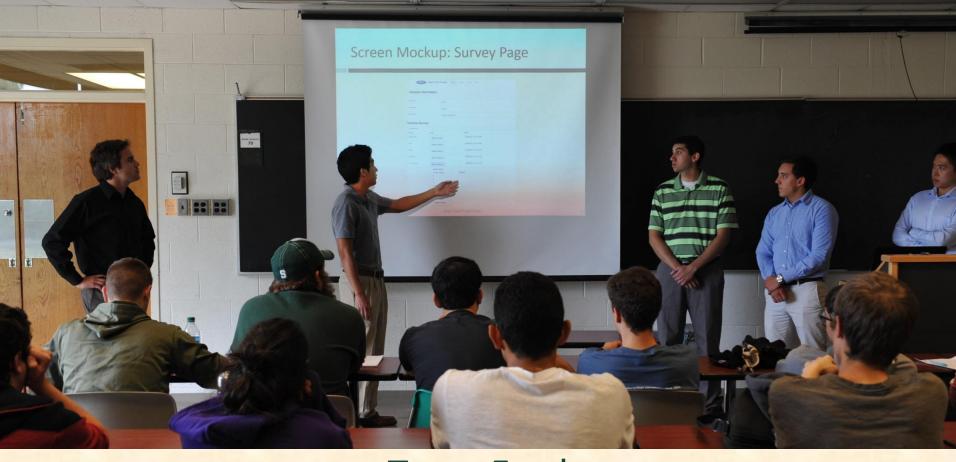
Aaron Torres, Peng Zhang, Zachary Madejek, Jake Prickett, Tyler Olsen

Team Ford Project Plan Presentation

Screen Mockup

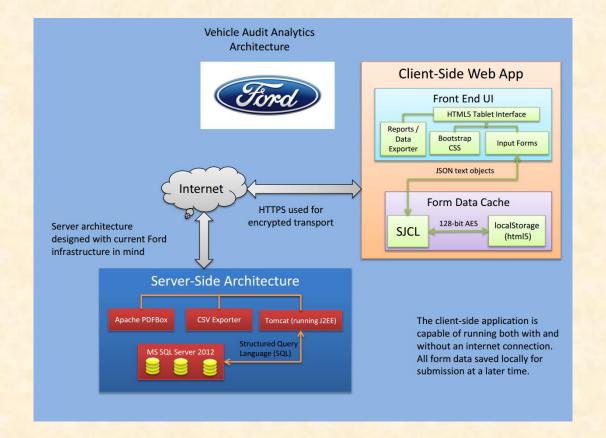






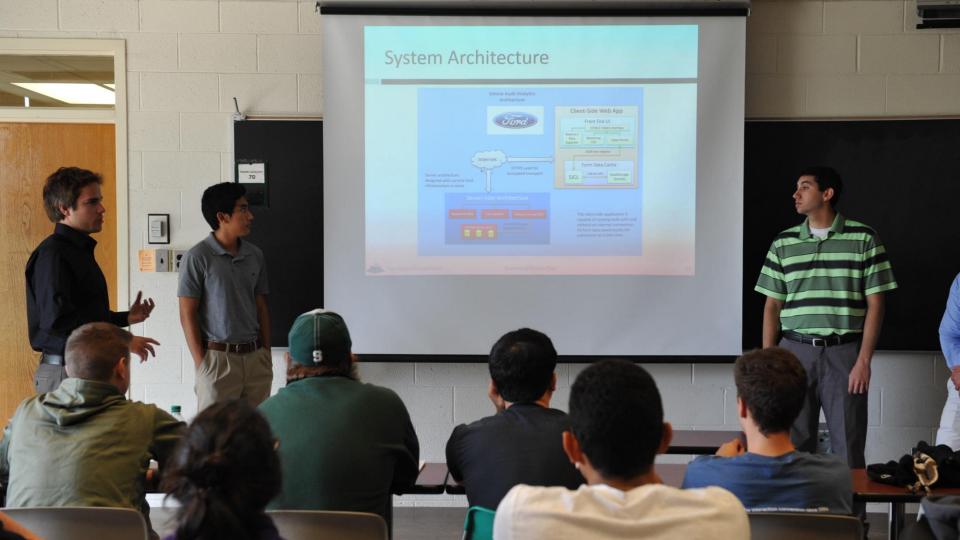
Team Ford Project Plan Presentation

Team Ford Project Plan Presentation Architecture Diagram





The Capstone Experience



Team Ford Project Plan Presentation

Screen Mockup

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Select Existing Survey: -							
2015 Jeep Cherokee 2015 Porsche Cayenne							
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Vehicle Year		2015					
Vehicle Make		Jeep					
Vehicle Model	Grand Cherokee						
Vehicle Survey							
Front console							
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Clock	4 ▼	Cho	ose File No	ile chosen			
Radio	4 🕶	Cho	ose File No	ile chosen			
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Steering Wheel	8 🕶	Cho	iose File No	ile chosen			
			Update				



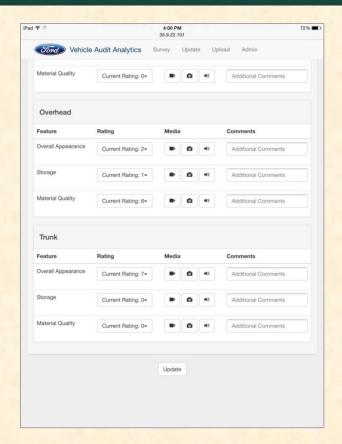


Team Ford Alpha Presentation

Team Ford Alpha Presentation

Survey Page

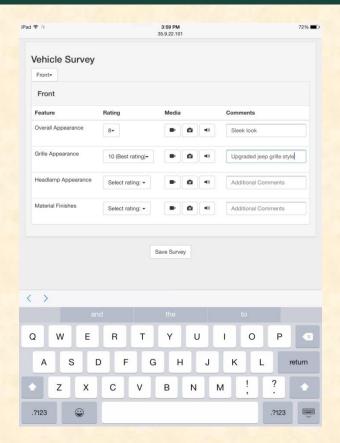
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Vehicle Audit Analytics Survey Update Upload Admin								
/ehicle Survey								
All ▼								
Front								
Feature	Rating	Media	(Comments				
Overall Appearance	Current Rating: 5▼	• 0	40)	Additional Comments				
Grille Appearance	Current Rating: 7▼	• 0	40)	Additional Comments				
Headlamp Appearance	Current Rating: 3▼	• 0	4 0)	Additional Comments				
Material Finishes	Current Rating: 5▼		4)	Additional Comments				
Side								
Feature	Rating	Media		Comments	ts			
Overall Appearance	Current Rating: 0+		40	Additional Comments				
Window Appearance	Current Rating: 0▼		■ 0	Additional Comments				
Side Mirror Appearance	Current Rating: 2▼		◄ 0	Additional Comments				
Material Finishes	Current Rating: 0▼		4)	Additional Comments				
Rear								





Team Ford Alpha Presentation Rating Dropdown & Front Survey







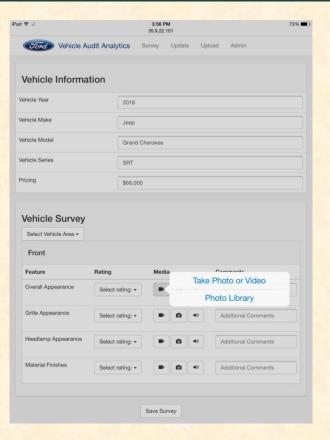
The Capstone Experience



Team Ford Alpha Presentation

Team Ford Alpha Presentation

Adding a Photo



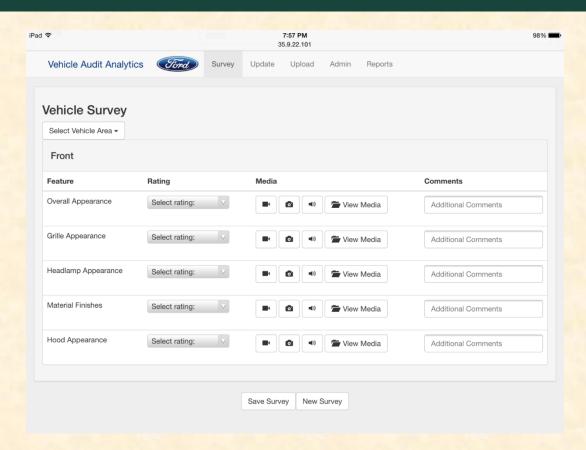




Team Ford Beta Presentation

Team Ford Beta Presentation

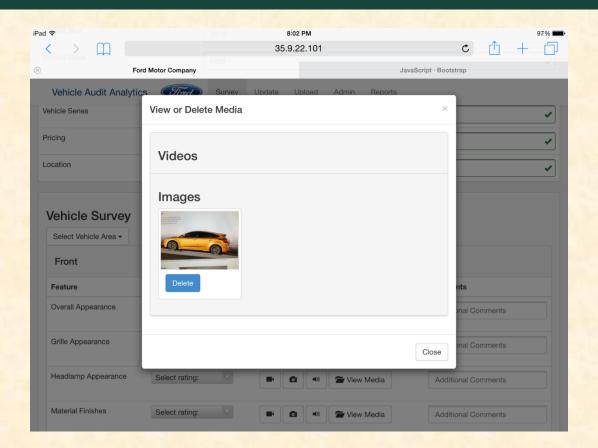
Survey Tab





Team Ford Beta Presentation

View Media



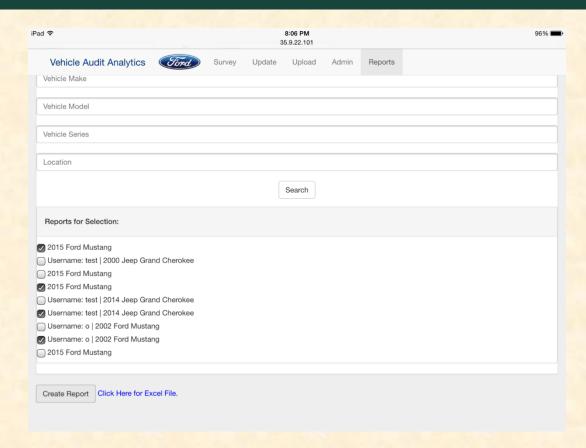




Team Ford Beta Presentation

Team Ford Beta Presentation

Reports Tab







Team Ford Design Day

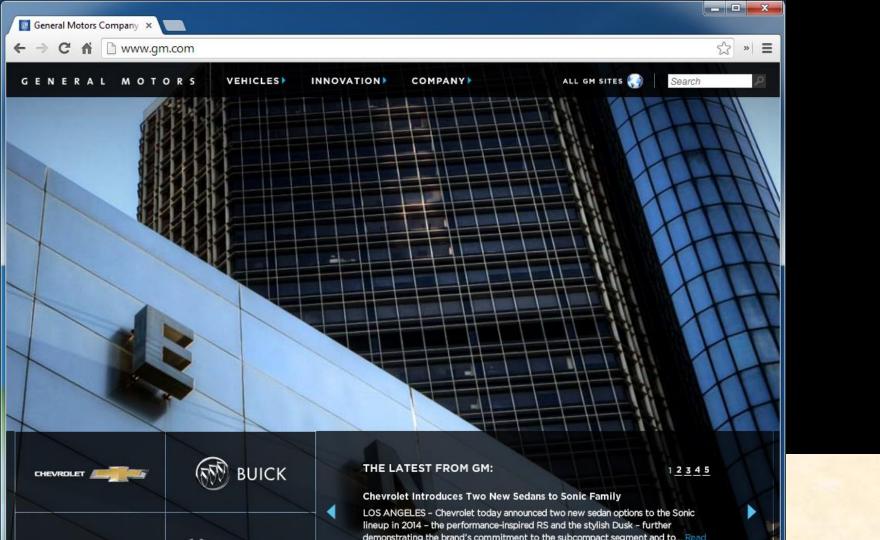




Team GM

Department of Computer Science and Engineering
Michigan State University
Fall 2014





Team GM Project Overview

Productivity Toolbar (aka Fast App Launcher)

- Functionalities
 - Organize and Launch Commonly Used Apps
 - Via
 - Web Browser
 - Windows Desktop App
- Features
 - Provide Individualized App Organization
 - Add and Delete
 - Configuration
 - Layout
 - Support Internet Explorer, Chrome and Firefox
 - Handle Apps Pushed by Corporate
 - Interface with Library of Available Apps
 - Base on User's Authenticated Identity
- Technologies
 - CSS, HTML, JavaScript
 - Internet Explorer, Chrome and Firefox
 - Microsoft .NET, Visual Studio







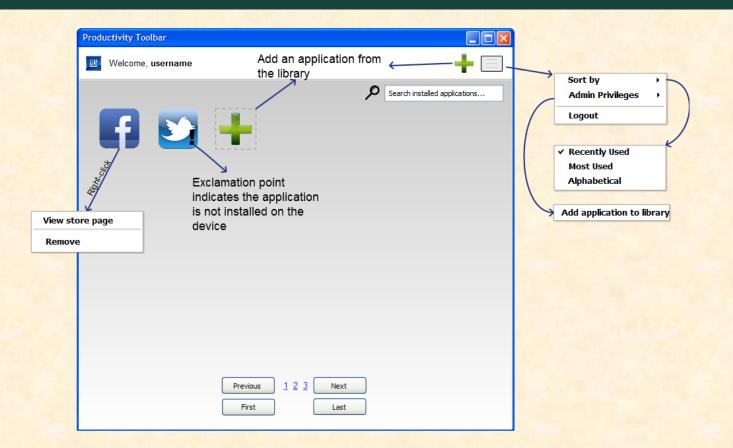


Team GM

Ruoqing Chen, David Barrie, Kevin Piotrowski, Kan Zhou, Justin Rucinski

Team GM Project Plan Presentation

Screen Mockup

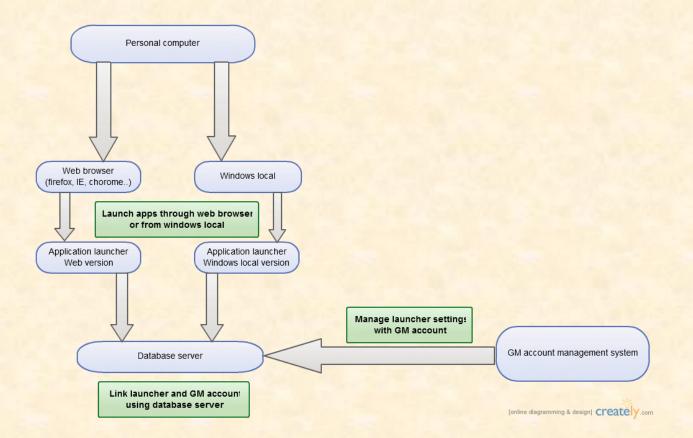






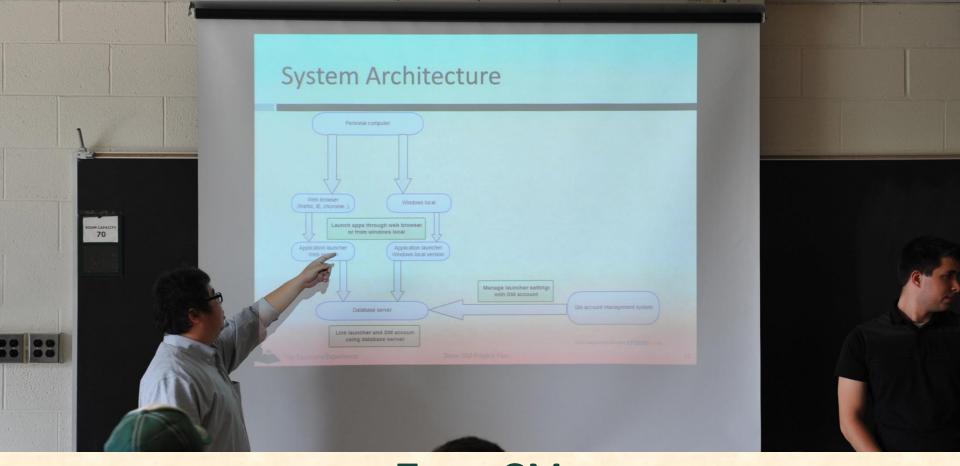
Team GM Project Plan Presentation

Team GM Project Plan Presentation Architecture Diagram





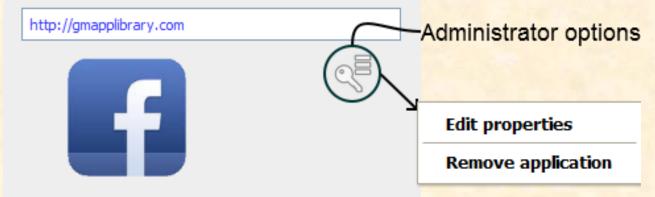
The Capstone Experience



Team GM Project Plan Presentation

Team GM Project Plan Presentation

Screen Mockup



Application: application name

Version: version #

Description: description...

Download





Team GM Alpha Presentation

Desktop User App Panel

Experience

The Capstone





Desktop Add App Panel

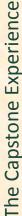
Office

Social

Education

Leaming



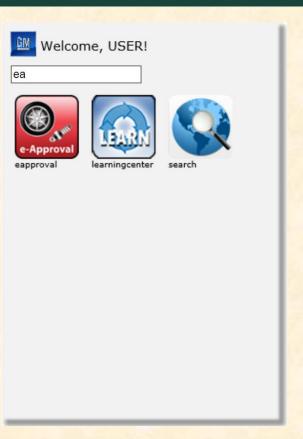






Web Launcher









Team GM Beta Presentation

Team GM Beta Presentation

Web Launcher





Team GM Beta Presentation

Desktop Launcher







Team GM Beta Presentation

Team GM Beta Presentation

Web App Store







Team GM Design Day

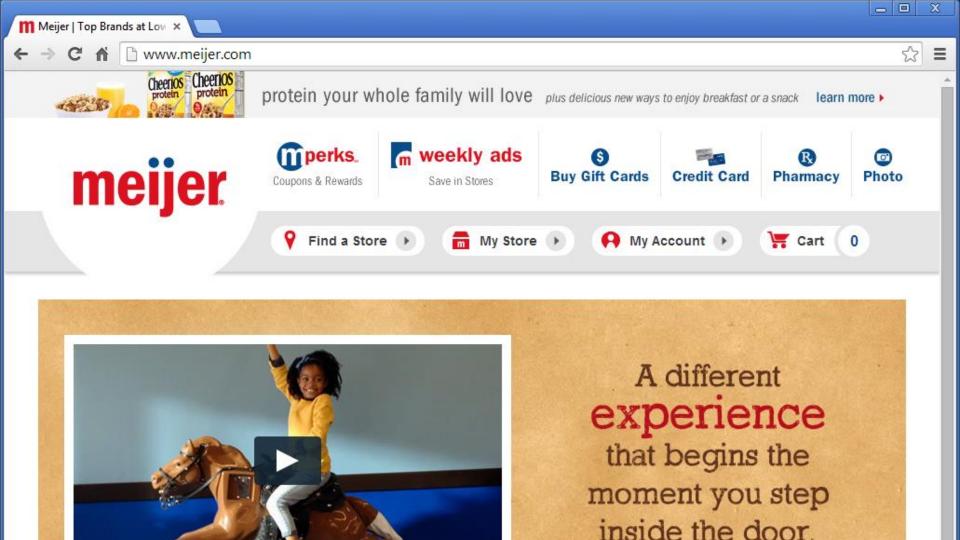


The Capstone Experience



Team Meijer

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Fall 2014



The Capstone Experience

Team Meijer Project Overview

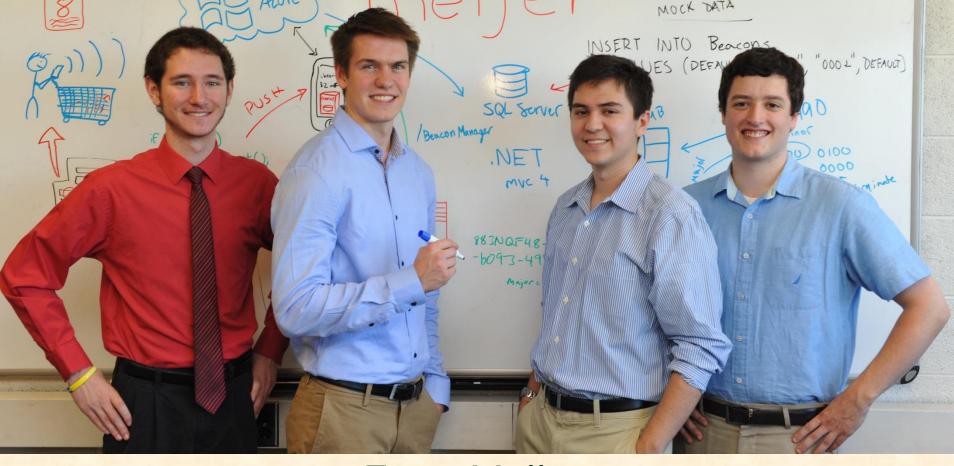
Mobile Location-Based Product Promotion

- Functionalities
 - Make Meijer Customer Aware of Sale Items
 - Based On Customer's
 - Location in Store
 - Shopping Preferences
 - Via Customer's Mobile Device
- Features
 - Support
 - Weekly Sale Items
 - Vendor Promotional Dollars
 - Generate and Present Analytics
 - Integrate with Customer's mPerks Account
 - Provide System Administrator Interface
- Technologies
 - Xamarin or PhoneGap
 - iBeacon
 - Crashlytics
 - Mobile Development (Apple iOS or Google Android)
 - Microsoft .NET, Azure Mobile Service
 - Meijer Web Services









Team Meijer

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

The Capstone Experience

Team Meijer Project Plan Presentation

Screen Mockup









Flurry

User receives push message about a product in their region of the store.

User can view advertisement and add to shopping list.





Team Meijer Project Plan Presentation

Team Meijer Project Plan Presentation Architecture Diagram

Systems Architecture

TEAM MEIJER - FALL 2014 App Analytics Log App Events **Location Tracking** API Calls Data Storage & Access Admin Web Interface Windows Azure SOL Server Mobile App **Customer Analytics** iBeacon **Database** .NET MVC 4.0 iBeacon Management **Crash Reporting** Crittercism **Debugging & Crash Analysis**



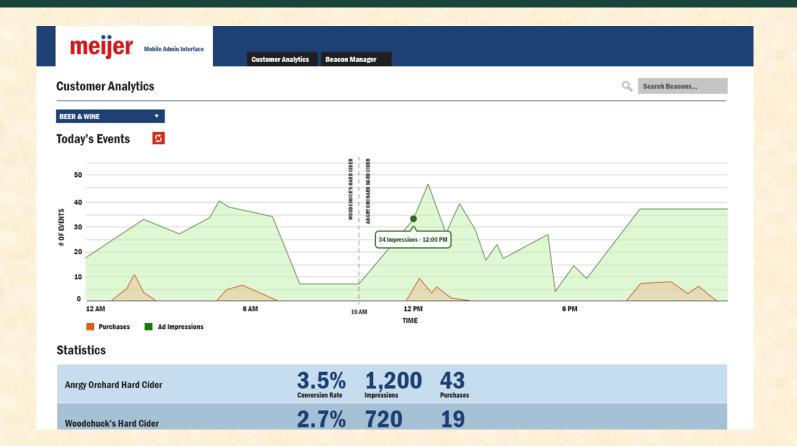
The Capstone Experience



Team Meijer Project Plan Presentation

Team Meijer Project Plan Presentation

Screen Mockup



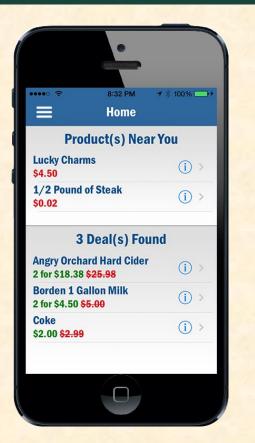




Team Meijer Alpha Presentation

Team Meijer Alpha Presentation Product Promotion Notifications

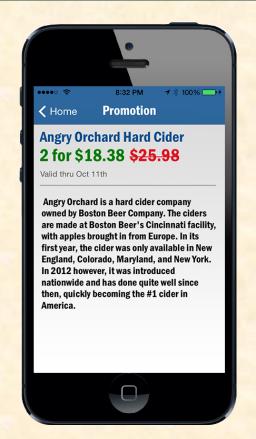


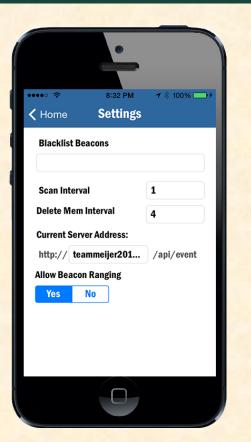




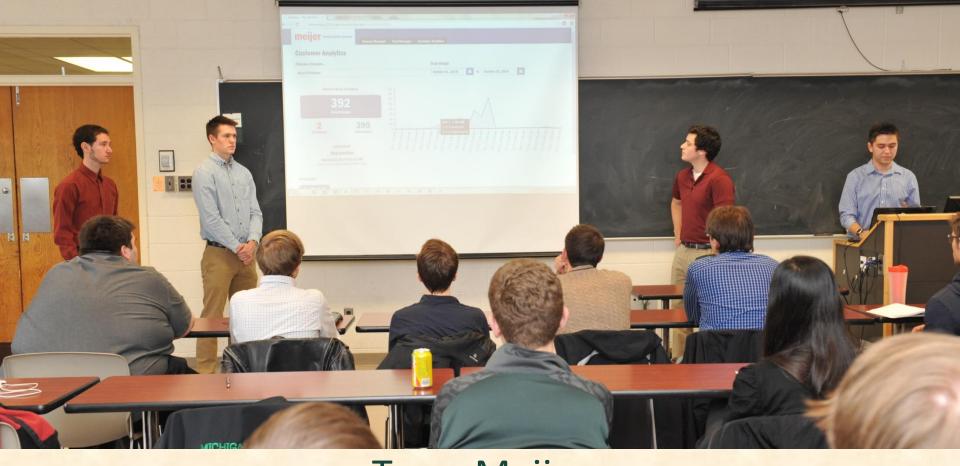
The Capstone Experience

Team Meijer Alpha Presentation Promotion Details and Settings







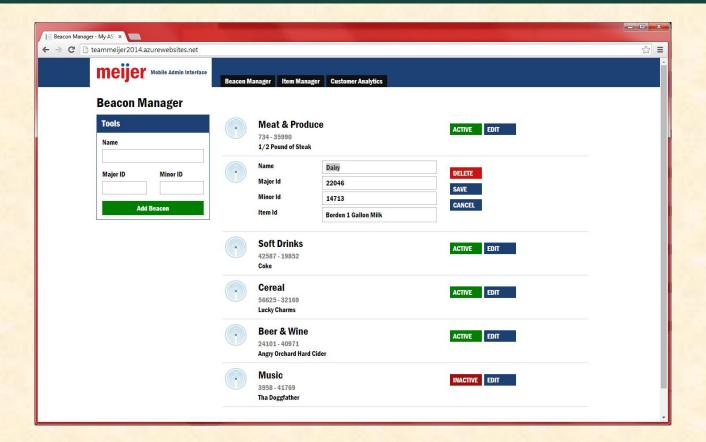


Team Meijer Alpha Presentation

he Capstone Experience

Team Meijer Alpha Presentation

Beacon Manager





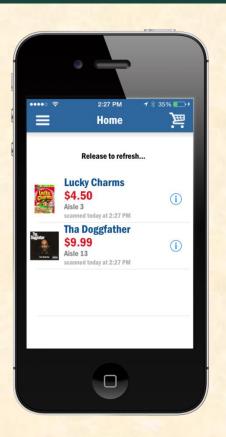


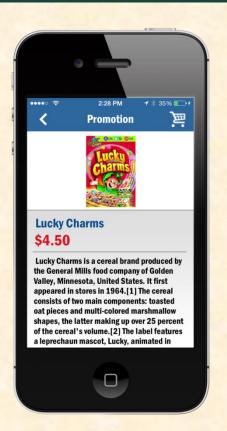
Team Meijer Beta Presentation

he Capstone Experience

Team Meijer Beta Presentation

Product Promotions

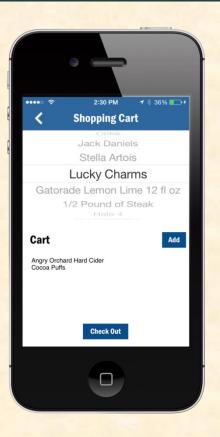






Team Meijer Beta Presentation

Shopping Cart





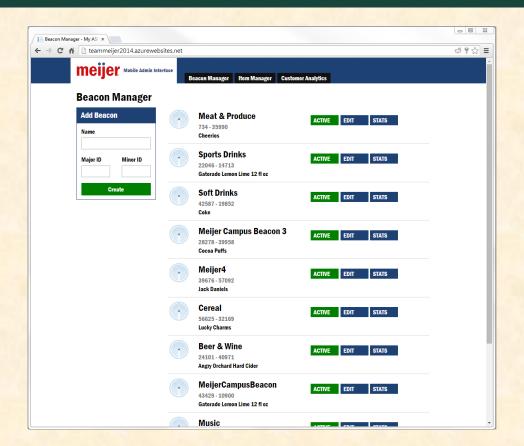


Team Meijer Beta Presentation

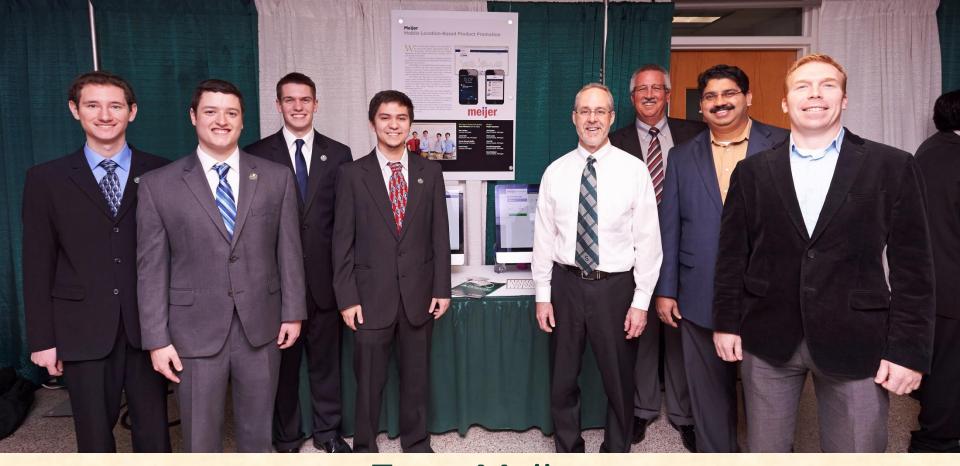
he Capstone Experience

Team Meijer Beta Presentation

Beacon Manager







Team Meijer Design Day



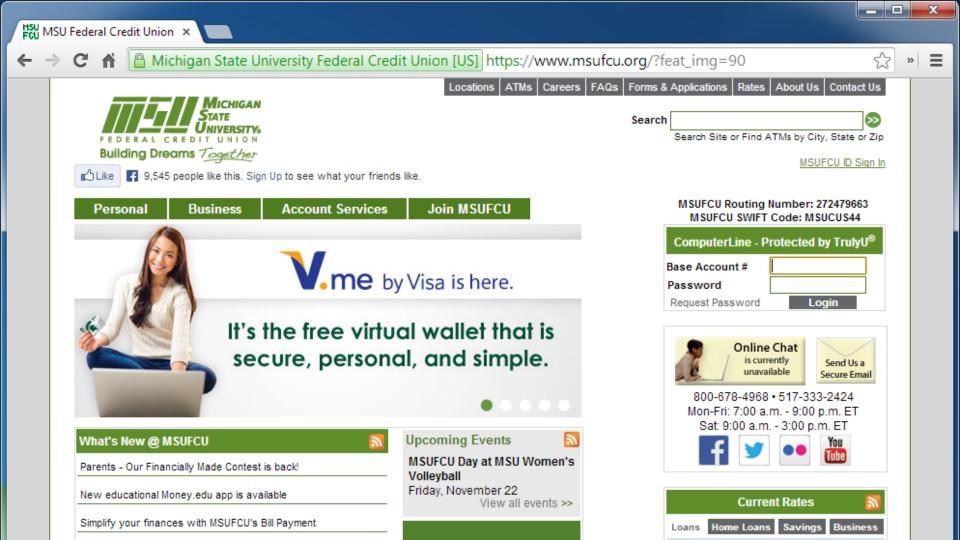
The Capstone Experience



Team MSUFCU

Department of Computer Science and Engineering
Michigan State University
Fall 2014





The Capstone Experience

Team MSUFCU Project Overview

Refer A Friend Website and Mobile App

- Functionalities
 - Enable MSUFCU Members to Refer
 - Family and Friends
 - To Become MSUFCU Members
 - Via Website and Mobile App
- Features
 - Provide Incentives To
 - Referring Member
 - New Member
 - Gear Especially to MSU Students
 - Include Social Media Sharing Function
 - Facebook
 - Twitter
 - Reflect MSUFCU Look-and-Feel and Branding
- Technologies
 - CSS, HTML, PHP, JavaScript
 - Apple iPhone and iPad (iOS) Development
 - Google Android Development
 - Microsoft SQL Server









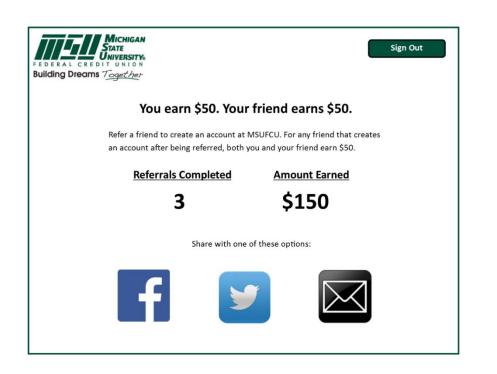
Team MSUFCU

Chris Benoit, Sahil Tandon, Josh Shadik, Yaxing Li

he Capstone Experience

Team MSUFCU Project Plan Presentation

Screen Mockups





You earn \$50. Your friend earns \$50.

Refer a friend to create an account at MSUFCU. For any friend that creates an account after being referred, both you and your friend earn \$50.

Referrals Completed

3

Amount Earned

\$150

Share with one of these options:





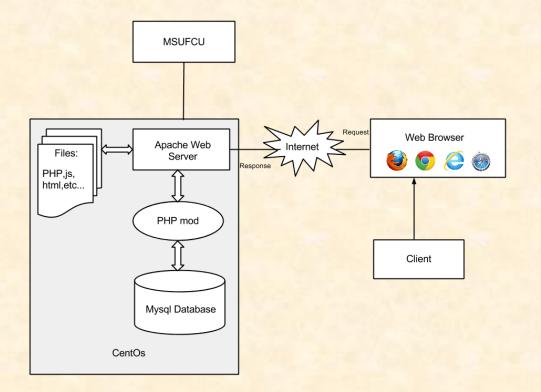






Team MSUFCU Project Plan Presentation

Team MSUFCU Project Plan Presentation Architecture Diagram





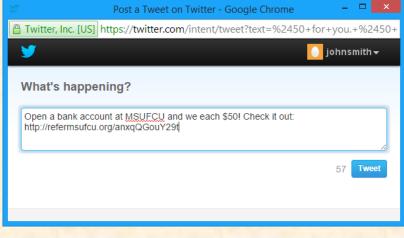
The Capstone Experience



Team MSUFCU Project Plan Presentation

Screen Mockups





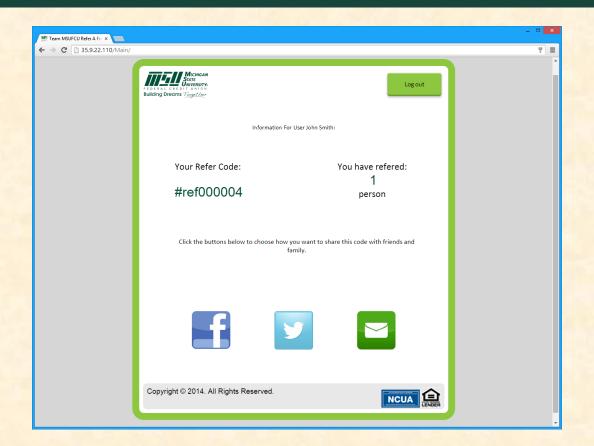




Team MSUFCU Alpha Presentation

Team MSUFCU Alpha Presentation

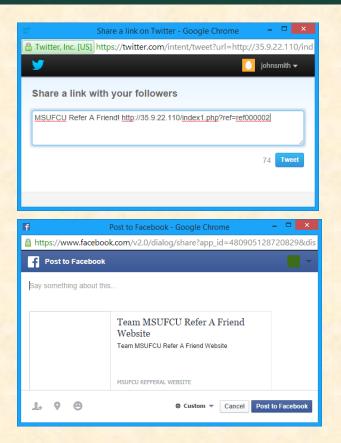
User Page

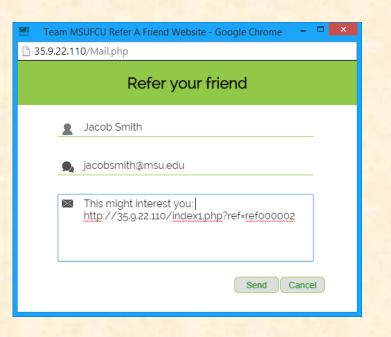




Team MSUFCU Alpha Presentation

Share Dialogs









Team MSUFCU Alpha Presentation

Team MSUFCU Alpha Presentation

Mobile User Page



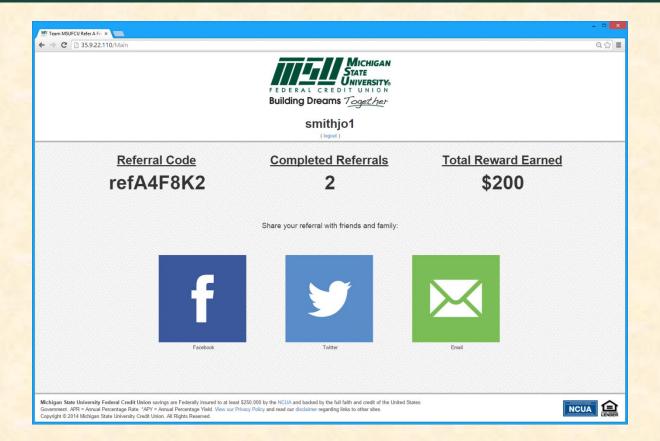




Team MSUFCU Beta Presentation

Team MSUFCU Beta Presentation

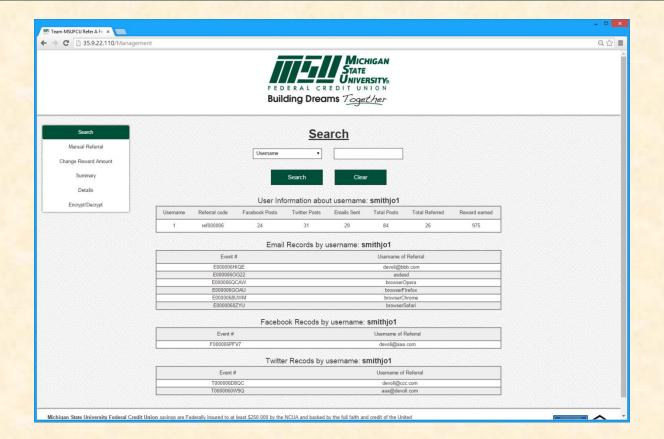
Landing Page





Team MSUFCU Beta Presentation

Management Page



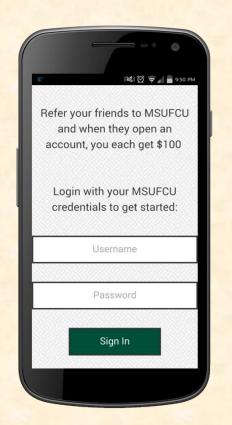


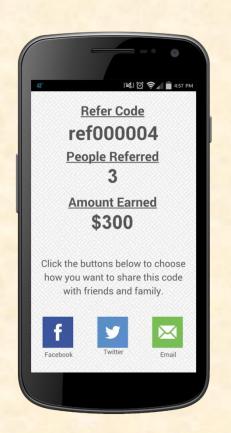


Team MSUFCU Beta Presentation

Team MSUFCU Beta Presentation

Mobile App









Team MSUFCU Design Day





Team Quicken Loans

Department of Computer Science and Engineering
Michigan State University
Fall 2014

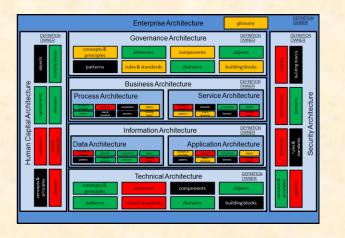
Quicken Loans Engineered to Amaze **The control of the control o



Team Quicken Loans Project Overview

Enterprise Architecture Visualizer

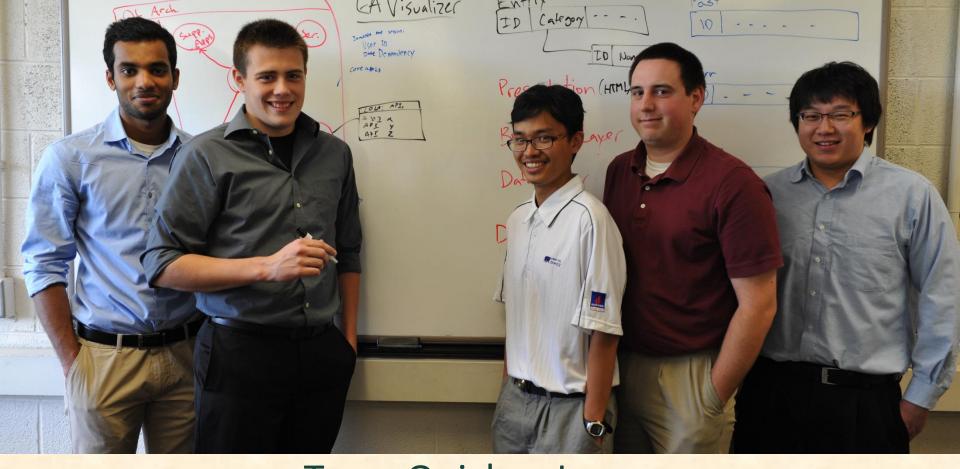
- Functionalities
 - Model and Display Visual Dependency Map
 - Of Quicken Loans' Enterprise Architecture
 - Including All Major Applications
- Features
 - Provide
 - Web-Based App
 - Drag-and-Drop Capabilities for All Assets
 - Include
 - Server Names
 - Database Names
 - Teams that Support Applications
 - Support Future States
- Technologies
 - CSS, HTML, JavaScript
 - Microsoft Internet Information Services (IIS)
 - Microsoft C#
 - SQL Server 2005 and Higher





Detroit, Michigan



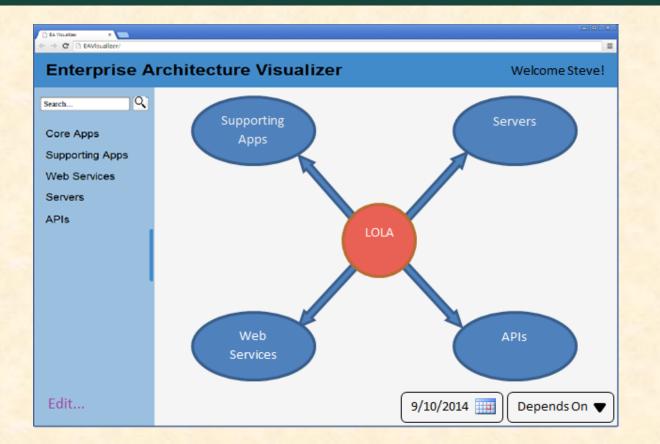


Team Quicken Loans

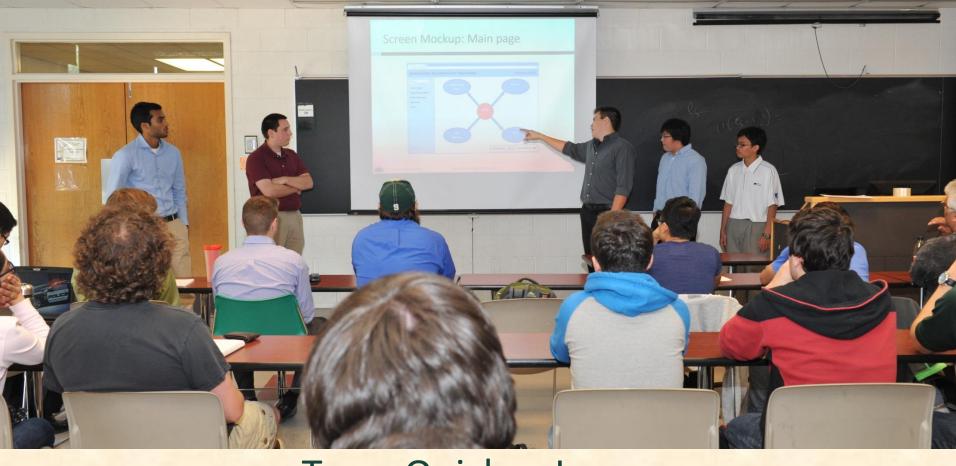
Ari Polavarapu, Jeff Johnson, Minh Pham, Garret Smith, Steve Choo

Team Quicken Loans Project Plan Presentation

Screen Mockup





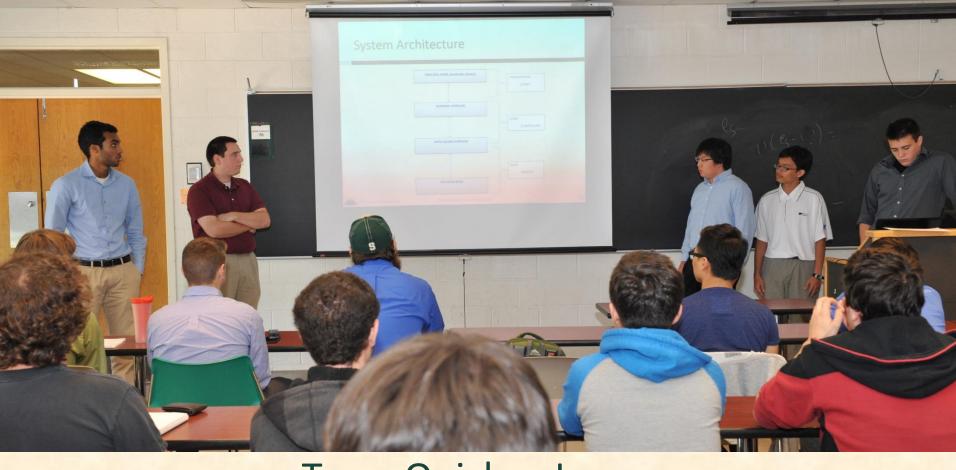


Team Quicken Loans Project Plan Presentation

Team Quicken Loans Project Plan Presentation Architecture Diagram



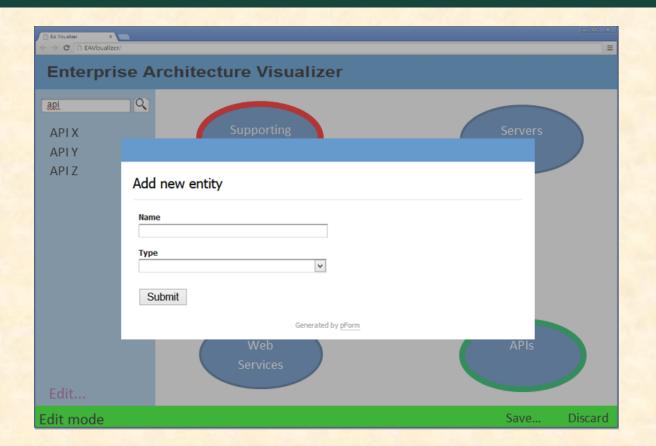




Team Quicken Loans Project Plan Presentation

Team Quicken Loans Project Plan Presentation

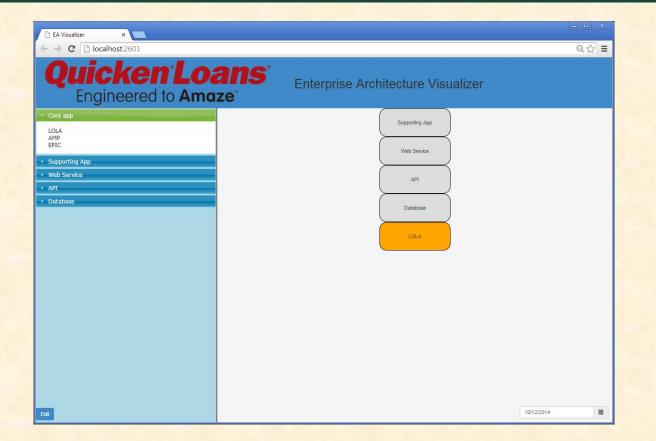
Screen Mockup







Initial App Screen





Editing Entities

Add Entity	Х
Entity Name:	
Entity Category:	
Core app ▼	
Effective Date:	
10/12/2014	i
End Date:	
10/12/2014	繭
	Close Save changes

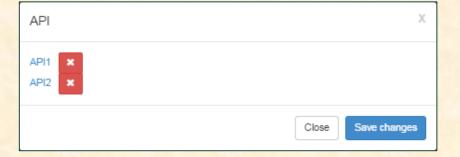
Delete Entity	Х
Entity Name: LOLA ▼	
	Close Delete Entity





Editing Dependencies

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Dependency Entity: LOLA ▼ Effective Date:	
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End Date:	
10/12/2014	=
Close Save chan	ges



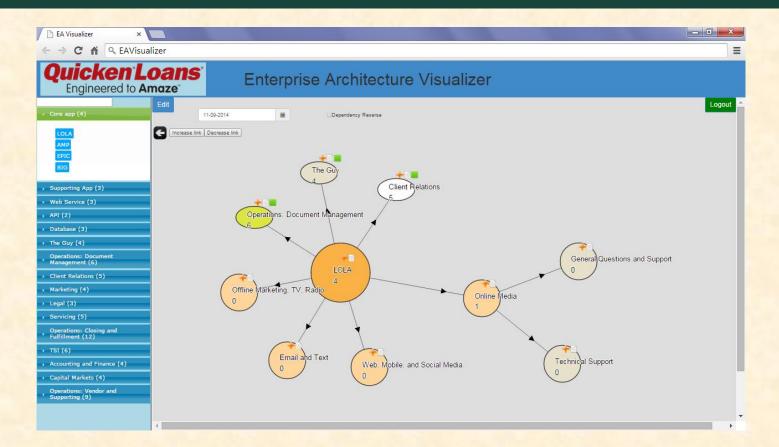




Team Quicken Loans Beta Presentation

Team Quicken Loans Beta Presentation

Expanded Dependencies

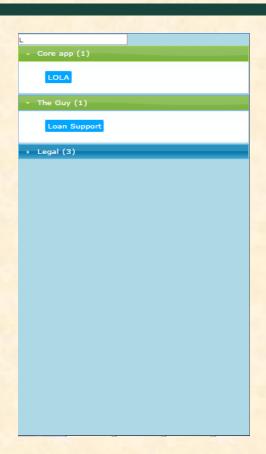




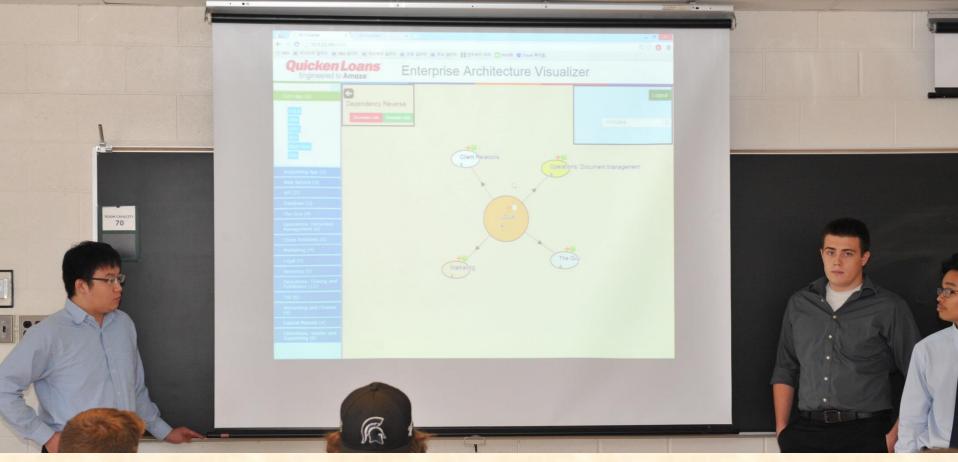
Live Search



After Typing "L" in the Search Bar

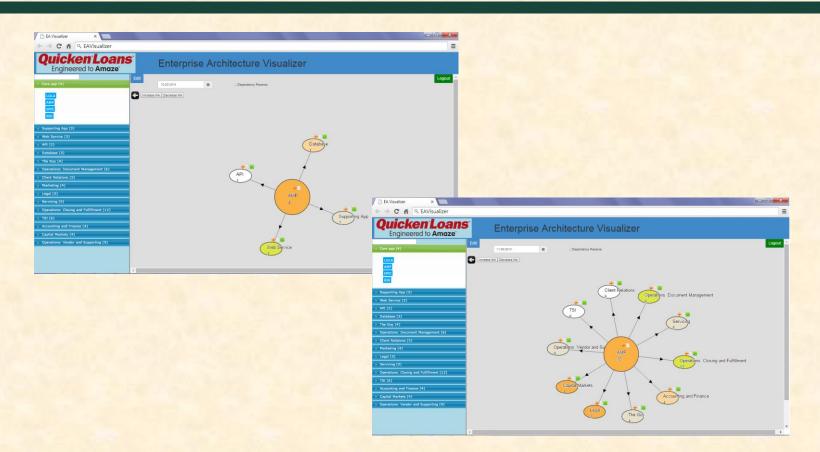






Team Quicken Loans Beta Presentation

Snapshots by Date







Team Quicken Loans Design Day





Team Spectrum Health

Department of Computer Science and Engineering
Michigan State University
Fall 2014

SPECTRUM HEALTH



Team Spectrum Health Project Overview

Employee Discount Mobile App

- Functionalities
 - Provide Access to Employee Discounts
 - For Spectrum Health Employees
 - Via Mobile App
- Features
 - Support Apple iPhone and Google Android
 - Handle Frequent Changes and Updates
 - Include Additional Discounts for Priority Health Employees
- Technologies
 - CSS, HTML5, JavaScript
 - AngularJS
 - ASP.net MVC
 - Microsoft Internet Information Services (IIS) 7.0
 - RESTful Web Service Layer





Grand Rapids, Michigan



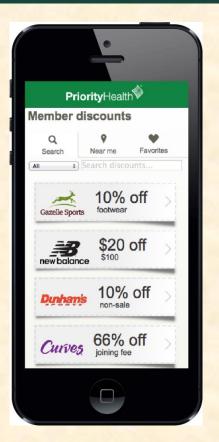


Team Spectrum Health

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

Team Spectrum Health Project Plan Presentation

Screen Mockup

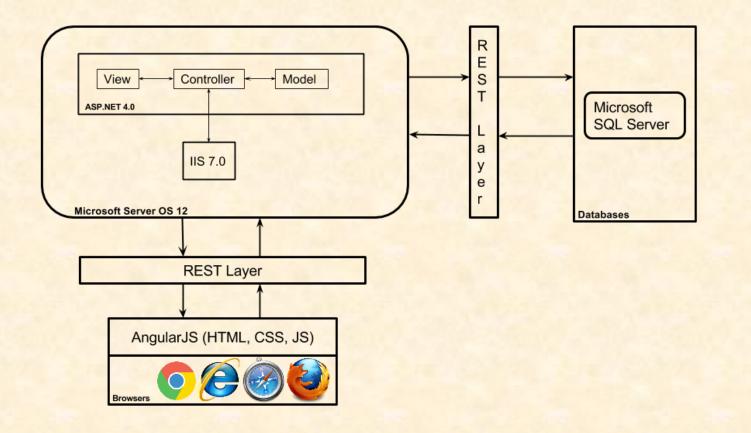






Team Spectrum Health Project Plan Presentation

Team Spectrum Health Project Plan Presentation Architecture Diagram





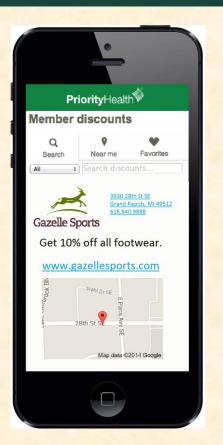
The Capstone Experience



Team Spectrum Health Project Plan Presentation

Team Spectrum Health Project Plan Presentation

Screen Mockup



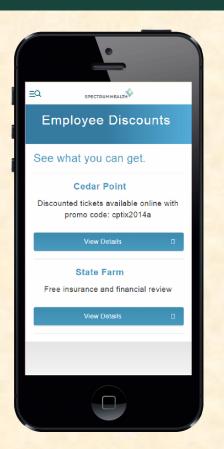




Team Spectrum Health Alpha Presentation

Team Spectrum Health Alpha Presentation

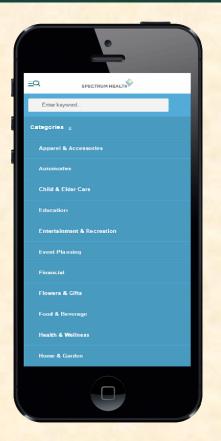
Landing Page

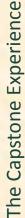




Team Spectrum Health Alpha Presentation

Category Selection





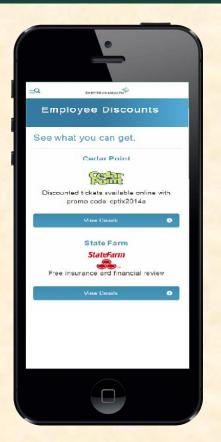




Team Spectrum Health Alpha Presentation

Team Spectrum Health Alpha Presentation

Promotion Details



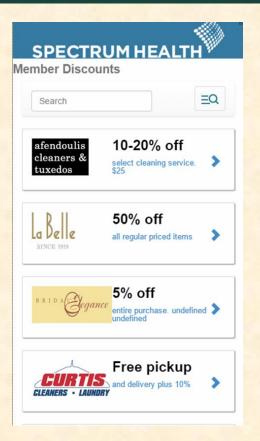


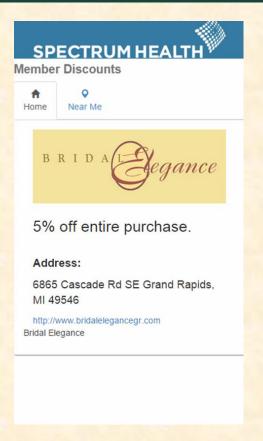


Team Spectrum Health Beta Presentation

Team Spectrum Health Beta Presentation

Phone View of App

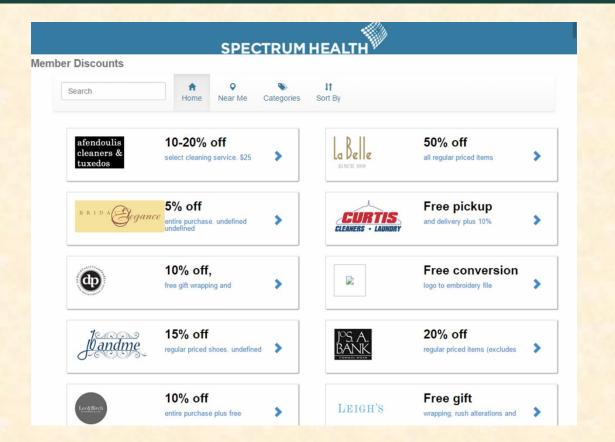






Team Spectrum Health Beta Presentation

Tablet View of App



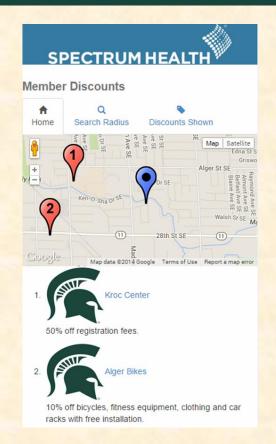




Team Spectrum Health Beta Presentation

Team Spectrum Health Beta Presentation

Near Me and Map Features









Team Spectrum Health Design Day

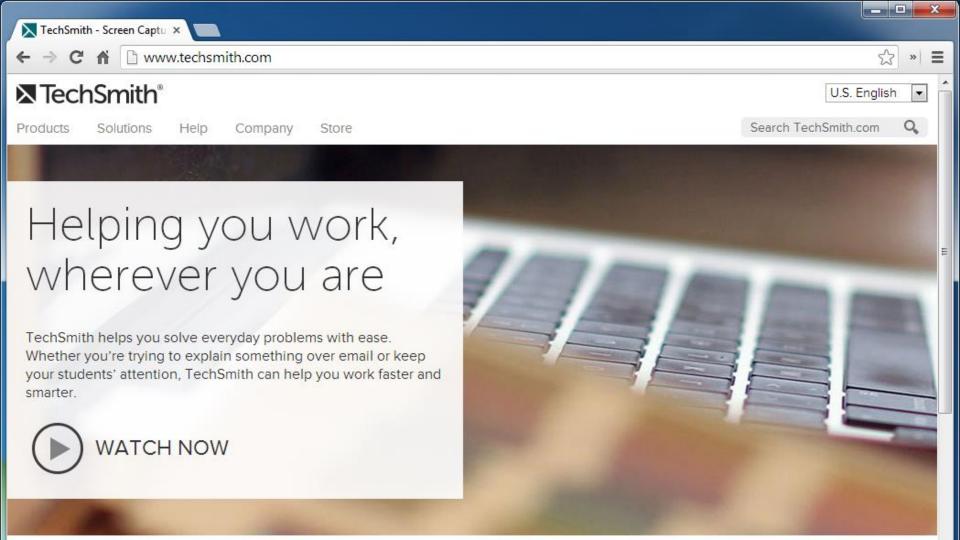




Team TechSmith

Department of Computer Science and Engineering
Michigan State University
Fall 2014

TechSmith



Team TechSmith Project Overview

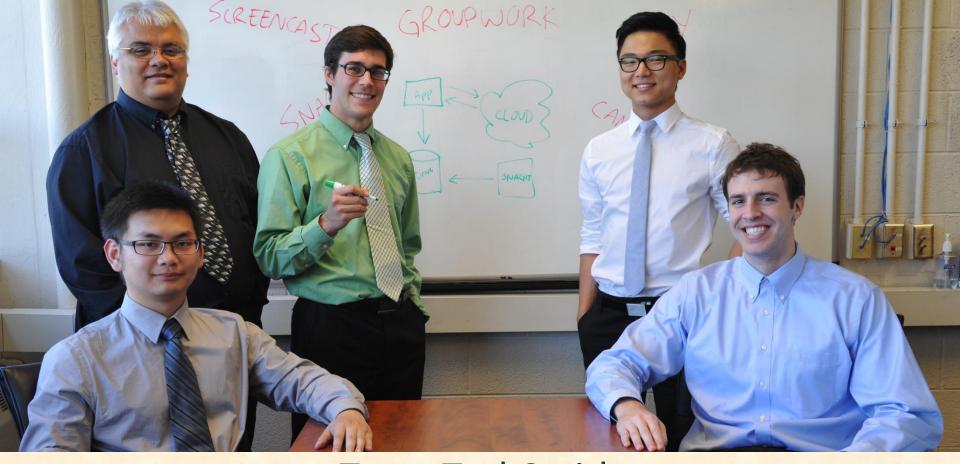
Groupwork for Google Chrome

- Functionalities
 - Facilitate Group Activities and Projects
 - Using Content Created or Collected with Snagit for Chrome
 - Via a Google Chrome App
- Features
 - Create and Maintain Groups
 - Maintain Activities and Projects
 - o Create
 - Assign Tasks and Roles
 - Facilitate Parts
 - Track Progress
 - Provide Various Views
 - My Groups
 - My Projects
 - A Project
 - Support Several Project Types
 - Integrate Seamlessly
 - With Snagit for Chrome
 - With Google Docs and Google Drive
 - Instrument with Google Analytics
- Technologies
 - HTML5, CSS, JavaScript
 - Google App APIs
 - Google Drive SDK
 - Google Analytics







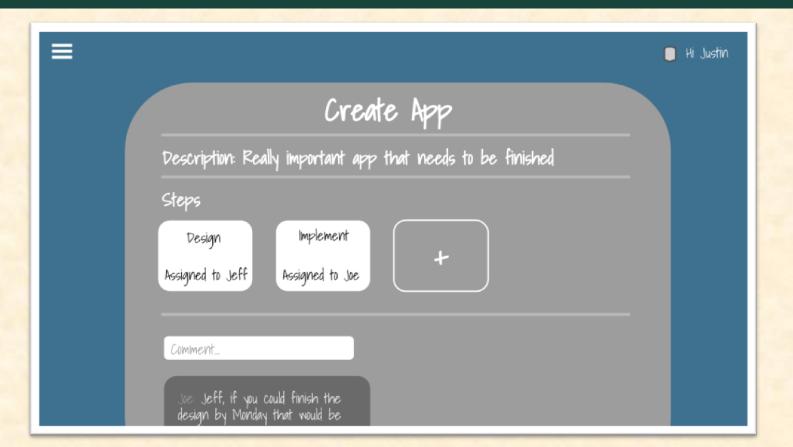


Team TechSmith

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

Team TechSmith Project Plan Presentation

Screen Mockup

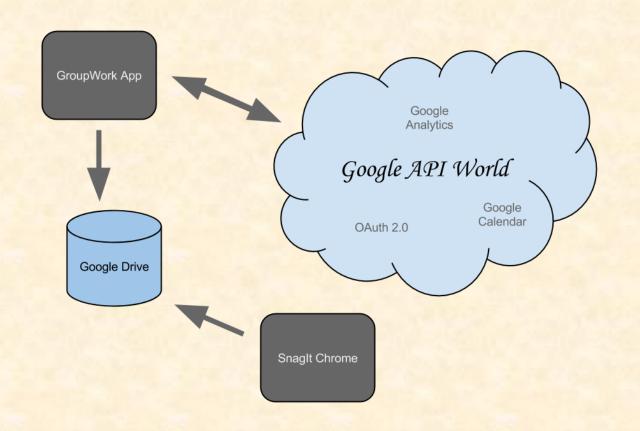






Team TechSmith Project Plan Presentation

Team TechSmith Project Plan Presentation Architecture Diagram







Team TechSmith Project Plan Presentation

Screen Mockup







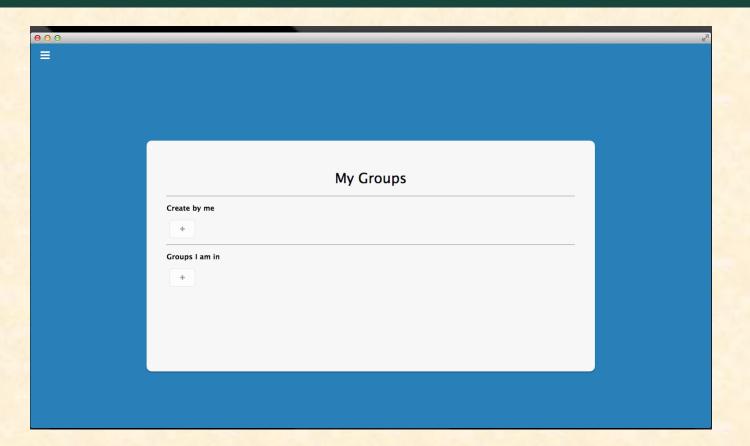
Landing Page





The Capstone Experience

My Groups

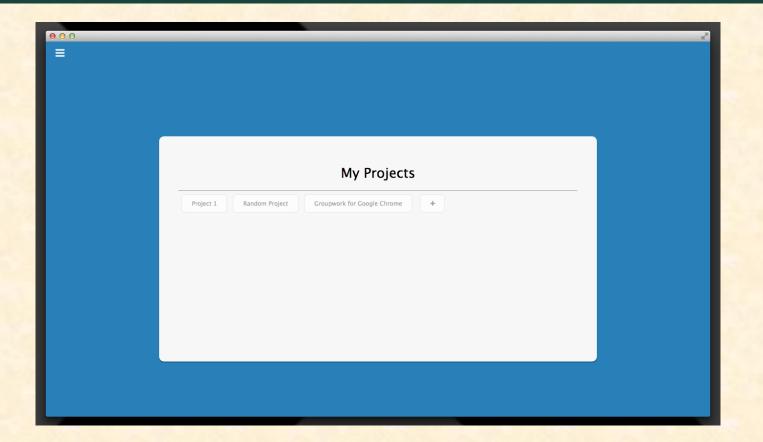




The Capstone Experience



My Projects





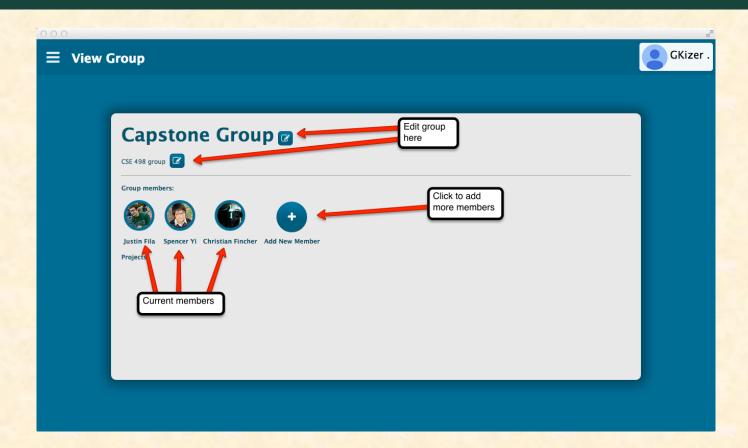
The Capstone Experience



Team TechSmith Beta Presentation

Team TechSmith Beta Presentation

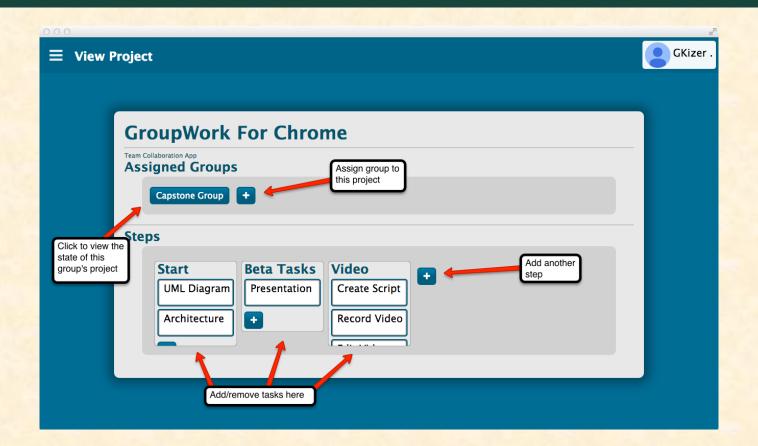
Group View





Team TechSmith Beta Presentation

Project View



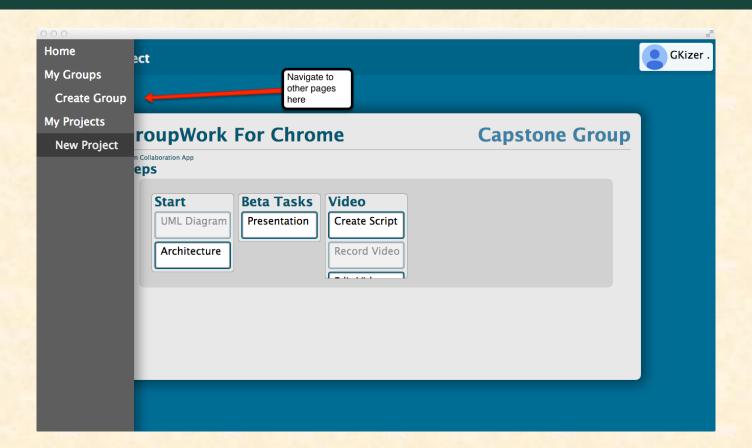




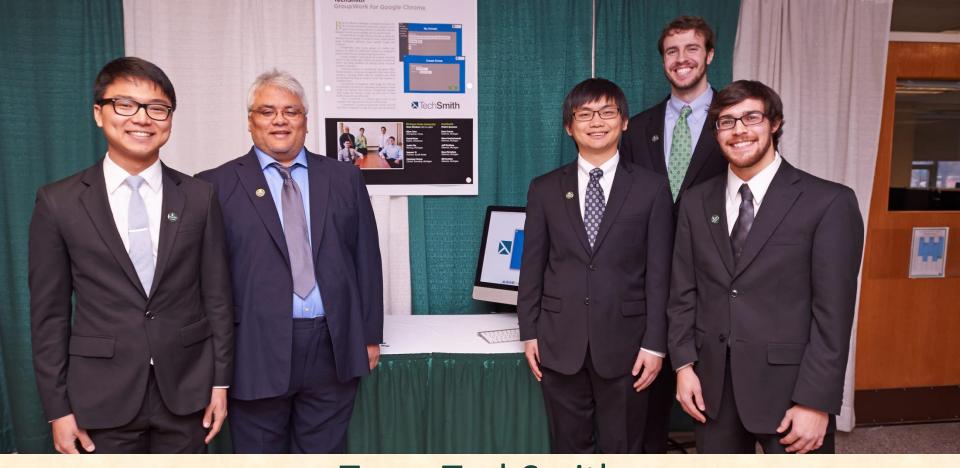
Team TechSmith Beta Presentation

Team TechSmith Beta Presentation

Navigation Bar







Team TechSmith Design Day



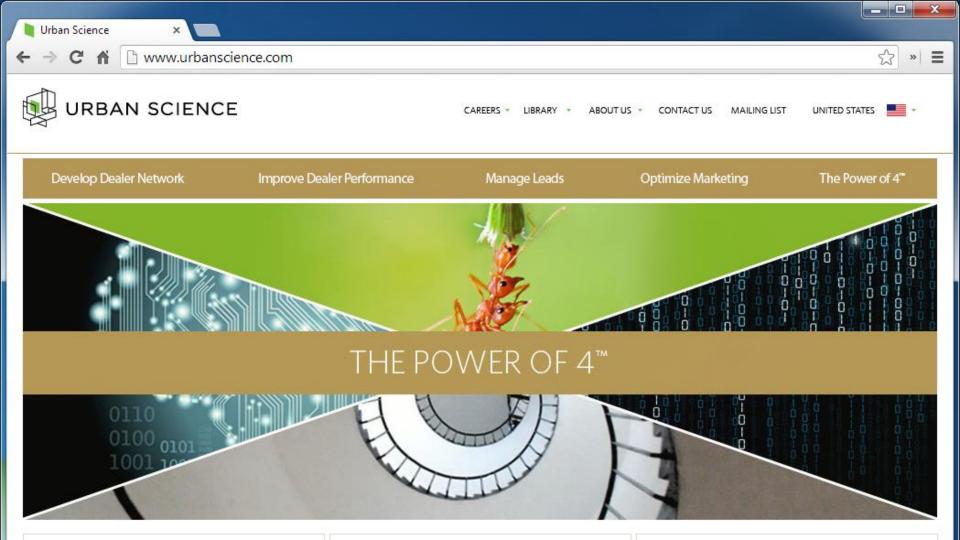


Team Urban Science

Department of Computer Science and Engineering
Michigan State University
Fall 2014



URBAN SCIENCE.



Team Urban Science Project Overview

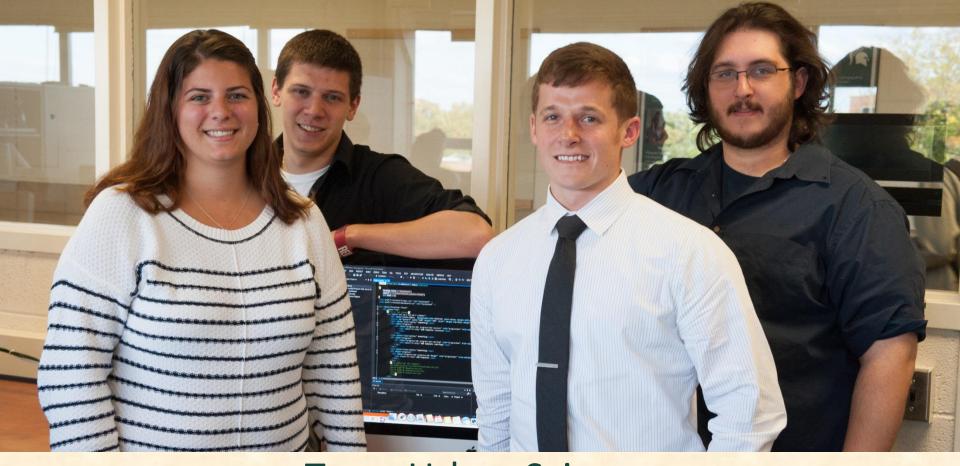
HR Matters

- Functionalities
 - Enable Assessment of Behavioral Competencies
 - Of Automobile Dealership Employees
 - By Dealership Managers
- Features
 - Provide Evaluation Tool Based on Standards
 - Model Behavioral Competencies
 - For Use During Interviews
 - o Assess Candidate's Ability to Perform a Role
 - Track Historical Employee Performance
 - Correlate Behavioral Competencies with Actual Results
 - Display Metrics for Original Equipment Manufacturers (OEMs)
- Technologies
 - CSS, HTML, JavaScript
 - Apple iPad (iOS) Development
 - SQL Server 2012
 - Model-View-Controller Architecture
 - Responsive Design









Team Urban Science

Jenna Cyrocki, Brandon Sartele, Kenny Massie, Michael Nelson

Team Urban Science Project Plan Presentation

Screen Mockup

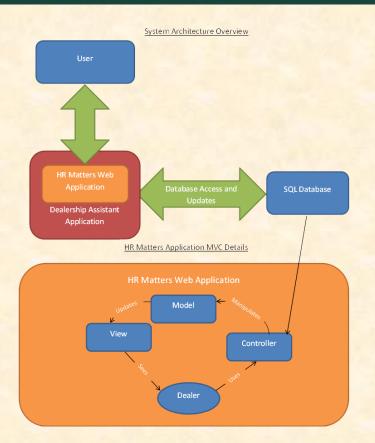




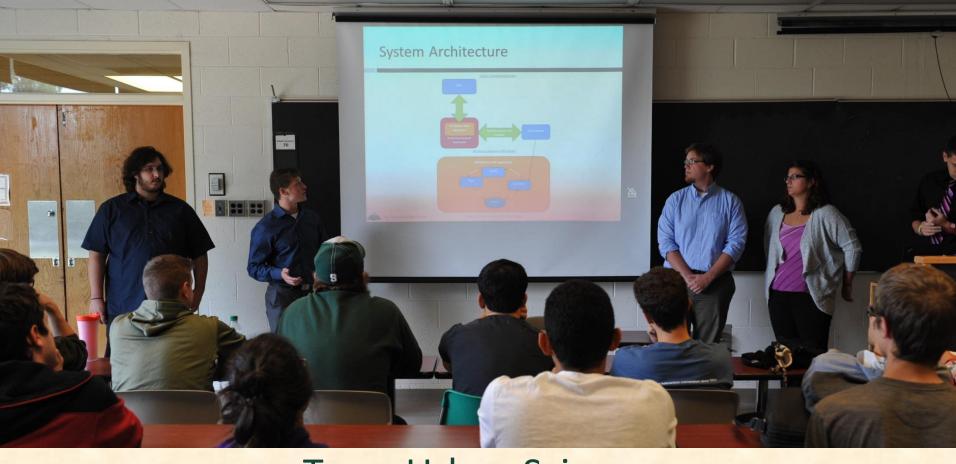


Team Urban Science Project Plan Presentation

Team Urban Science Project Plan Presentation Architecture Diagram



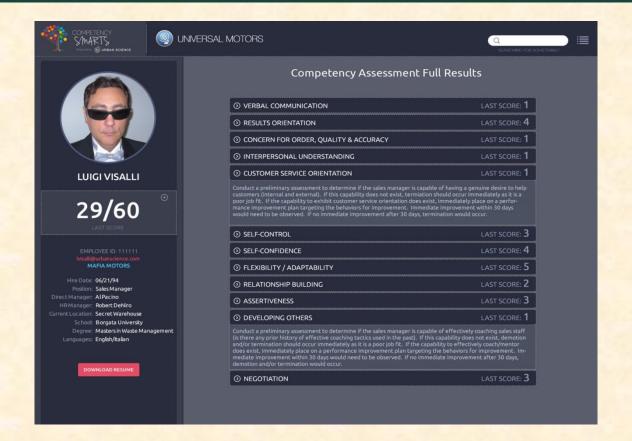




Team Urban Science Project Plan Presentation

Team Urban Science Project Plan Presentation

Screen Mockup



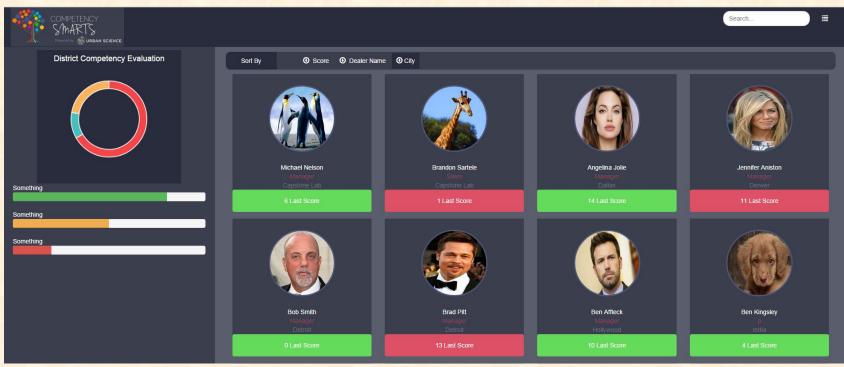




Team Urban Science Alpha Presentation

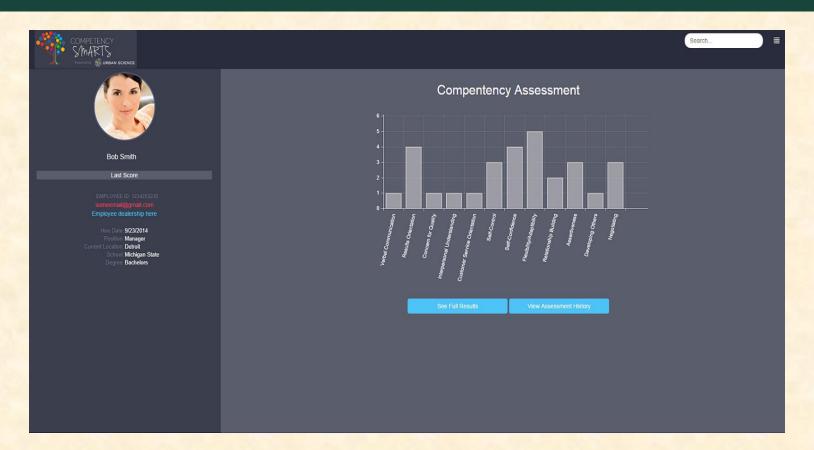
Team Urban Science Alpha Presentation

Dashboard





Team Urban Science Alpha Presentation Competency Assessment Chart





The Capstone Experience



Team Urban Science Alpha Presentation

Team Urban Science Alpha Presentation

Full Assessment Results







Team Urban Science Beta Presentation

Team Urban Science Beta Presentation

Assessment Chart





Team Urban Science Beta Presentation

Competency Chart







Team Urban Science Beta Presentation

Team Urban Science Beta Presentation

Assessment Full Results







Team Urban Science Design Day

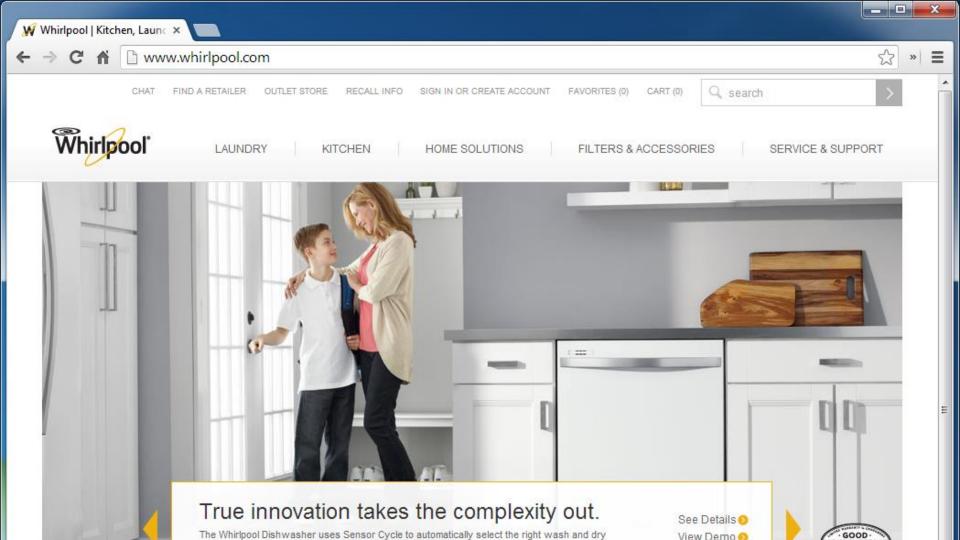




Team Whirlpool

Department of Computer Science and Engineering
Michigan State University
Fall 2014





Team Whirlpool Project Overview

Windows 8 Apps for Smart Appliances

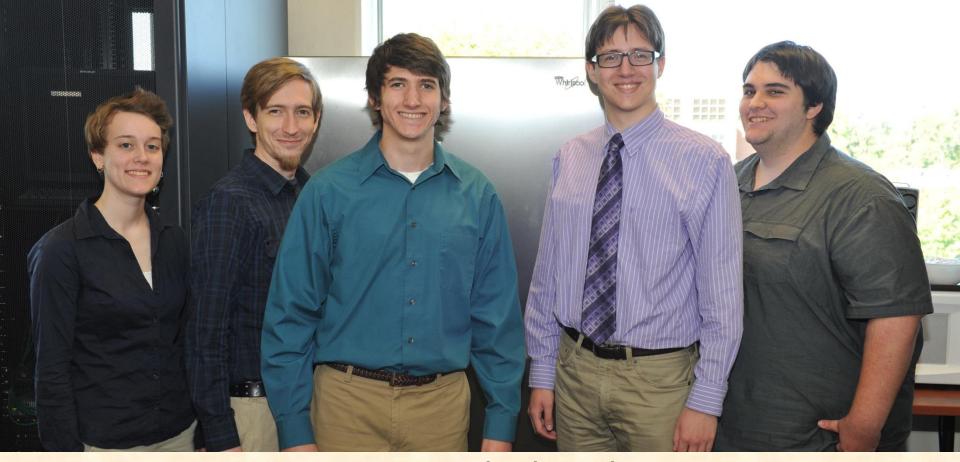
- Functionalities
 - Enable Whirlpool Customers to Manage Smart Appliances
 - Via My Smart Appliance App
 - For Windows 8 and Windows 8 Mobile
- Features
 - Support Windows 8 Family of Devices
 - Phones
 - Tablets
 - Laptops
 - Interface with Existing Whirlpool Cloud
 - Utilize Universal Windows Application Framework
 - Support Existing Features of iOS and Android Apps
- Technologies
 - Windows 8.1
 - Windows Phone 8.1
 - Visual Studio 2013
 - Whirlpool Smart Appliances
 - RESTful Web Service Layer





Benton Harbor, Michigan





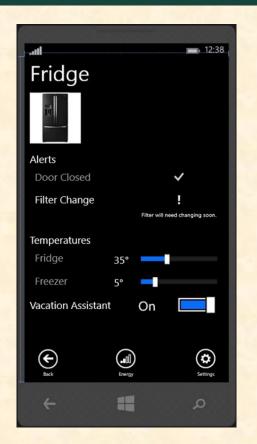
Team Whirlpool

Kathy Cummings, Chris Thomas, A. J. Sundheimer, Zachary Pauley, Robert Carpenter

Team Whirlpool Project Plan Presentation

Screen Mockups



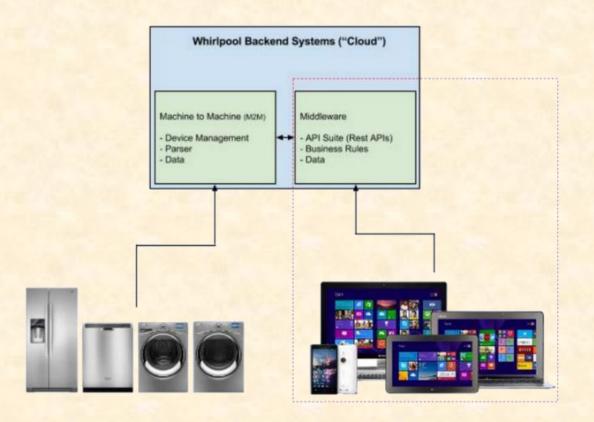






Team Whirlpool Project Plan Presentation

Team Whirlpool Project Plan Presentation Architecture Diagram





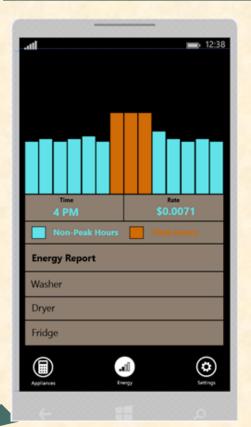
The Capstone Experience



Team Whirlpool Project Plan Presentation

Team Whirlpool Project Plan Presentation

Screen Mockups









Mobile Live Tiles

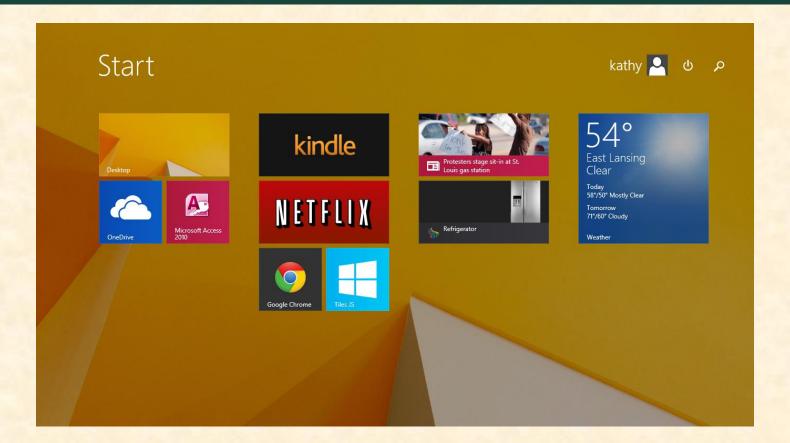








Desktop Live Tiles

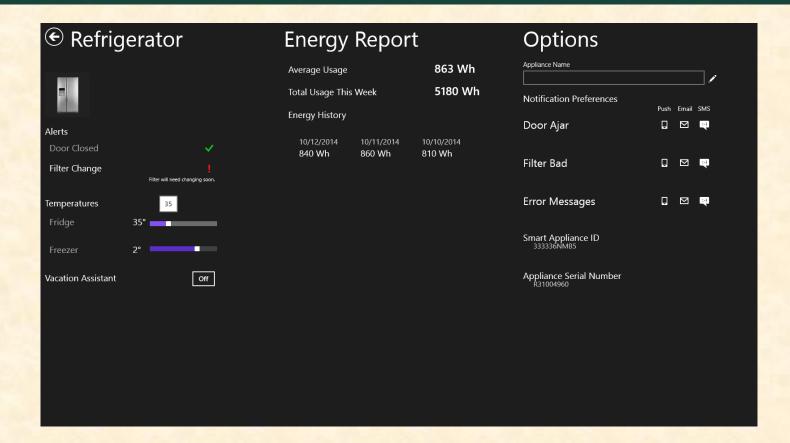




The Capstone Experience



Team Whirlpool Alpha Presentation Refrigerator, Energy and Options





The Capstone Experience



Team Whirlpool Beta Presentation

Team Whirlpool Beta Presentation

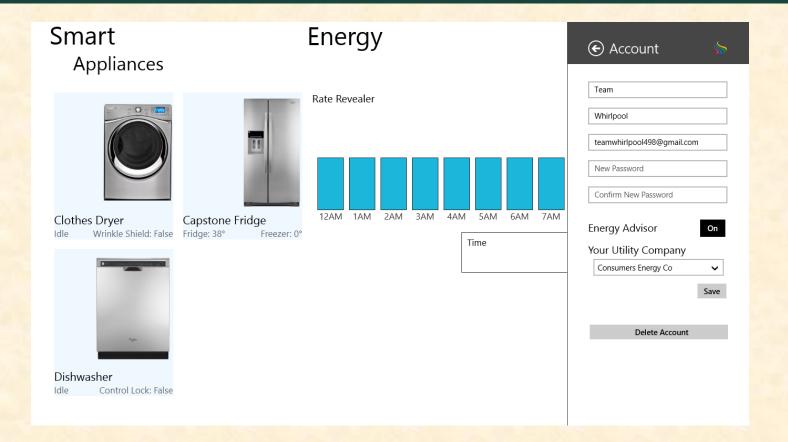
Account Appliances and Settings







Team Whirlpool Beta Presentation Account Appliances and Settings





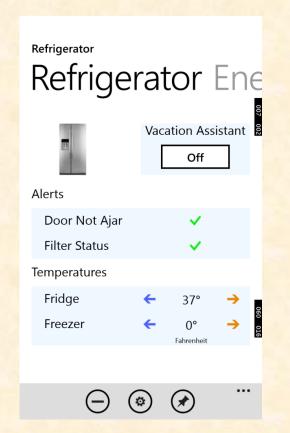
The Capstone Experience

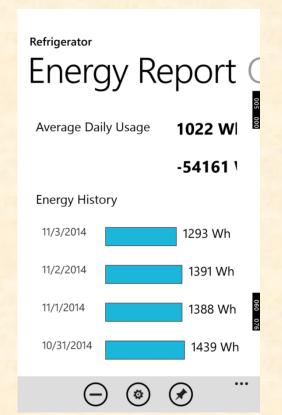


Team Whirlpool Beta Presentation

Team Whirlpool Beta Presentation

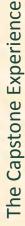
Refrigerator Specific Page













Team Whirlpool Design Day

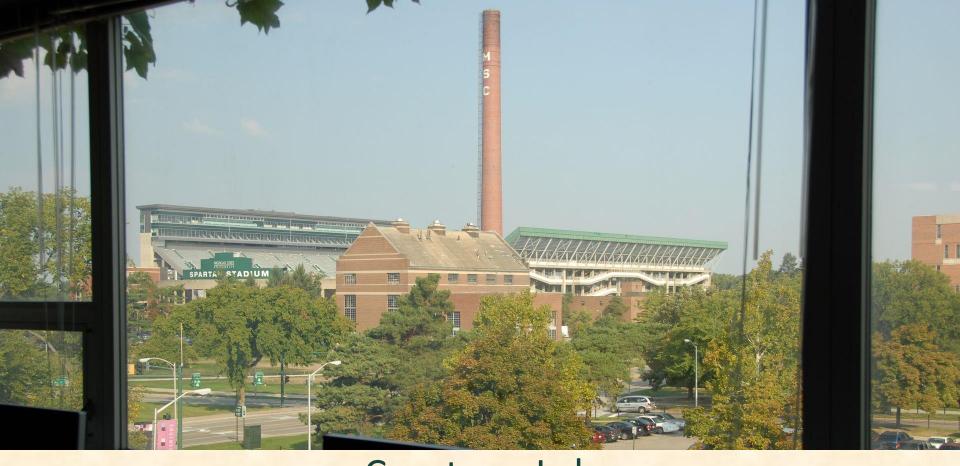


The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Fall 2014





Capstone Lab View of Spartan Stadium



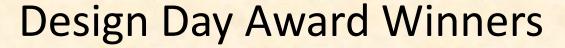
Capstone Lab View of Spartan Stadium sans Smokestack



Capstone Lab Winter View of Spartan Stadium



The Capstone Experience



December 5, 2014

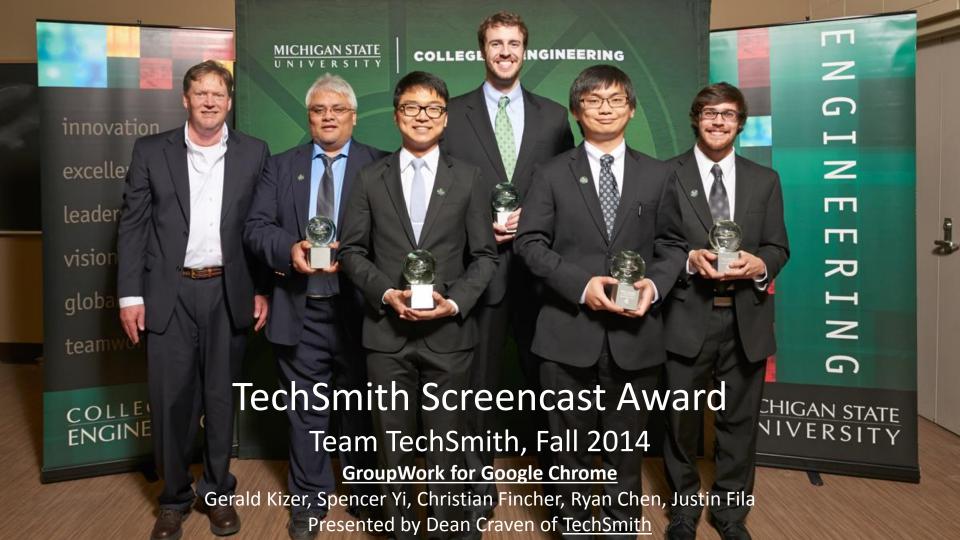




All-Hands Design Day, December 5, 2014











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