

MICHIGAN STATE

UNIVERSITY

The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Fall 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, 2400 Engineering Building
- Presentations By
 - Professor
 - Teams
 - Status Reports
 - Formal Presentations
 - Project Plan
 - Alpha
 - Beta
 - Project Videos
 - Guest Speakers



All-Hands Meetings

09/02: Capstone Overview
09/07: (Labor Day, No Meeting)
09/09: Project Plan
09/14: Risks and Prototypes
09/16: Team [Status Report Presentations](#)
09/21: Team [Project Plan Presentations](#)
09/23: Schedule and Teamwork
09/28: Team [Project Plan Presentations](#)
09/30: [Career Gallery](#)
10/05: Team [Project Plan Presentations](#)
10/07: Team [Project Plan Presentations](#)
10/12: Resume Writing and Interviewing
10/14: Creating and Giving Presentations
10/19: Team [Alpha Presentations](#)
10/21: Team [Alpha Presentations](#)
10/26: Team [Alpha Presentations](#)
10/28: Team [Alpha Presentations](#)

11/02: [Design Day](#) and the [Project Videos](#)
11/04: Camtasia Demo
11/09: Team Beta Presentations
11/11: Team Beta Presentations
11/16: Team Status Reports
11/18: Team Status Reports
11/23: Team [Beta Presentations](#)
11/25: Team [Beta Presentations](#)
11/30: Team [Beta Presentations](#)
12/02: Team [Beta Presentations](#)
12/07: [Project Videos](#)
12/09: [Project Videos](#) and [All Deliverables](#)
12/10: [Design Day Setup](#)
12/11: [Design Day](#)
12/17: [Project Videos](#)



MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Team Amazon

Department of Computer Science and Engineering
Michigan State University

Fall 2015



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

amazon





All [search bar] [search icon]



Back-to-School Savings
Sponsored by Lysol

Shop by Department

Your Amazon.com Today's Deals Gift Cards Sell Help

Hello. Sign in Your Account

Try Prime

Wish List



fireTV stick

Netflix, HBO GO, Amazon Instant Video,
and more—just plug and play

\$39

● ● ● ●

Movies Included with Prime Membership at No Additional Cost

[See more](#)

Unlimited instant streaming
of movies & TV shows

Team Amazon

Project Overview

Seller Forums Echo Companion

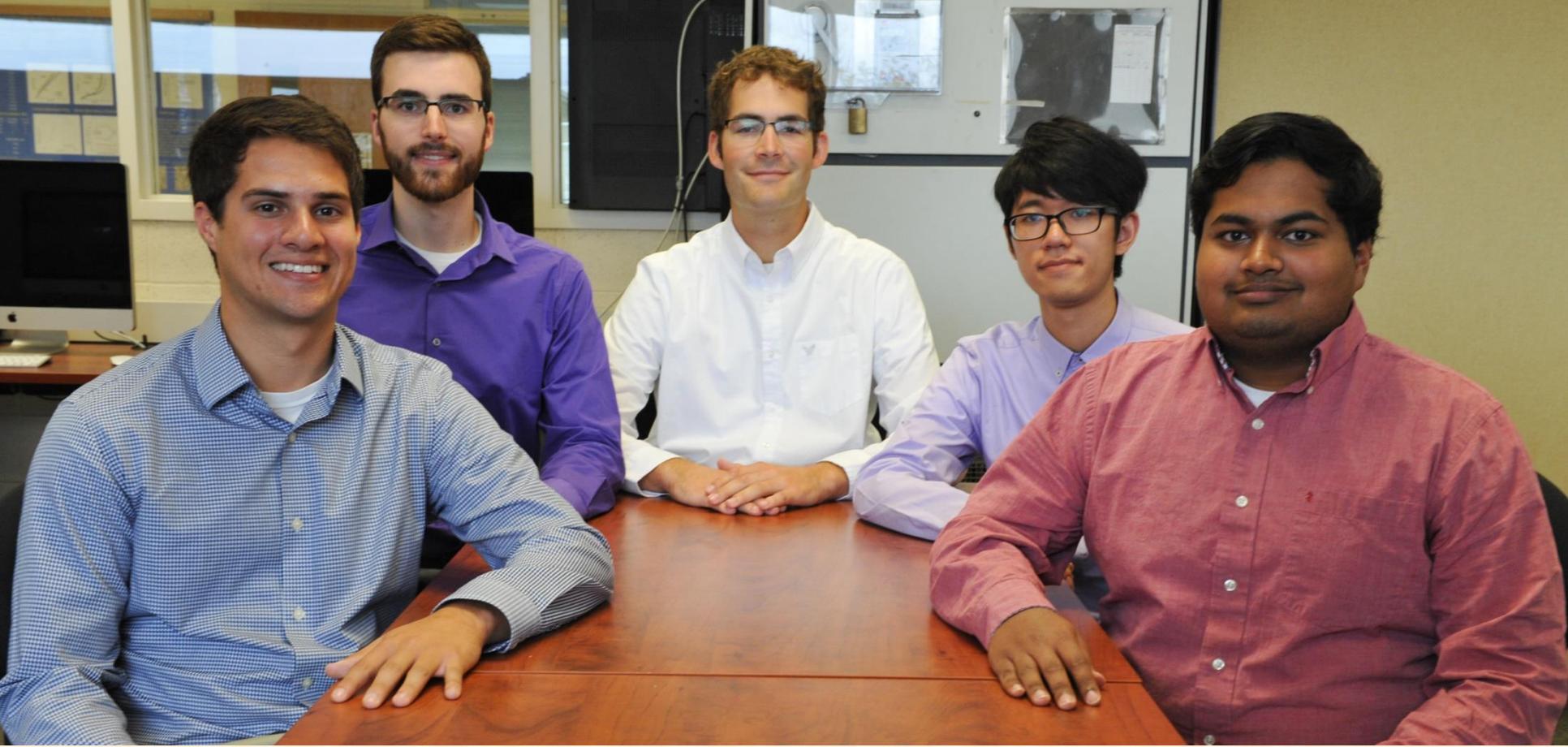
- Functionalities
 - Amazon Echo Companion
 - For Amazon Sellers
 - To Interact with Amazon Seller Forums
 - Hands-Free By Voice Using Alexa
- Features
 - Support Sellers' Hands-Free Ability To
 - Ask and Submit Questions
 - Submit Replies to Existing Threads
 - Have Threads Read by Alexa
 - Discover Intent by Creating Amazon Skill
 - Create Endpoint Web Service Using AWS Lambda
- Technologies
 - Amazon Web Services (AWS)
 - AWS Lambda
 - Amazon Echo and Alexa
 - Java



amazon

Seattle, Washington





Team Amazon

Marc Habermann, Patrick Williams, Jake Jensen, Archer Tang, Apoorv Singh

Team Amazon Project Plan Presentation

Screen Mockup

Replies: 9 - Pages: 1 - Last Post: 20 Sep, 2015 3:40 PM by: [redacted] Threads: [Previous | Next]

Posts: 4
Registered: 10 Mar, 15
3:06 AM

Posted on: 19 Sep, 2015 7:50 AM
bad , rating , low , help , feedback , selling , amazon , buyer

I am a new seller and lately it seems like I am more likely to get negative feedback than positive. I sell largely on FBA so I don't have the opportunity to leave a note in the package with each order. I have read that sending emails for feedback can be bad. I am frustrated that a lot of the negative feedback I have received is out of my control. I only have 35 feedback and 5 are negative. One was because a video game I sold (brand new) would not download the songs to his xbox. This is not a review of my business but of the game. I also had a woman leave 1 star because a tablet only worked on one half. I bought the tablet brand new from a retail store so this is a manufacture error. My feedback rating is at 86% and I worry about it getting too low. I sell between 8-15 items a day and receive about 1 feedback a week. PLEASE HELP!!

Is this a helpful question? Yes 0 No

9 Replies

Sort replies by: Earliest reply first

Posts: 6,591
Registered: 06 Oct, 13
5:46 AM

Posted on: 19 Sep, 2015 7:52 AM in response to: [redacted]

Since you are selling through fba you can usually get Amazon to strike it.
You can also request feedback removal of its a product review.

Was this reply helpful? Yes 2 No 0

Available Actions

- Reply to this Thread
- Search Forum
- Ask a question
- Back to Thread List

Icon Legend

- Answered question
- Unanswered question with answer points still available
- Unanswered question

Seller Forums Status Icons

- Master: 25000+ pts
- Veteran : 5000-24999 pts
- Enthusiast : 500-4999 pts
- Novice: 50-499 pts
- Amazonian

1

2

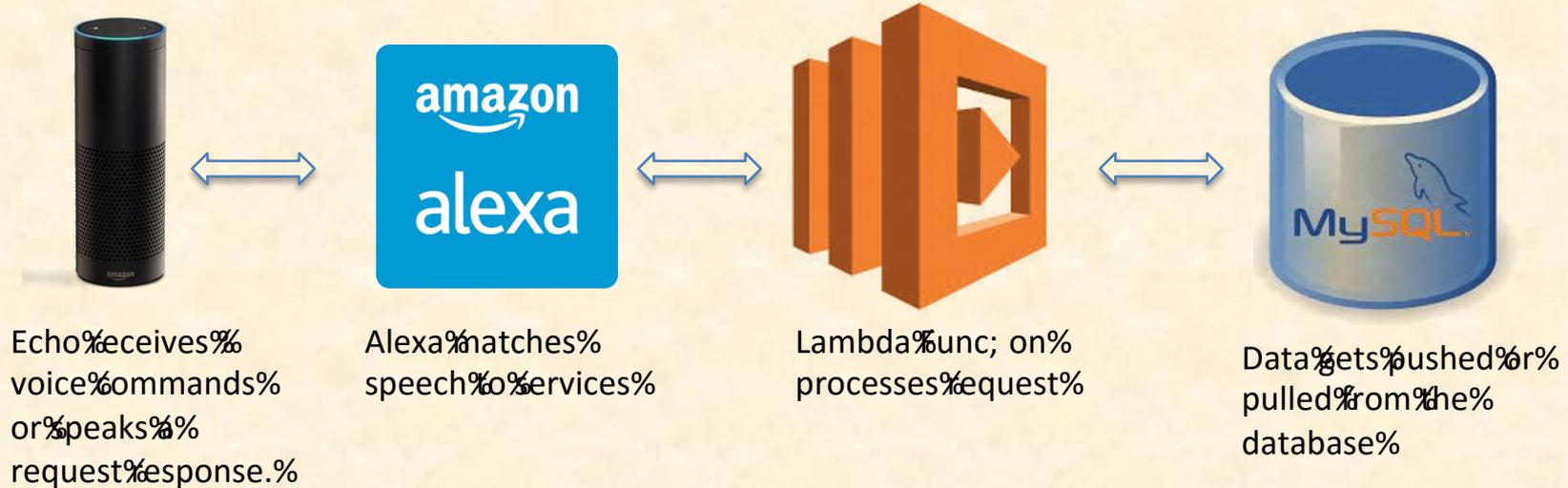
3



Team Amazon Project Plan Presentation

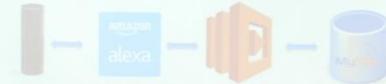
Team Amazon Project Plan Presentation

Architecture Diagram





System Architecture



User receives voice commands or sends a request response.

Alexa matches speech to services.

Lambda function processes request.

Data gets pushed or pulled from the database.

Team Amazon
Project Plan Presentation

Team Amazon Project Plan Presentation

Screen Mockup

amazon services
seller forums

United States
Seller Central

Welcome, Guest | Login | Guest Settings | Forums Guidelines | Forums Help

Seller Forums

Discuss selling on Amazon and other Amazon services with fellow sellers.

Search all seller forums **2**

ex: Shipping fees

Advanced search

Get help from other sellers

1

Selling on Amazon

General Selling Questions
Find answers to your questions about Selling on Amazon and receive responses from Amazon and fellow sellers. For account-specific questions, or if you do not receive an answer, contact Seller Support.

Help For New Sellers
New to selling on Amazon? Post your questions here for help from veteran sellers. Be sure to review our New Seller FAQ.

Listing Management & Reports
Use this forum to discuss best practices for listing products on Amazon and managing inventory.

[View all Selling on Amazon forums >](#)

Other Amazon Services

Amazon Payments
Making it easy for Amazon customers to shop on your website.

Amazon Product Ads
Advertising your products on Amazon detail pages.

Amazon Marketplace Web Service (MWS)
Building and integrating services using Amazon Marketplace Web Service APIs.

Amazon Webstore
Running your own eCommerce site using Amazon technologies.

Amazon Sponsored Products
Promote the products you sell on Amazon with keyword-targeted ads.

[View entire list of seller forums >](#)

Fulfillment By Amazon

General FBA Questions
You sell it, we ship it. Questions on using Amazon's fulfillment service.

Shipping Inventory to Amazon
Questions on shipment creation, product packaging, product restrictions, and shipping best practices.

FBA Orders and Customer Service
Questions on returns, refunds, feedback, and other policies related to FBA orders.

[View all Fulfillment By Amazon forums >](#)

Announcements

Important Alert
20 Sep, 2015 9:01 AM

Recently answered questions

How to cancel a multi-channel fulfillment order?
In Fulfillment By Amazon

New Seller has question about feedback and refund attitude.
In Selling on Amazon

Anything to be done about pointless negative reviews?
In Selling on Amazon

Open questions

Yes i am new asking for help please.
In Selling on Amazon

Listing limit
In Groups

Sale Issue and Now Problem with Return HELP PLEASE!
In Selling on Amazon

Contact Seller Support

©2014, Amazon.com, Inc. or its affiliates



Reading A Question

Alexa, read the most recent post.

- The user "" said "". What else can I do?
- Alexa, mark that post as helpful.
- I have marked that post as helpful. What do you think?
- I would like to reply to the post.

Team Amazon
Alpha Presentation

Team Amazon Alpha Presentation

Reading a Post

Alexa, read the most recent post.

- What else can I do for you today?
- *Alexa, mark that post as helpful.*
- I have marked that post as helpful.
What else can I do for you today?
- *I would like to reply to the post...*



Team Amazon Alpha Presentation

Posting A Question

Alexa, make a new post.

- Alexa prompts the user for each field.
- *Alexa, <fill desired fields>.*
- You have finished building a post, you can now review your post.
- *Alexa, review my post.*
- Alexa reads back post.
- *Alexa, post it.*





Team Amazon Alpha Presentation

Team Amazon Alpha Presentation

Getting Notifications

Alexa, what are my notifications?

- Alexa checks when you last accessed the Seller Forums.
- Alexa then gathers your notifications such as:
 - Markings on your questions
 - New replies to your question





Team Amazon Beta Presentation

Team Amazon Beta Presentation

Reading a Question

Alexa, read the most recent post.

- The user "" said "". What else can I do for you today?
- *Alexa, mark that post as helpful.*
- I have marked that post as helpful. What else can I do for you today?
- *I would like to reply to the post...*



Alexa, make a new post.

- Alexa prompts the user for each field.
- *Alexa, <fill desired fields>.*
- You have finished building a post, you can now review your post.
- *Alexa, review my post.*
- Alexa reads back post.
- *Alexa, post it.*





Team Amazon Beta Presentation

Alexa, what are my notifications.

- Alexa checks when you last accessed the Seller Forums.
- Alexa then gathers your notifications such as:
 - Markings on your questions
 - New replies to your question





Team Amazon
Design Day

MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Team Auto-Owners

Department of Computer Science and Engineering
Michigan State University

Fall 2015



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



Auto-Owners Insurance

Life Home Car Business

The "No Problem" People[®]

Auto-Owners Insurance

OUR PRODUCTS

CORPORATE INFORMATION

CUSTOMER CLAIMS

Find

[Customer Center](#) | [Find a Career with Us](#)

▼ Find a Local Agency

Find

or Search by Address



Quality Coverage in 26 States

▶ Customer Log In

SCOTT
MOTORSPORTS

OFFICIAL SPONSOR

**Life Insurance**
Protecting your family**Home Insurance**
Property and liability**Car Insurance**
Security while on the road**Business Insurance**
Guarding your investment

Team Auto-Owners Project Overview

HR Recruiting System

- Functionalities
 - Simplify Job Application Process
 - For Both Applicants and Auto-Owners
 - Using Mobile, Tablet and Web Apps
- Features
 - Support Multiple Input Methods
 - Text
 - LinkedIn
 - Resumes
 - Speech
 - Manage Entire Application Workflow Process
 - From Assignment of Recruiter
 - To Sending of Offer or Decline Letter
 - Handle Referrals by Existing Auto-Owners Associates
 - Use Google Analytics
- Technologies
 - Google Android Tablets and Phones / Java
 - Apple iPads and iPhones (iOS) / Swift or Objective-C
 - Web App Development
 - Database Technologies



Lansing, Michigan



Team Auto-Owners

Abigael Onchiri, Gauthier Devolder, Jun Gao, Ashwin Jayakumar

Team Auto-Owners Project Plan Presentation

Screen Mockup

Auto-Owners Candidates Events Universities To-do List Admin Logout ▾

Events

Michigan State Career Fair
September 30th, 2015
East Lansing, MI

Ohio State Career Fair
October 23rd, 2015
Columbus, Ohio

IT/Actuarial Day
October 16th, 2015
East Lansing, MI

Admin Tool

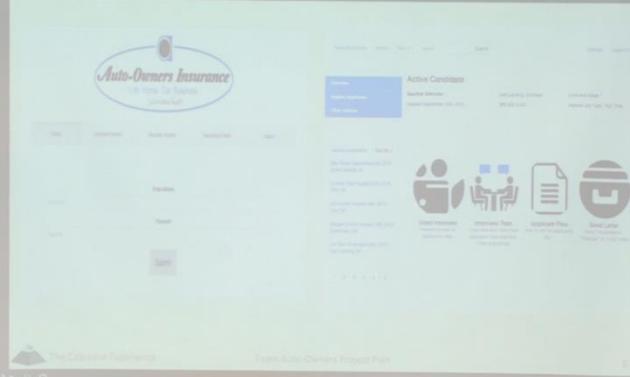
Michigan State Career Fair

WHEN
September 30th, 2015 2-6pm

WHERE
534 Birch Rd, East Lansing, MI 48823



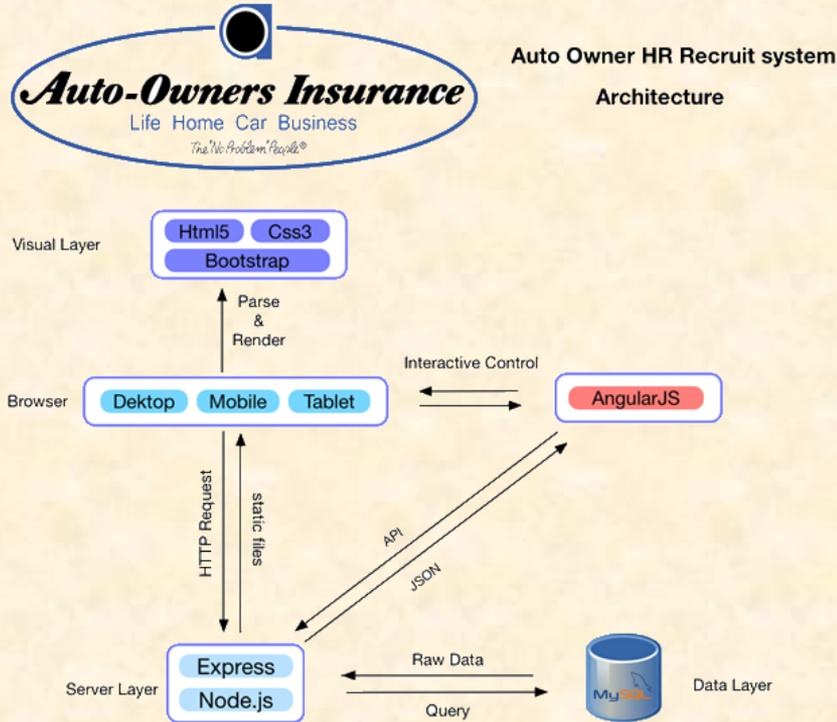
Screen Mockup: Recruiter System - Login Page/ Recruiter Actions Page



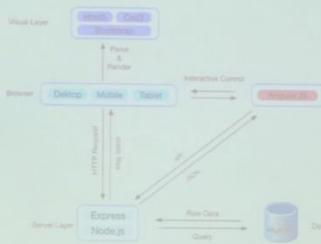
Team Auto-Owners
Project Plan Presentation

Team Auto-Owners Project Plan Presentation

Architecture Diagram



System Architecture



The Capstone Experience Team Auto-Owners Project Plan

Slide 10

Google

Team Auto-Owners Project Plan Presentation

Team Auto-Owners Project Plan Presentation

Screen Mockup

The screenshot shows a web application interface with a navigation bar at the top containing 'Auto-Owners', 'Candidates', 'Events', 'Universities', 'To-do List', and 'Admin'. There is a search bar with a 'Submit' button and a 'Logout' dropdown. The main content area is divided into a left sidebar and a main panel. The sidebar includes a 'Universities' section with a 'Sort By' dropdown and a list of university names: Michigan State University, Ohio State University, and University of Michigan. Below this is a pagination control with buttons for 1, 2, 3, 4, and 5. The 'Recent Candidates' section lists two entries: Gauthier Devolder (September 15th, 2015) and John Snow (September 14th, 2015). The main panel displays the title 'Michigan State University' and a tabbed interface with 'Information', 'Attendees', 'Notes', and 'Total Costs'. The 'Attendees' tab is active, showing a table with columns for '#', 'First Name', 'Last Name', 'Major', and 'Status'. The table contains three rows of data.

#	First Name	Last Name	Major	Status
1	Mark	Otto	Computer Science Engineering	Active
2	Jacob	Thornton	Business	Hired
3	Larry	Green	Accounting	Declined





Team Auto-Owners Alpha Presentation

Team Auto-Owners Alpha Presentation

Candidates Page

Auto-Owners

Gauthier Devolder

Search...

MAIN NAVIGATION

- Dashboard
- Candidates
- Actions
- Events
- Calendar
- Documentation

LABELS

- Important
- Warning
- Information

Candidates

Home > Candidates

132
Number of active applicants
More info

44
Applications received this month
More info

65
Unique visitors this month
More info

67%
Monthly Drop-off Rate
More info

Applicants

Show 10 entries Search:

Name	University	Area of Interest	Type of Employment	Date Applied	Status
Bob Evans	Michigan State University	Database Engineer	Full-time	2015-07-25	Interview scheduled
Ed Cone	Michigan State University	Accountant	Intern	2015-08-15	Received application
Ian Huss	University of Michigan	Call Center Consultant	Full-time	2015-08-26	Under Review
Matt Camilletti	Michigan State University	IT Technician	Part-time	2015-08-06	Offer sent, pending response
Michael Taylor	Michigan State University	Clerk	Full-time	2015-08-25	Received application
Sarah Jones	Ohio State University	Business Analyst	Intern	2015-07-28	Under review
Stephen Murray	Delta College	IT Technician	Part-time	2015-08-13	Offer sent, pending response

Name University Area of Interest Type of Employment Date Applied Status

Showing 1 to 7 of 7 entries

Previous 1 Next

Team Auto-Owners Alpha Presentation

Actions Page

Auto-Owners | Gauthier Devolder

Home > Active Candidate

About Abigael Onchiri

New Submissions

- Submitted Videos (1)
- Emails (1)

Previous Work Experience

- General Electric : Product Manager Intern
- Apple : iOS development Intern
- Michigan State University : IT services Intern

Education

B.S. in Computer Science from Michigan State University

GPA : 3.5
Years Completed: Four

Skills

UI Design Coding Java

Additional Notes

Referenced by : Scott Lake

Interview Stage : 1

[Request Video](#) [Request Interview](#)

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Auto-Owners | Gauthier Devolder

Home > Active Candidate

About Abigael Onchiri

New Submissions

- Submitted Videos (1)
- Emails (1)

Previous Work Experience

- General Electric : Product Manager Intern
- Apple : iOS development Intern
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Education

B.S. in Computer Science from Michigan State University

GPA : 3.5
Years Completed: Four

Skills

UI Design Coding JavaScript PHP Node.js

[Request Video](#) [Request Interview](#) [Send Letter](#) [View Applicant's File](#)

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Team Auto-Owners
Alpha Presentation

Team Auto-Owners Alpha Presentation

Application Form

Auto-Owner Insurance [Home](#) [About](#) [Contact](#)

Resume
Upload your resume in English(2 MB max)
[Choose File](#) no file selected
[Upload Resume](#)

[in Sign in with LinkedIn](#)

Contact Details
First Name

Last Name

Phone Number

E-mail

Address
Current Address*

City*

Auto-Owner Insurance [Home](#) [About](#) [Contact](#)

Resume
Upload your resume in English(2 MB max)
[Choose File](#) no file selected
[Upload Resume](#)

[in Sign in with LinkedIn](#)

Contact Details
First Name

Last Name

Phone Number

E-mail

Address
Current Address*

City*

Auto-Owner Insurance [Home](#) [About](#) [Contact](#)

Resume
Upload your resume in English(2 MB max)
[Choose File](#) no file selected
[Upload Resume](#)

[in Sign in with LinkedIn](#)

Contact Details
First Name

Last Name

Phone Number

E-mail

Address
Current Address*

City*





Team Auto-Owners Beta Presentation

Team Auto-Owners Beta Presentation

Candidates Page

Auto-Owners ☰ 10 9 Gauthier Devolder ⚙️

Candidates Home > Candidates

132
Number of active applicants
[More info](#)

44
Applications received this month
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67%
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Stephen Murray	Delta College	IT Technician	Part-time	2015-08-13	Offer sent, pending response

Name **University** **Area of Interest** **Type of Employment** **Date Applied** **Status**

Showing 1 to 7 of 7 entries Previous 1 Next



Team Auto-Owners Beta Presentation

Actions Page

Auto-Owners

Gauthier Devolder

About Abigail Onchiri

Home - Active Candidate

New Submissions

- Submitted Videos (1)
- Emails (3)

Previous Work Experience

- General Electric : Product Manager Intern
- Apple : iOS development Intern
- Michigan State University : IT services Intern

Education

B.S. in Computer Science from Michigan State University

GPA : 3.5

Years Completed: Four

Location

2900 Northwind Dr, East Lansing, Michigan 48823

Email Address

onchiraa@gmail.com

Phone Number

517-348-4116

Skills

- UI Design
- Coding
- Javascript
- PHP
- Node.js

Additional Notes

Referenced by : Scott Lake

Interview Stage : 1

[Request Video](#) [Request Interview](#) [Send Letter](#) [View](#)

Auto-Owners

Gauthier Devolder

About Abigail Onchiri

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Team Auto-Owners
Beta Presentation

Team Auto-Owners Beta Presentation

Events Page

Auto-Owners

Gauthier Devolder

Search...

MAIN NAVIGATION

- Dashboard
- Candidates
- Actions
- Events
- Calendar 3
- Documentation

LABELS

- Important
- Warning
- Information

Recruiting Events

Home > Recruiting Events

Current Events

- Michigan State Career Fair, September 30th, 2015, East Lansing, MI
- Ohio State Career Fair October 23rd, 2015 Columbus, Ohio
- Central Michigan University Career Fair, October 8th, 2015, East Lansing, MI
- IT/Actuarial Day October 16th, 2015 Columbus, Ohio

Michigan State Career Fair

September 30th, 2015, East Lansing, MI

EVENT COST

\$1,200

Hired 3 full time hires and 4 interns

Applicants that attended Event

- Abigael Onchiri - Full Time
- Miriam Waithera - Intern
- Jun Gao - Full Time
- Ashwin Jayakum - Intern
- Brown Bene - Full Time

Create New Event

Name

Location

Date

Cost

Submit

Delete Event

Search Event

Delete



Team Auto-Owners
Design Day

MICHIGAN STATE

UNIVERSITY

The Capstone Experience

Team Ford

Department of Computer Science and Engineering
Michigan State University
Fall 2015



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





Utility is their middle name.

EXPLORE CROSSOVERS & SUVs



Team Ford Project Overview

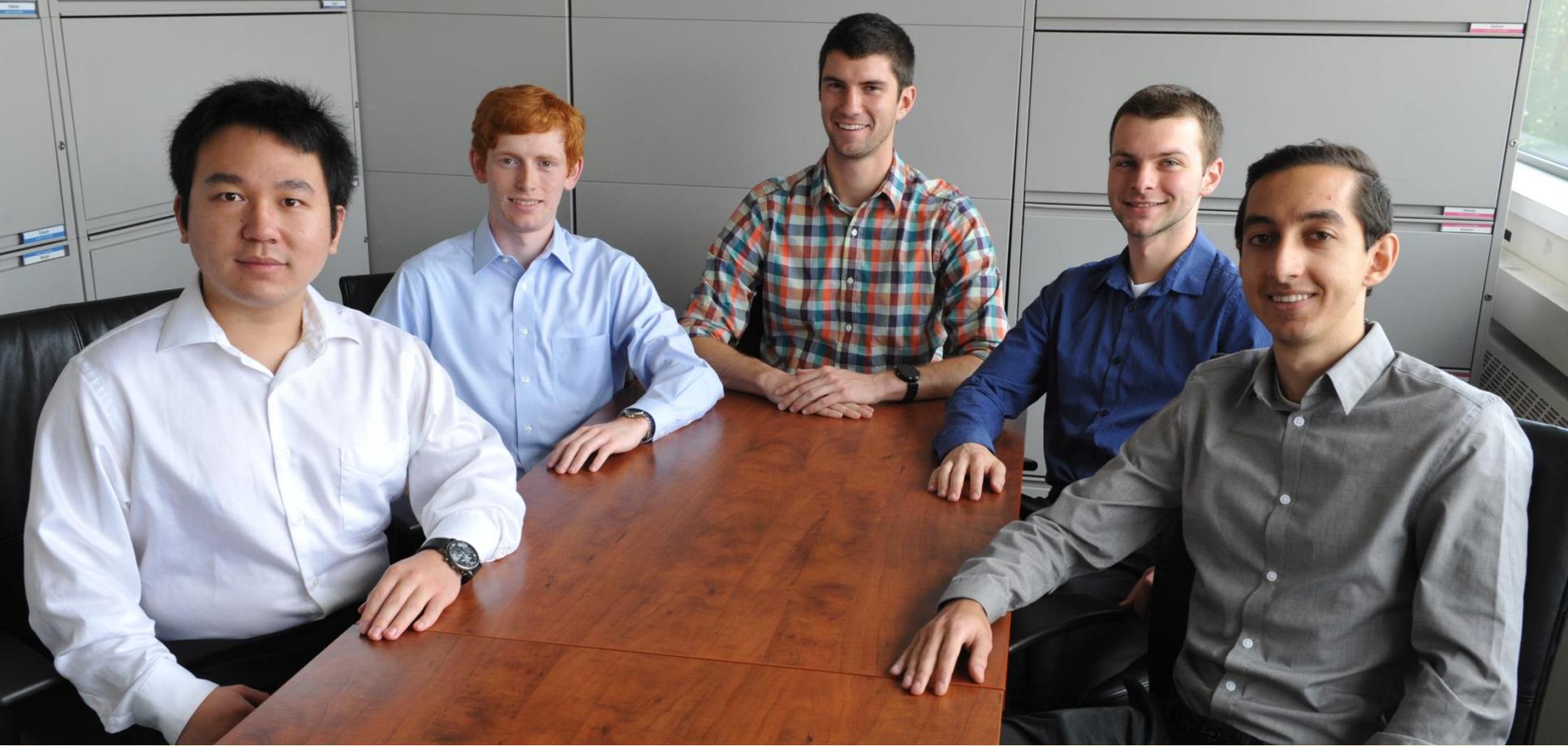
Connected Vehicle Protocol Test Harness

- Functionalities
 - Evaluate Connected Vehicle Communication Protocols
 - For Suitability for Enhanced Customer Experiences
 - Faster Cellular Networks
 - Greater Customer Expectations
 - Using Software Test Harness
- Features
 - Execute Various Communication Protocols
 - Repeatable Consistently
 - Measurable
 - Store and Visualize Metrics Securely
 - Support Range of File Sizes From 10MB to 10GB
 - Interface with Various Ford Connected Vehicle Hardware
 - Provide Strengths and Weaknesses of Each Protocol
- Technologies
 - RESTful Web Services
 - Cloud Services (Microsoft Azure)
 - MQTT
 - JSON
 - XML
 - AMQP



Dearborn, Michigan





Team Ford

Weilong Li, Eric Coldwell, Ryan Bruns, Alex Bergman, Usman Majeed

Team Ford Project Plan Presentation

Screen Mockup

REST AMQP MQTT M2M

Simulation Effects ▼ Chunk Size ▼

File Size ▼

Simulate

Simulation Results

- Protocol - REST
- Packets Sent – XXX
- Packets Recvd – XXX
- Loss Ratio - XXX
- Packets Resent – XXX
- Simulation Effects – Connectivity
- Total Time – mm:ss

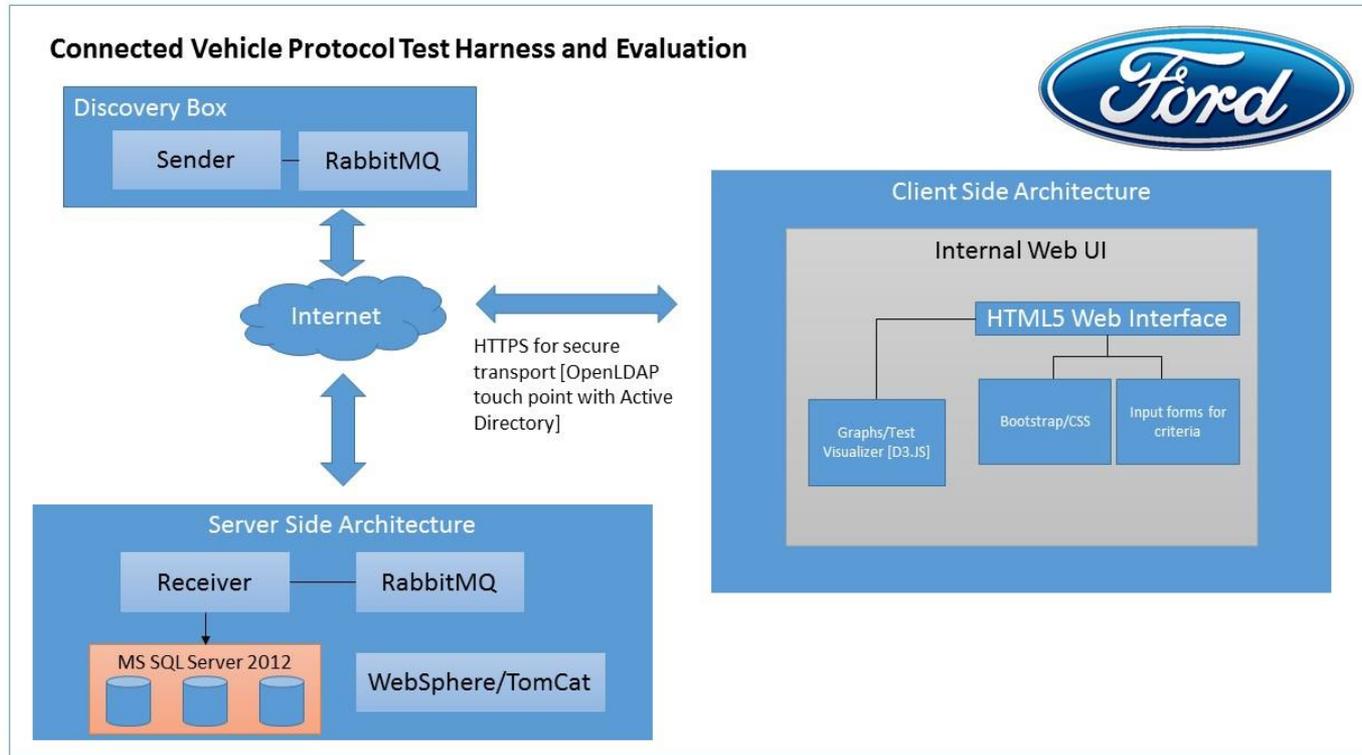




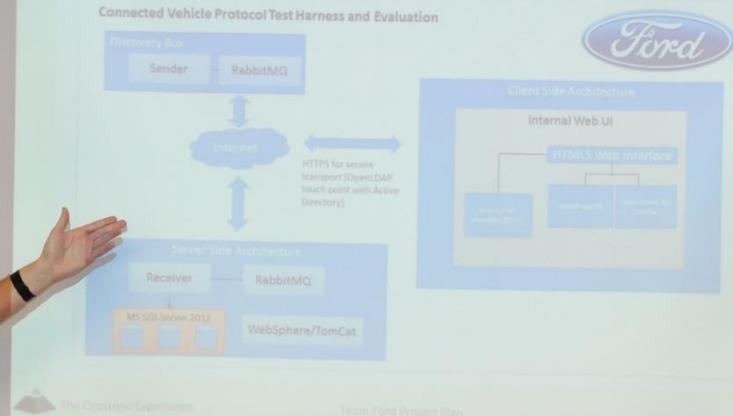
Team Ford Project Plan Presentation

Team Ford Project Plan Presentation

Architecture Diagram



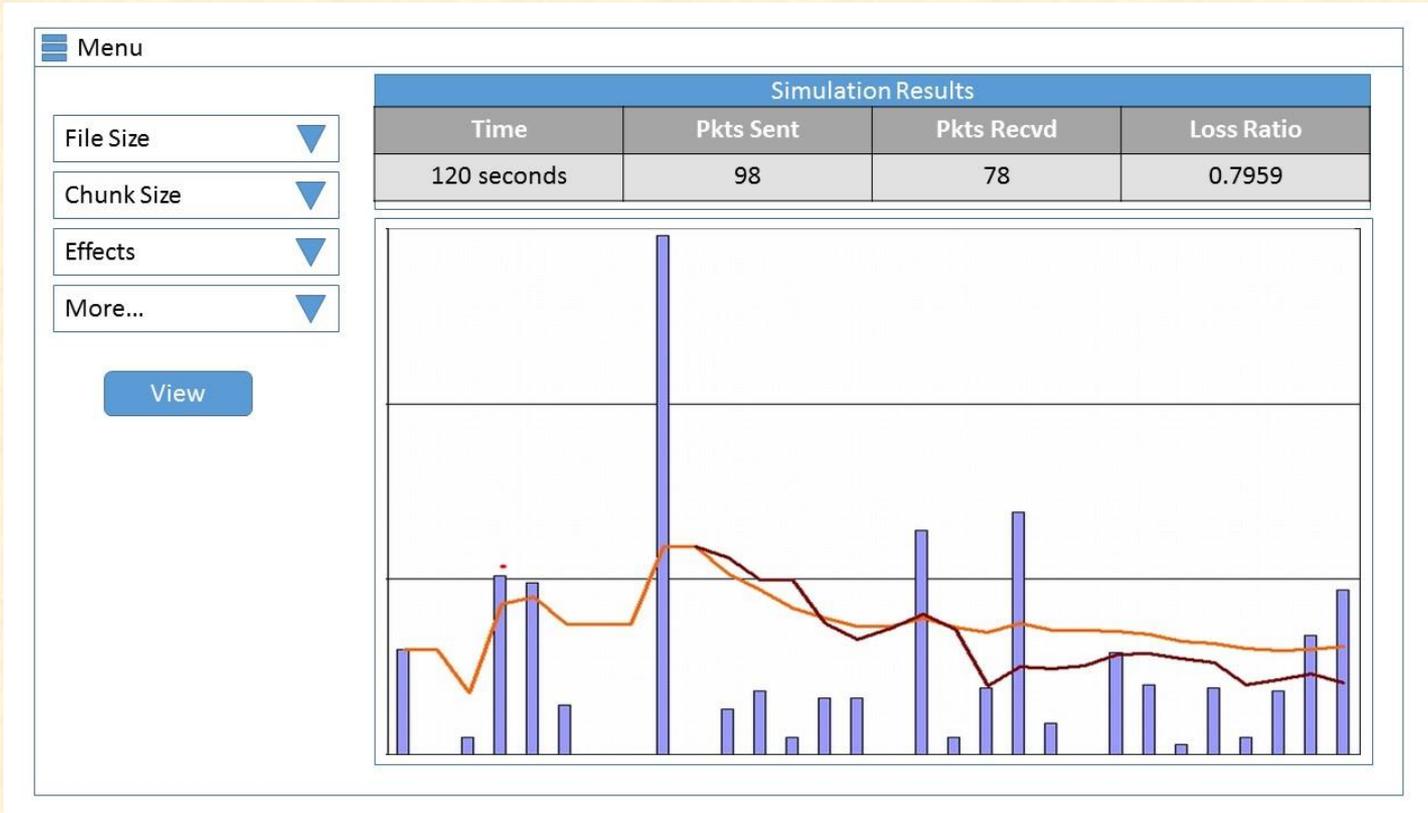
System Architecture



Team Ford
Project Plan Presentation

Team Ford Project Plan Presentation

Screen Mockup

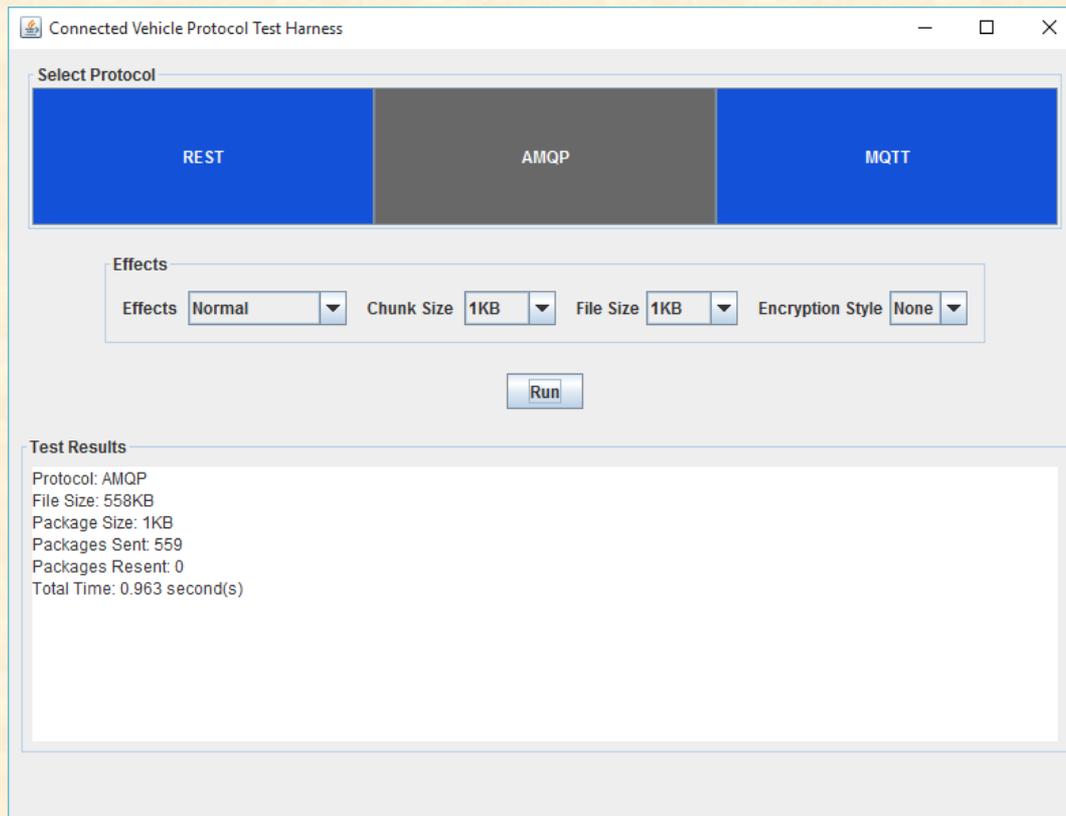




Team Ford
Alpha Presentation

Team Ford Alpha Presentation

Discovery Box GUI



Team Ford Alpha Presentation

Web Dashboard Table View

Team Ford Admin

Search...

Dashboard

Charts

Tables

Pages

Test Results

Tables

Show 10 entries Search:

Trial	Protocol	Packets Sent	Packets Received	Packets Resent	Loss Ratio (%)	Time (ms)
1	MQTT	6	4	X	0.33	100
2	MQTT	5	4	X	0.20	95
3	AMQP	25	24	X	0.04	300
4	MQTT	6	4	X	0.33	100
5	MQTT	32	30	2	0.00	350
6	REST	35	34	1	0.00	380
7	AMQP	12	12	X	0.00	125
8	MQTT	75	70	3	0.03	700
9	REST	15	15	X	0.00	300
10	AMQP	6	6	X	0.00	100

Showing 1 to 10 of 10 entries

Previous 1 Next

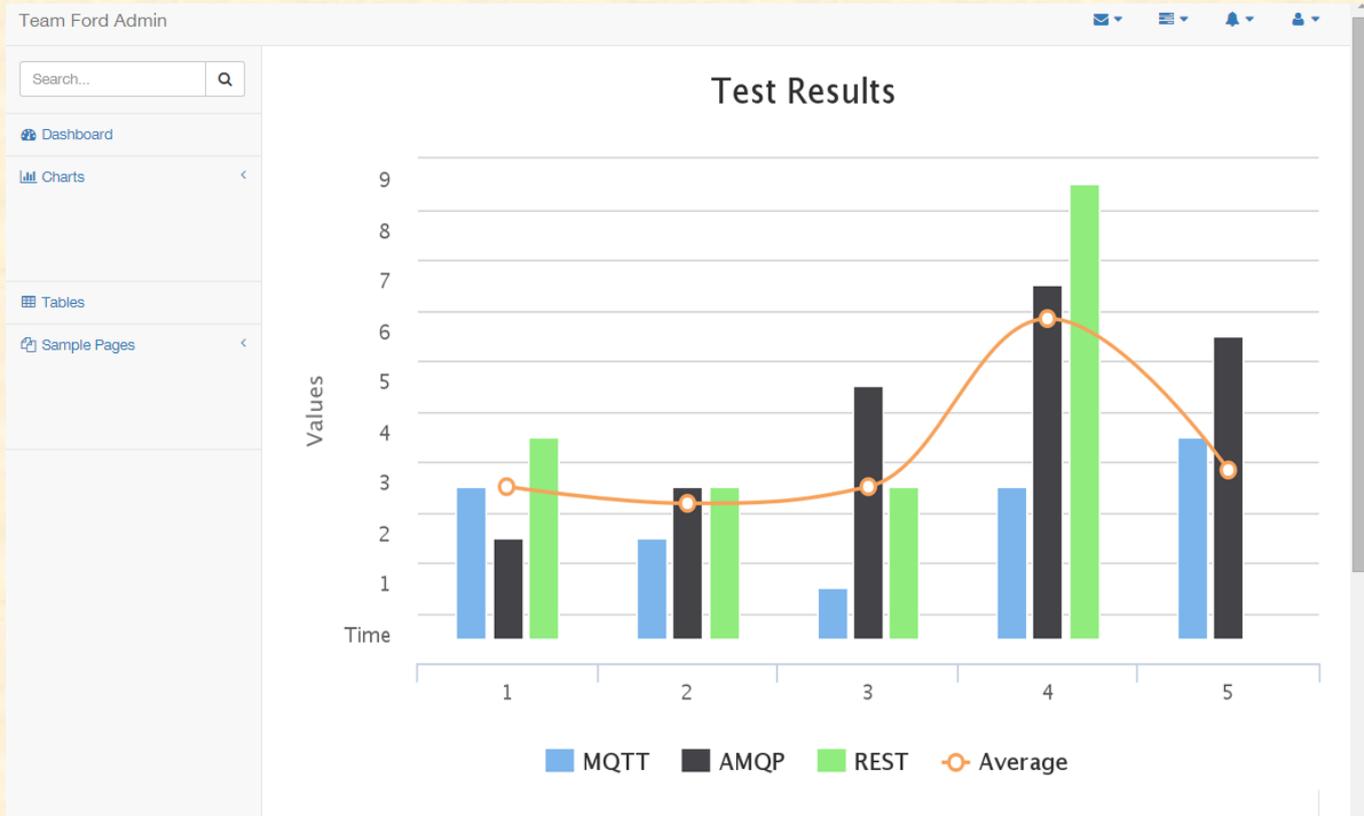


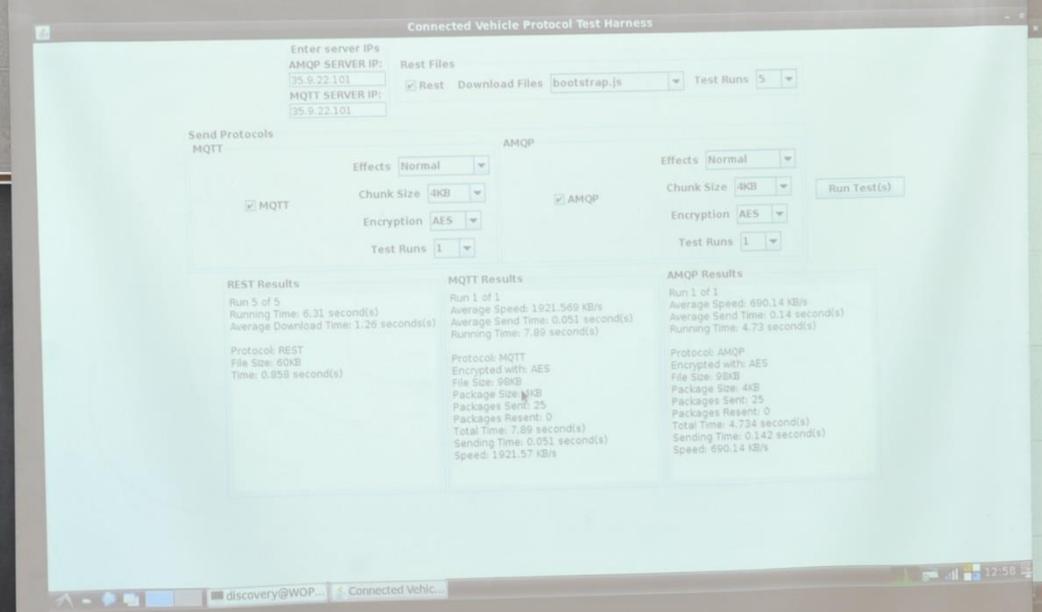


Team Ford
Alpha Presentation

Team Ford Alpha Presentation

Web Dashboard Visualization





Team Ford Beta Presentation

Team Ford Beta Presentation

Discovery Box GUI

Connected Vehicle Protocol Test Harness

Enter server IPs
AMQP SERVER IP:
35.9.22.101
MQTT SERVER IP:
35.9.22.101

Rest Files
 Rest Download Files batmeter.dll Test Runs 50

Send Protocols

MQTT
 MQTT Effects Normal Chunk Size 16KB Encryption AES Test Runs 5

AMQP
 AMQP Effects Normal Chunk Size 16KB Encryption None Test Runs 5

Run Test(s)

REST Results
Run 20 of 50
Running Time: 754.26 second(s)
Average Download Time: 37.71 seconds(s)
Protocol: REST
File Size: 2010KB
Time: 37.158 second(s)

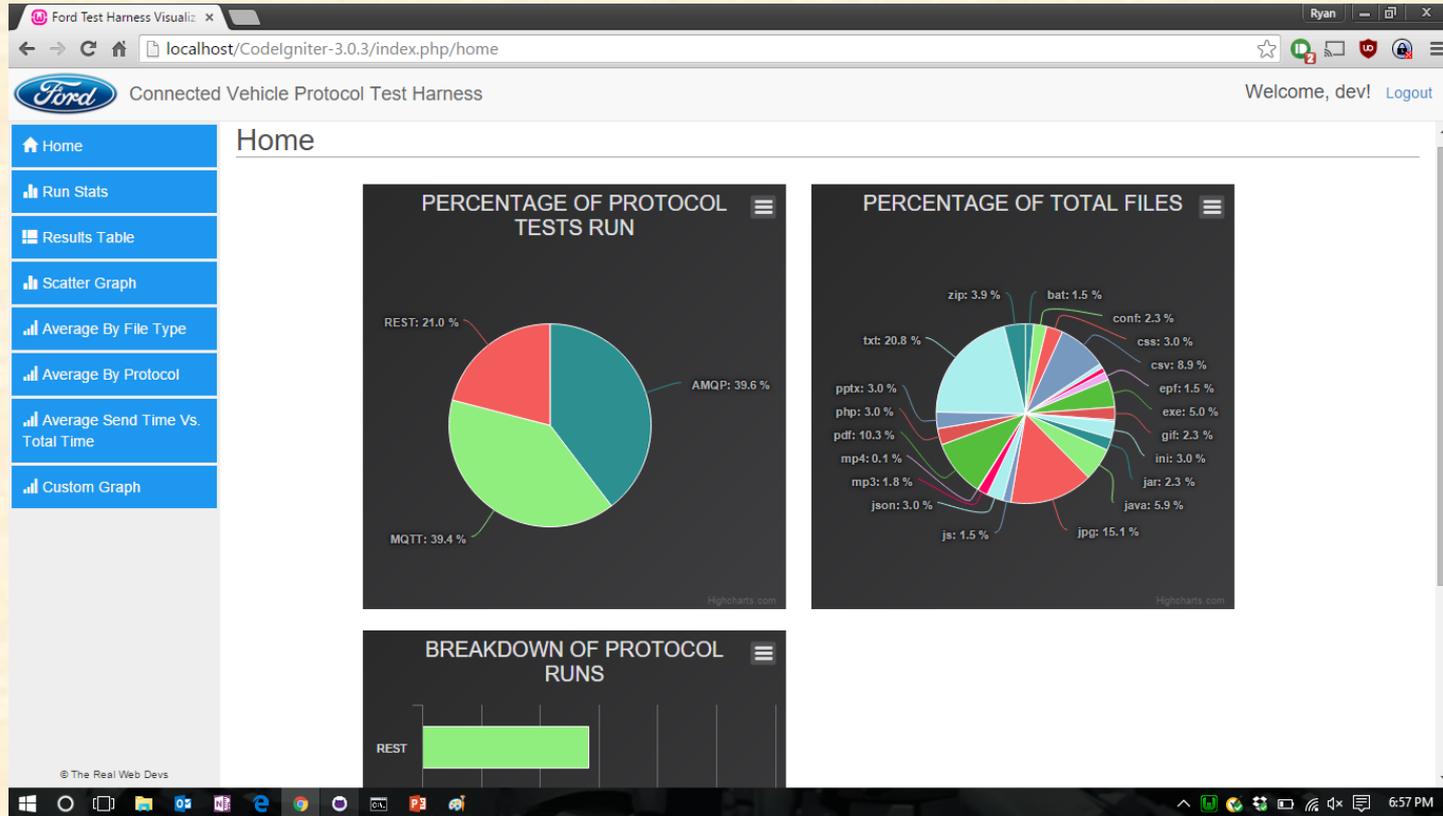
AMQP Results
Run 5 of 5
Average Speed: 12824.29 KB/s
Average Send Time: 0.08 second(s)
Running Time: 60.22 second(s)
Protocol: AMQP
Encrypted with: None
File Size: 1066KB
Package Size: 16KB
Packages Sent: 67
Packages Resent: 0
Total Time: 14.591 second(s)
Sending Time: 0.083 second(s)
Speed: 12843.37 KB/s

MQTT Results
Run 5 of 5
Average Speed: 8064.937 KB/s
Average Send Time: 0.172 second(s)
Running Time: 205.007 second(s)
Protocol: MQTT
Encrypted with: AES
File Size: 1066KB
Package Size: 16KB
Packages Sent: 67
Packages Resent: 0
Total Time: 28.231 second(s)
Sending Time: 0.154 second(s)
Speed: 6922.08 KB/s



Team Ford Beta Presentation

Home Page





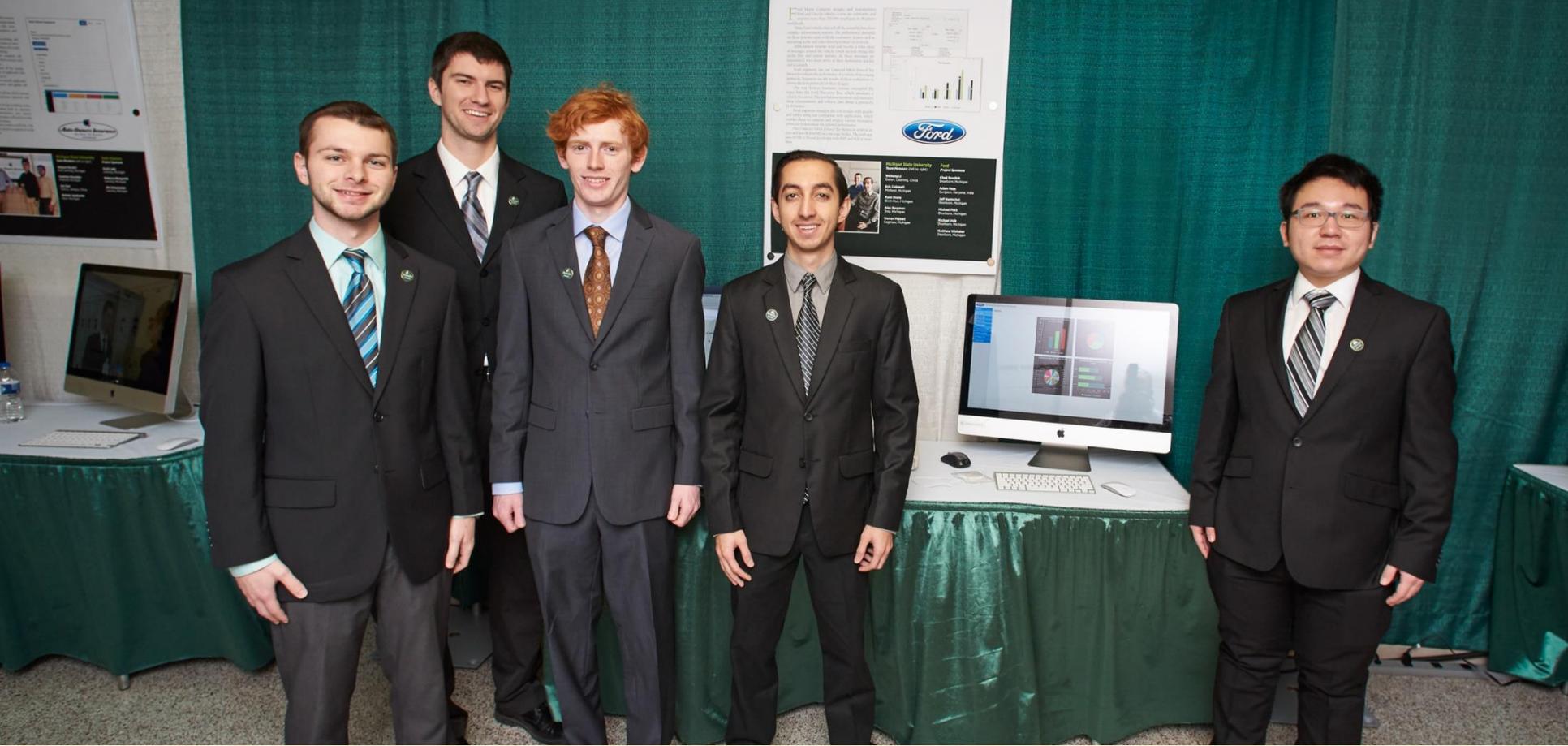
Team Ford Beta Presentation

Team Ford Beta Presentation

Results Table

The screenshot shows a web browser window with the URL `localhost/CodeIgniter-3.0.3/index.php/welcome/tables`. The page title is "Connected Vehicle Protocol Test Harness" and the user is logged in as "dev1". The left sidebar contains navigation links: Home, Run Stats, Results Table (active), Scatter Graph, Average By File Type, Average By Protocol, Average Send Time Vs. Total Time, and Custom Graph. The main content area is titled "Results Table" and displays a table of test results. The table has 10 columns: Protocol, File Type, Encryption Used, Channel Effect, File size (KB), Packet size (KB), Packets sent, Total Time (sec), Sending Time (sec), and TimeStamp. The table shows 10 rows of data, with the first row being AMQP, pdf, AES, Normal, 6924 KB, 512 KB, 15 packets, 61.631 sec total, 1.18 sec sending, and timestamp 2015-11-12 20:14:13. Below the table, it indicates "Showing 1 to 10 of 3,465 entries" and includes a "Download Table" button and a pagination control showing page 1 of 347.

Protocol	File Type	Encryption Used	Channel Effect	File size (KB)	Packet size (KB)	Packets sent	Total Time (sec)	Sending Time (sec)	TimeStamp
AMQP	pdf	AES	Normal	6924	512	15	61.631	1.18	2015-11-12 20:14:13
AMQP	pdf	AES	Normal	6924	512	15	59.848	0.767	2015-11-12 20:14:13
AMQP	pdf	AES	Normal	6924	512	15	56.76	0.754	2015-11-12 20:14:13
AMQP	pdf	AES	Normal	6924	512	15	61.882	0.83	2015-11-12 20:14:13
AMQP	pdf	AES	Normal	6924	512	15	77.061	1.019	2015-11-12 20:14:13
AMQP	pdf	AES	Normal	6924	512	15	93.758	1.527	2015-11-12 20:14:13
AMQP	gif	None	Normal	1076	128	10	20.303	0.092	2015-11-12 20:14:13
AMQP	gif	None	Normal	1076	128	10	19.466	0.137	2015-11-12 20:14:13
AMQP	gif	None	Normal	1076	128	10	23.861	0.156	2015-11-12 20:14:13
AMQP	pdf	AES	Normal	6924	512	15	111.213	1.404	2015-11-12 20:14:13



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Department of Computer Science and Engineering
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Fall 2015



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Team GM

Project Overview

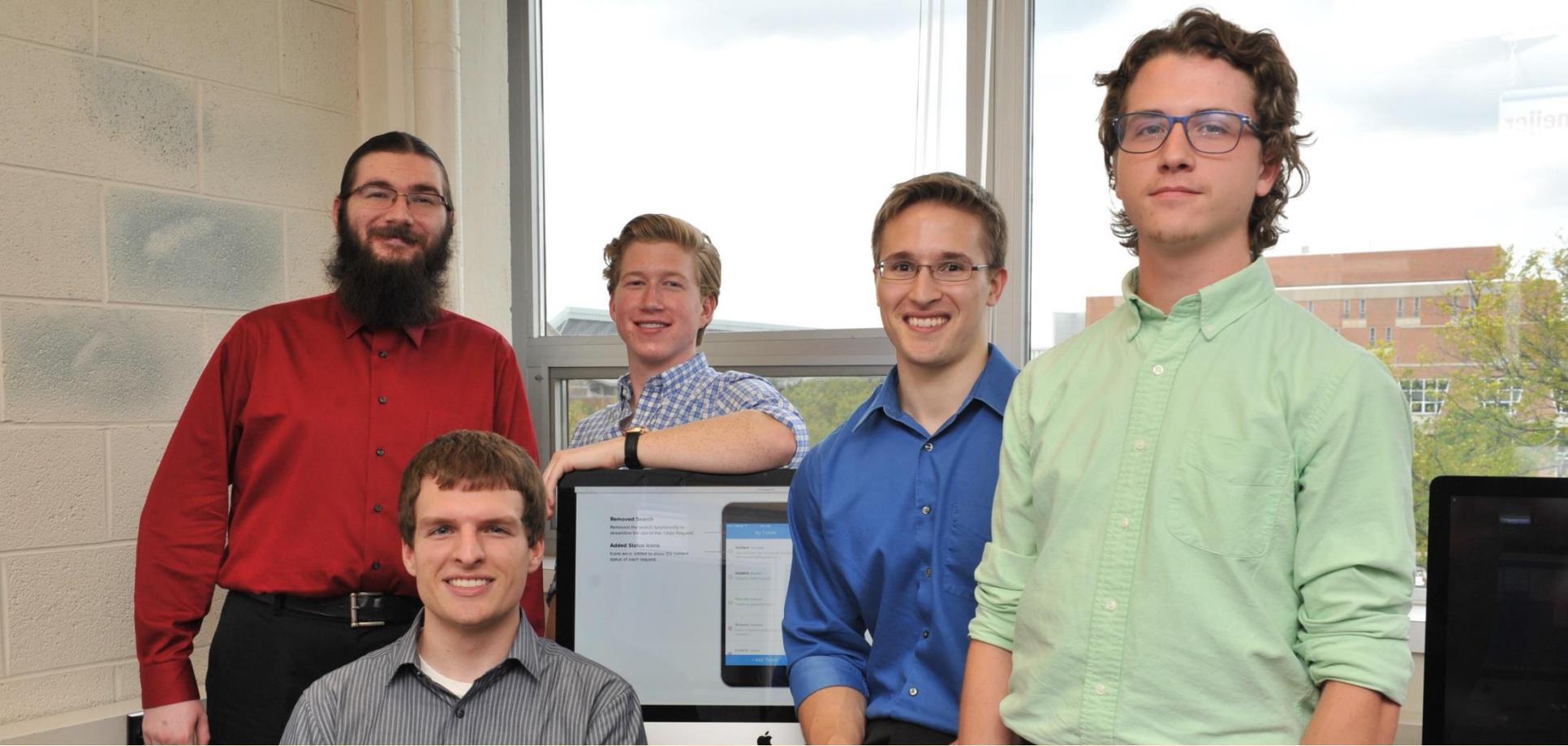
Asynchronous Service Desk Callback App

- Functionalities
 - Submit Request for Help and Callback
 - By GM Employee
 - To Global Service Desk
 - Using Mobile App
- Features
 - Integrate with Knowledge Management System
 - Show Potential Solutions
 - Cancel Help Request if Problem Solved
 - Provide Intelligent Queueing Mechanism
 - Select Optimal Callback Time
 - Based on Availability of Service Desk Operator and Employee
 - Support both Apple and Android Devices
- Technologies
 - Google Android Tablets and Phones / Java
 - Apple iPads and iPhones (iOS) / Swift or Objective-C
 - RESTful Web Services
 - CSS / HTML / JavaScript
 - Exchange / Outlook



Detroit, Michigan



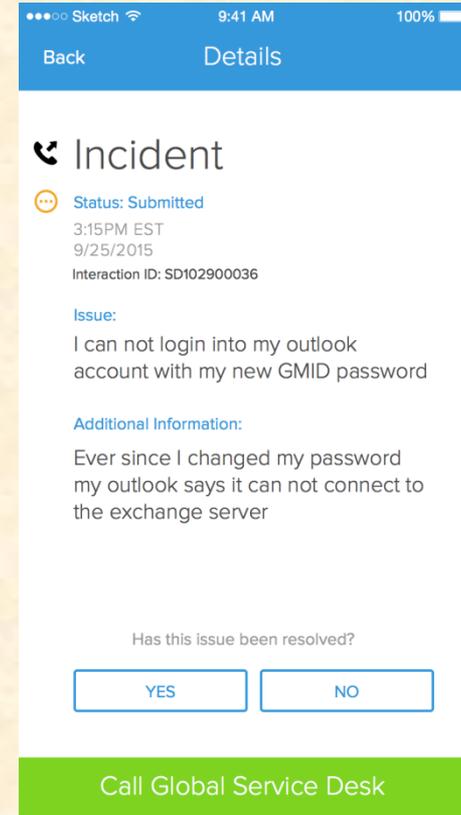
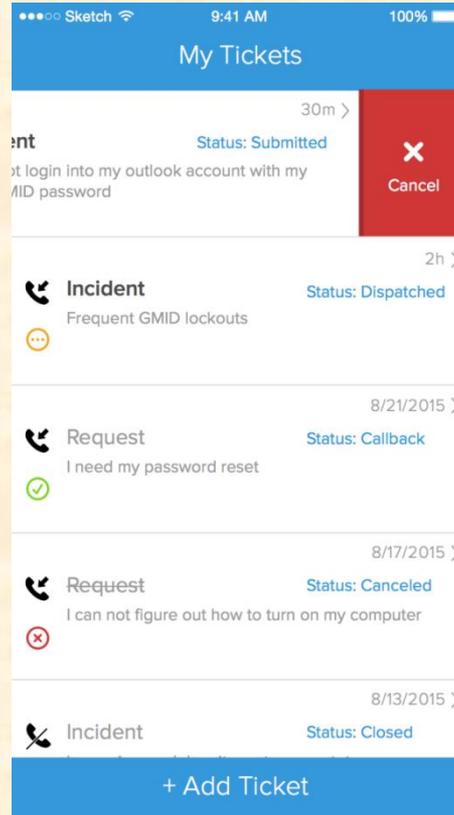
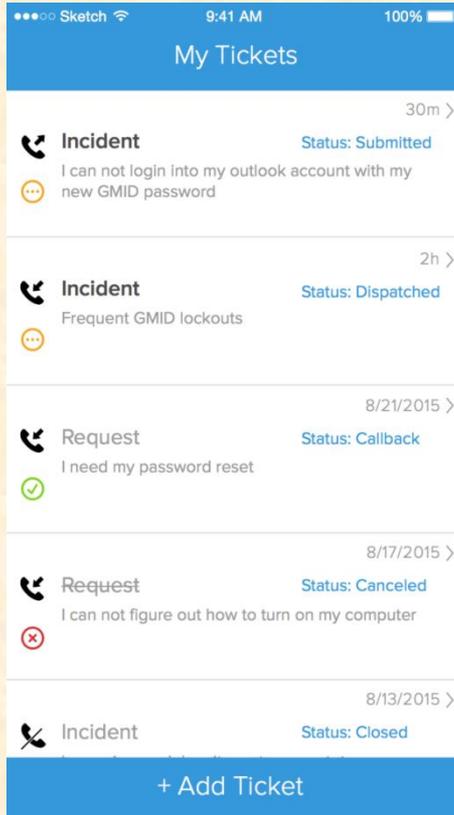


Team GM

Brian Hart, Michael Palmer, Corbin Rangler, Evan Hlavaty, Sean Rabaut

Team GM Project Plan Presentation

Screen Mockups

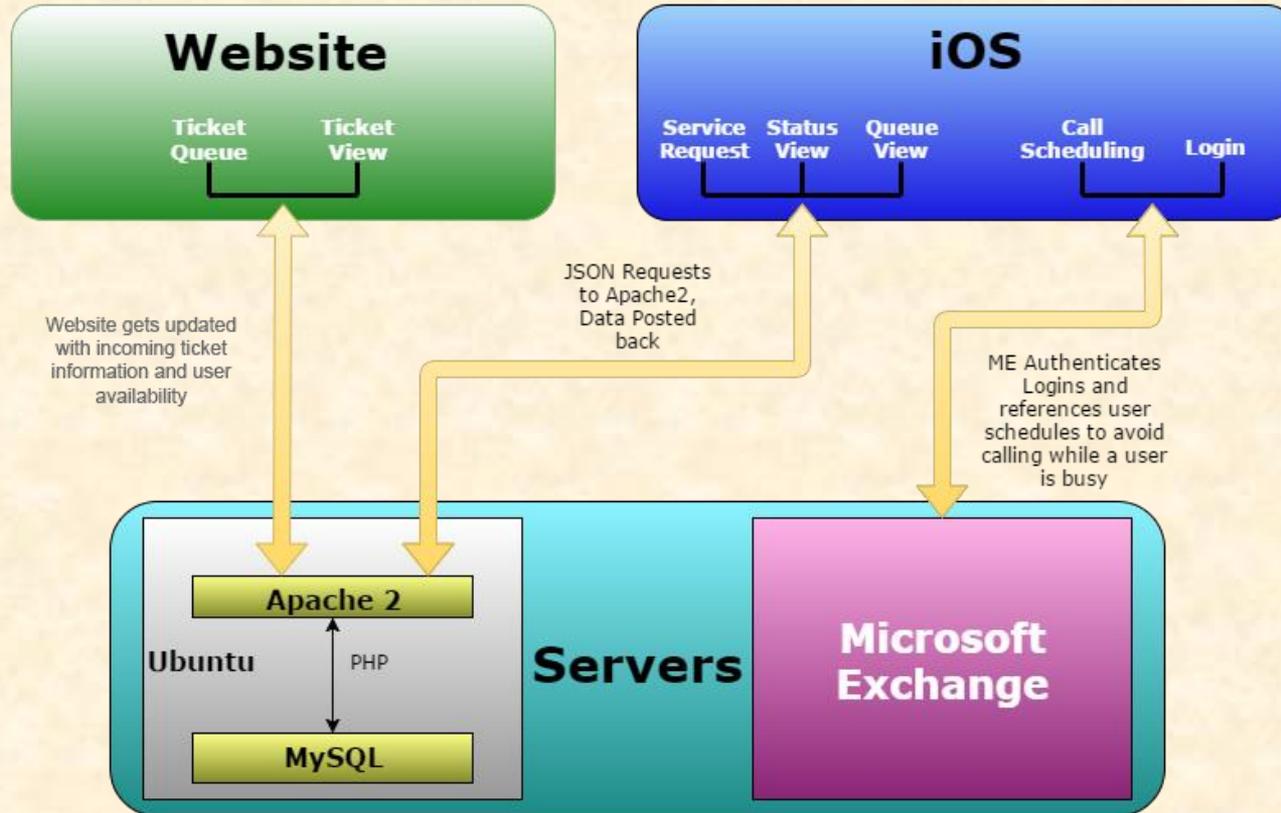


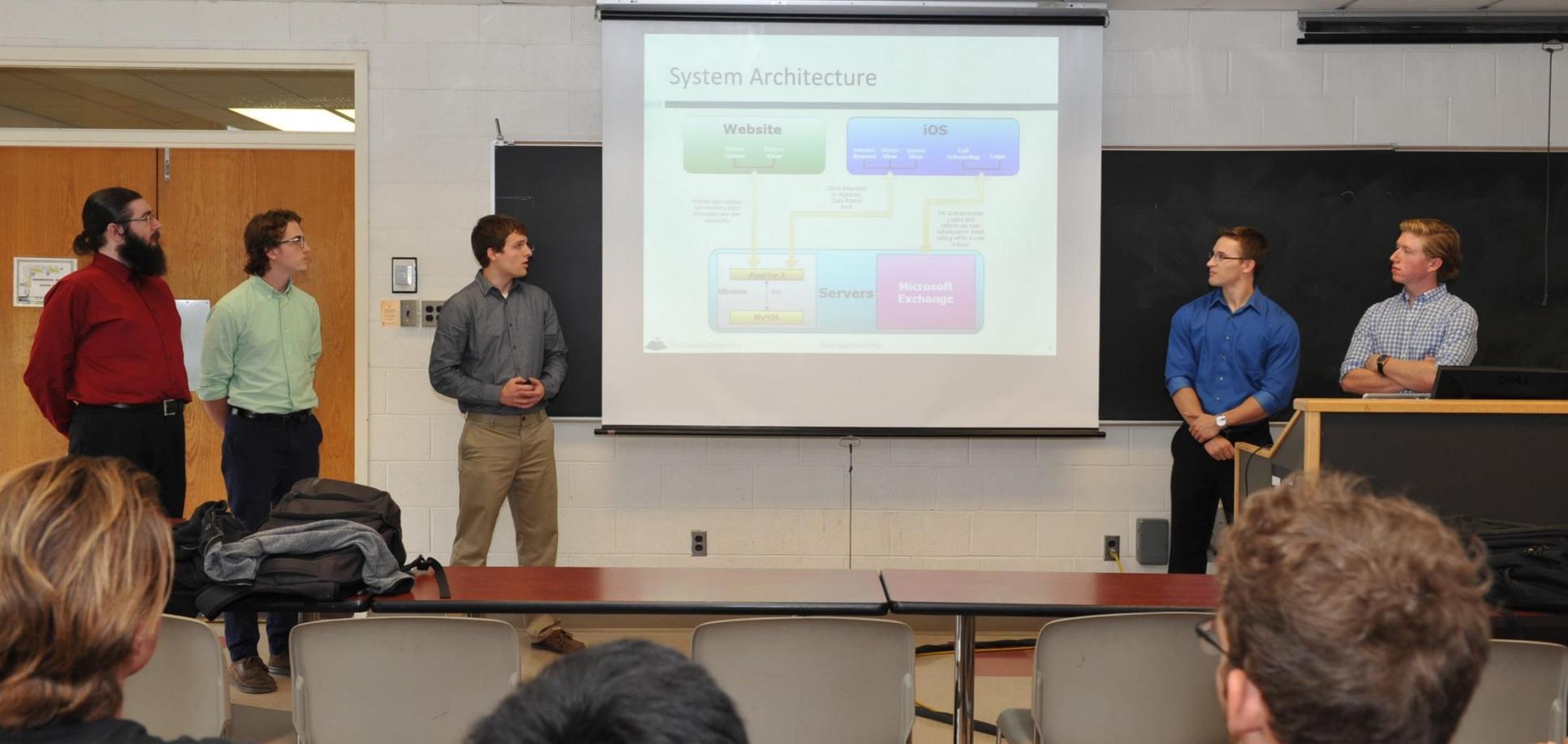


Team GM Project Plan Presentation

Team GM Project Plan Presentation

Architecture Diagram

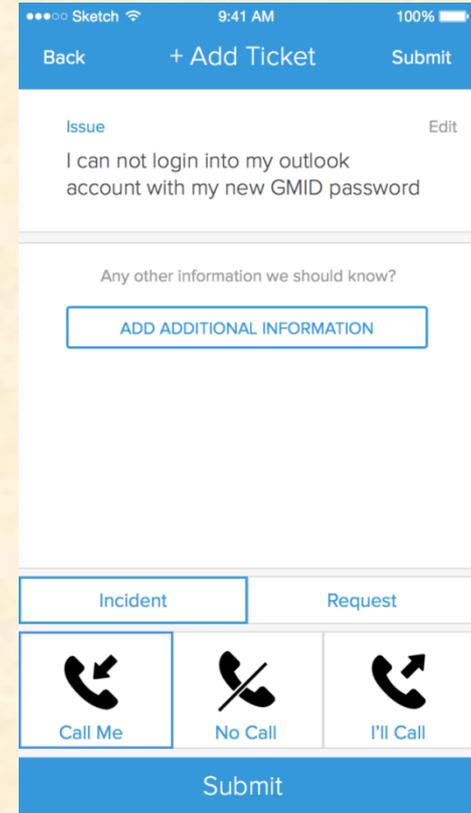
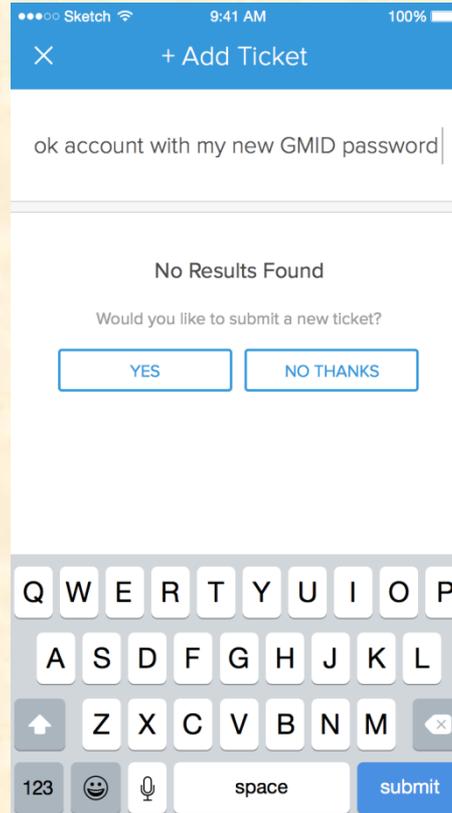
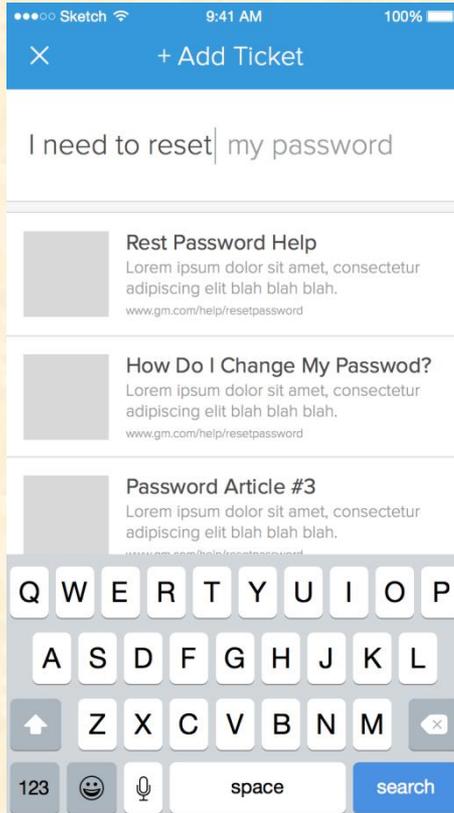




Team GM Project Plan Presentation

Team GM Project Plan Presentation

Screen Mockup

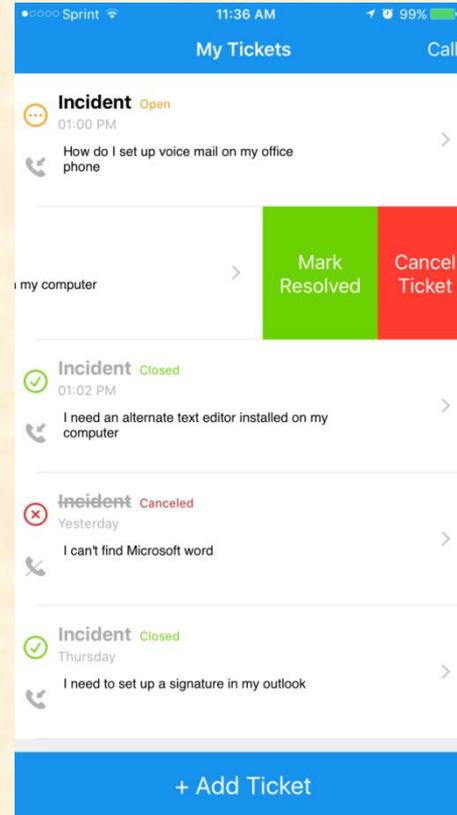
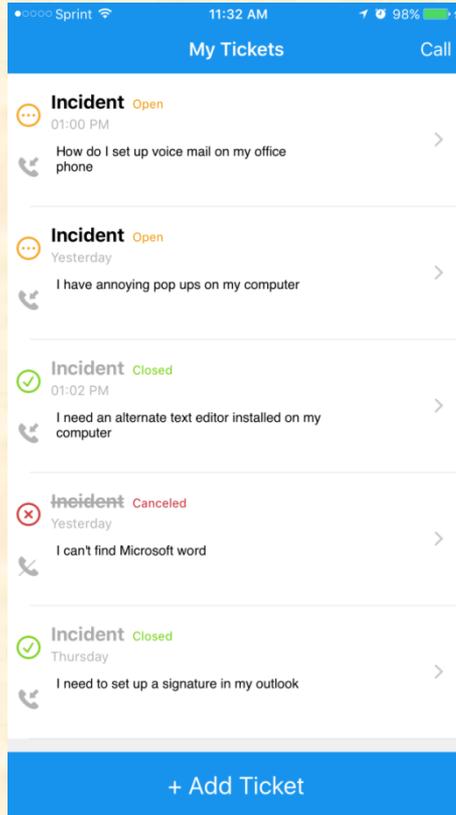




Team GM Alpha Presentation

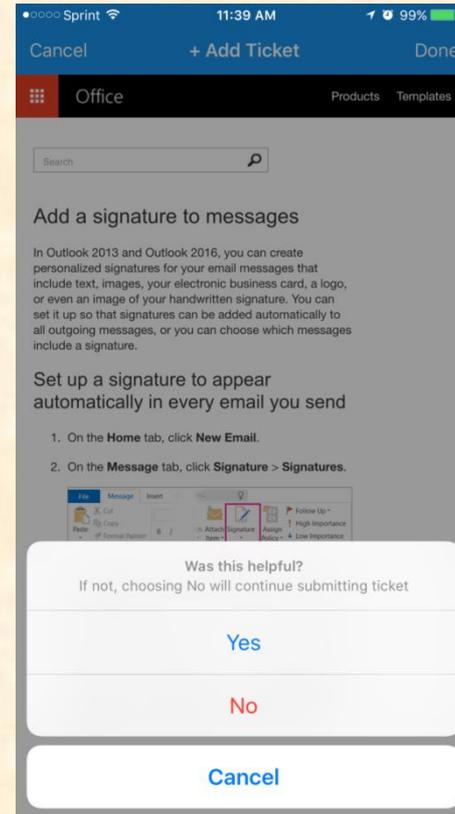
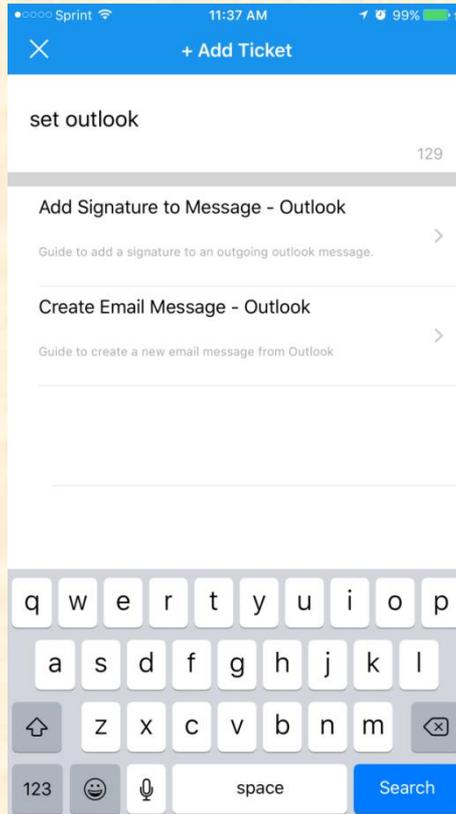
Team GM Alpha Presentation

Tickets List



Team GM Alpha Presentation

Issue Input/Search

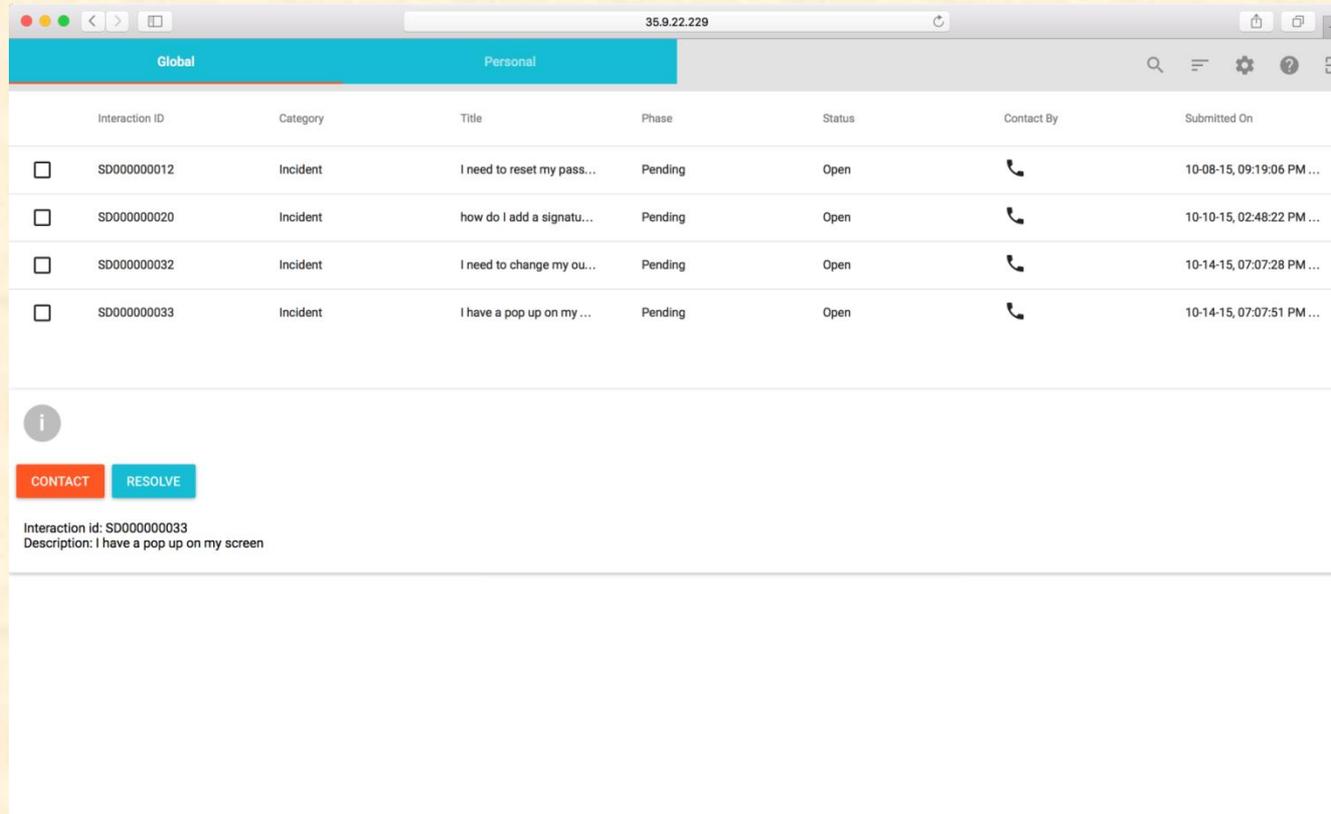




Team GM
Alpha Presentation

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Web Ticket Queue



The screenshot displays a web application interface for a ticket queue. At the top, there are tabs for 'Global' and 'Personal'. Below the tabs is a table with columns: Interaction ID, Category, Title, Phase, Status, Contact By, and Submitted On. The table contains four rows of incident data. Below the table, there is an information icon, two buttons labeled 'CONTACT' and 'RESOLVE', and a detailed view for the selected incident (Interaction ID: SD000000033) with the description: 'I have a pop up on my screen'.

Interaction ID	Category	Title	Phase	Status	Contact By	Submitted On
<input type="checkbox"/> SD000000012	Incident	I need to reset my pass...	Pending	Open		10-08-15, 09:19:06 PM ...
<input type="checkbox"/> SD000000020	Incident	how do I add a signatu...	Pending	Open		10-10-15, 02:48:22 PM ...
<input type="checkbox"/> SD000000032	Incident	I need to change my ou...	Pending	Open		10-14-15, 07:07:28 PM ...
<input type="checkbox"/> SD000000033	Incident	I have a pop up on my ...	Pending	Open		10-14-15, 07:07:51 PM ...

i

CONTACT **RESOLVE**

Interaction id: SD000000033
Description: I have a pop up on my screen

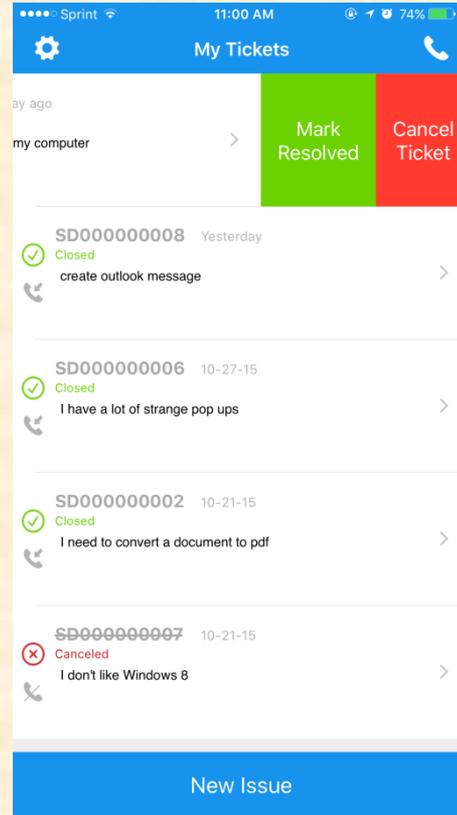
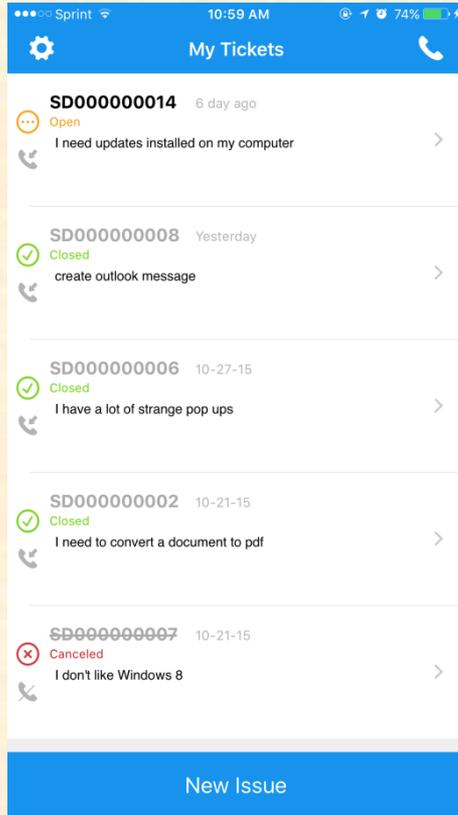




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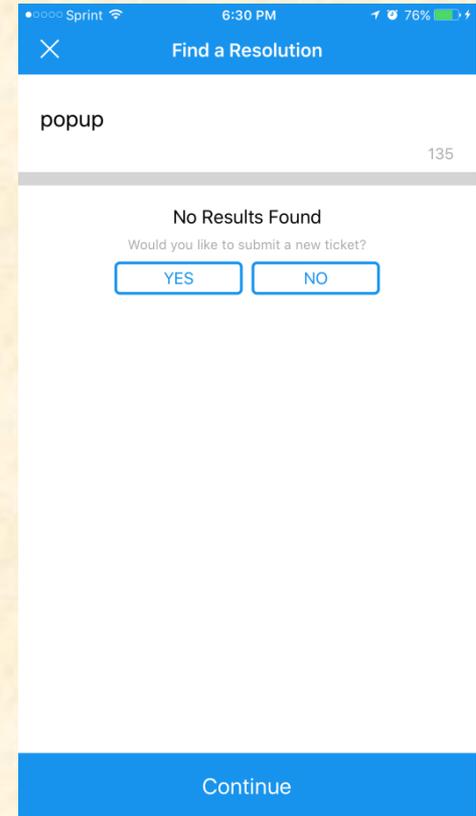
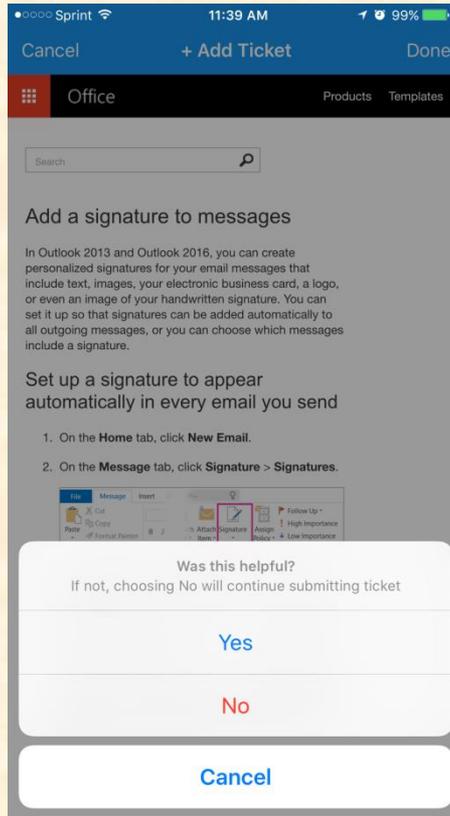
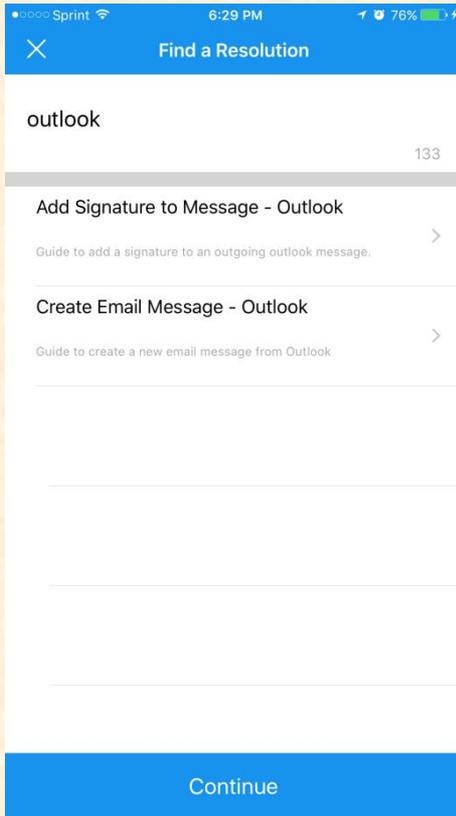
Team GM Beta Presentation

My Tickets



Team GM Beta Presentation

Find a Resolution





Team GM Beta Presentation

Team GM Beta Presentation

IT Service Manager

The screenshot displays the GM Global Service Desk interface. At the top, there's a navigation bar with 'Global Service Desk', 'Global Queue', 'Personal Queue', and 'Feedback' tabs. The user 'John Smith' is logged in. Below the navigation is a table of incidents. The second incident, SD000000042, is selected. Below the table, there are two panels: a contact information panel for Corbin Rangler and a detailed incident view for SD000000042. The incident view shows the interaction ID, issue, status, phase, and description. A 'Move to Personal' button is visible at the bottom right of the incident view.

ID	Type	Issue	Status	Phase	Created	Updated	Priority
SD000000028	Incident	Uninstall a program from ...	Open	Pending	22 minutes ago	5 days ago	High
SD000000042	Incident	Remove annoying popups	Open	Pending	3 hours ago	3 hours ago	Medium
SD000000038	Incident	ticket queue empty	Open	Pending	a day ago	a day ago	High
SD000000036	Incident	outlook	Open	Pending	4 days ago	4 days ago	Medium
SD000000035	Incident	word	Open	Pending	4 days ago	4 days ago	High

Contact Information:
Name: Corbin Rangler
Email: ranglerc@gmcapstone.com
Phone: 237-846-2277

Incident Details:
Interaction ID: SD000000042
Issue: Remove annoying popups
Status: Open
Phase: Pending
Description: I have popups in the bottom right corner of my screen at start up

[Move to Personal](#)





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Team Meijer Project Overview

In-Store Price Compare

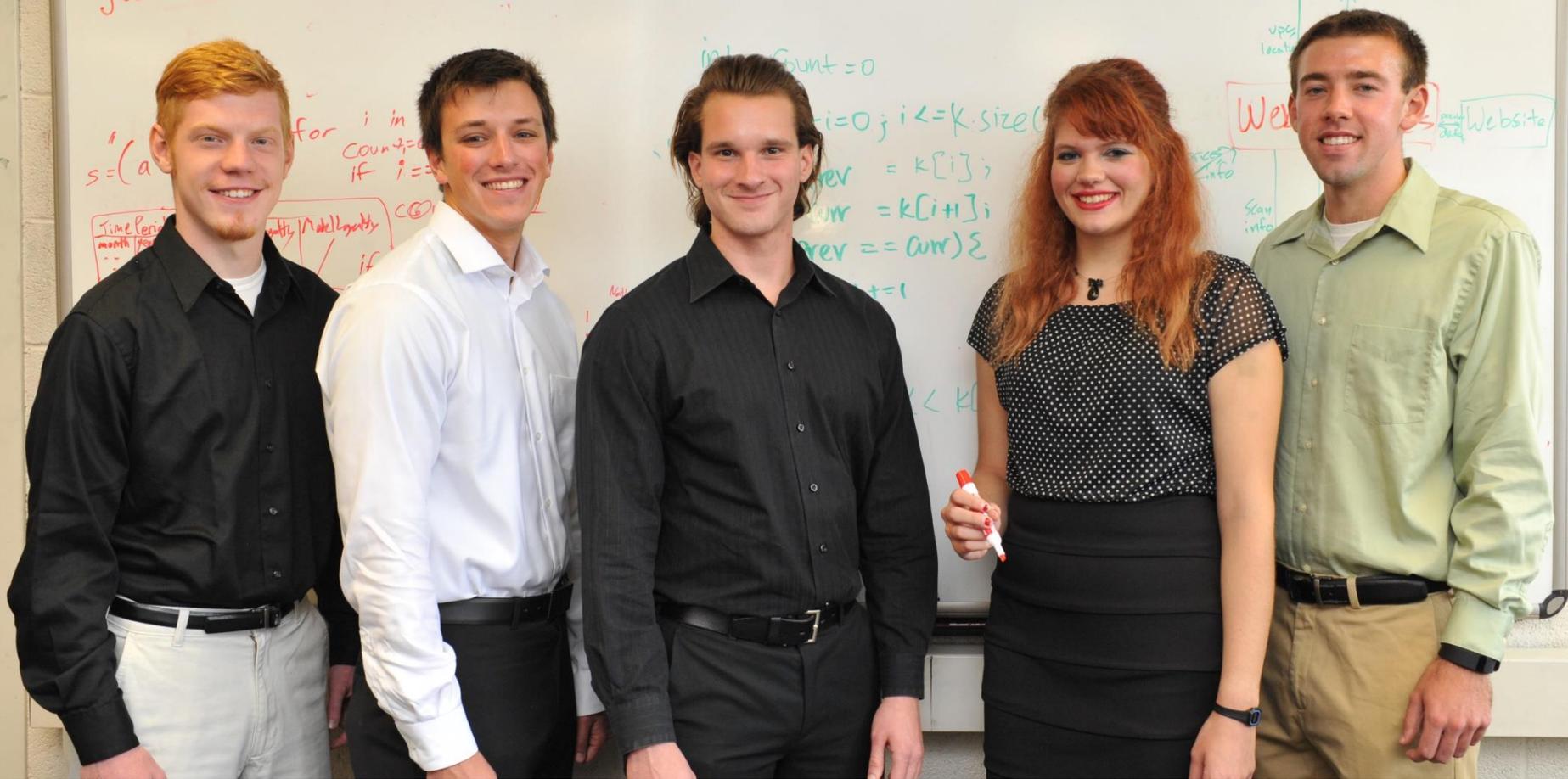
- Functionalities
 - Compare Meijer Price Against List of 3rd Party Stores
 - Brick and Mortar
 - Online
 - Near Me
 - By Scanning Barcode
 - Using Mobile Device
- Features
 - Provide Web Service to Interface with Devices
 - Support 3rd Party Services (Best Buy, Walmart, Amazon, Etc.)
 - Store Results and Provide Meijer Business Intelligence Web App
 - What products are being scanned the most?
 - Where are the largest price gaps?
 - What are the smallest and largest prices and what competitors have them?
 - Etc?
 - Possibly Provide Custom Meijer Coupon Based on Price Gap
- Technologies
 - Apple iPhones (iOS) / Swift or Objective-C
 - Xamarin or PhoneGap
 - Microsoft .NET Framework / C# / ASP.NET / Azure Mobile Services
 - SQL Server 2012
 - Meijer Web Services
 - Crashlytics
 - GitHub



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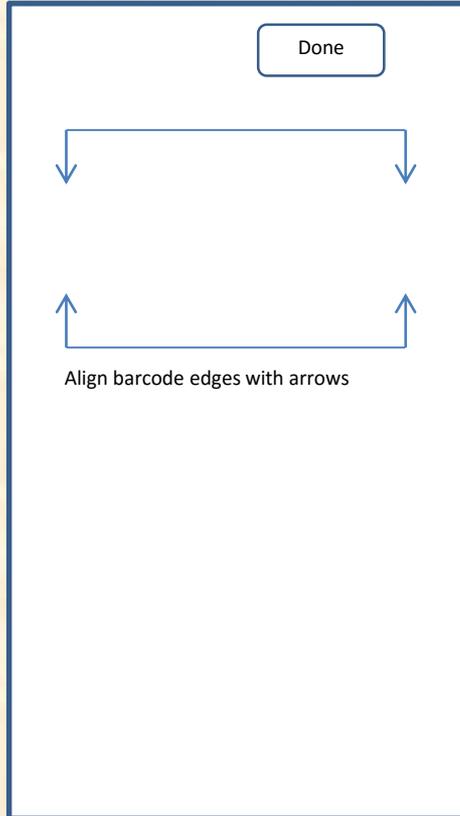


Team Meijer

Brian Wyss, Brandon Bielicki, Spencer Ottarson, Zandra Russell, Tony Laurain

Team Meijer Project Plan Presentation

Screen Mockup



A mockup of the Meijer Price Compare app interface. At the top left is the Meijer logo. To its right is the text "Price Compare" and a button with a left arrow and the text "Scan". Below this is a rounded rectangular card containing a red smiley face icon and the text "Product Name". Underneath is the text "Product Description". Below that is the Meijer logo followed by the price "\$##.##". Below this card is a section titled "COMPETITOR PRICES" containing a table with three rows.

COMPETITOR PRICES	
#1	\$##.##
#2	\$##.##
#3	\$##.##

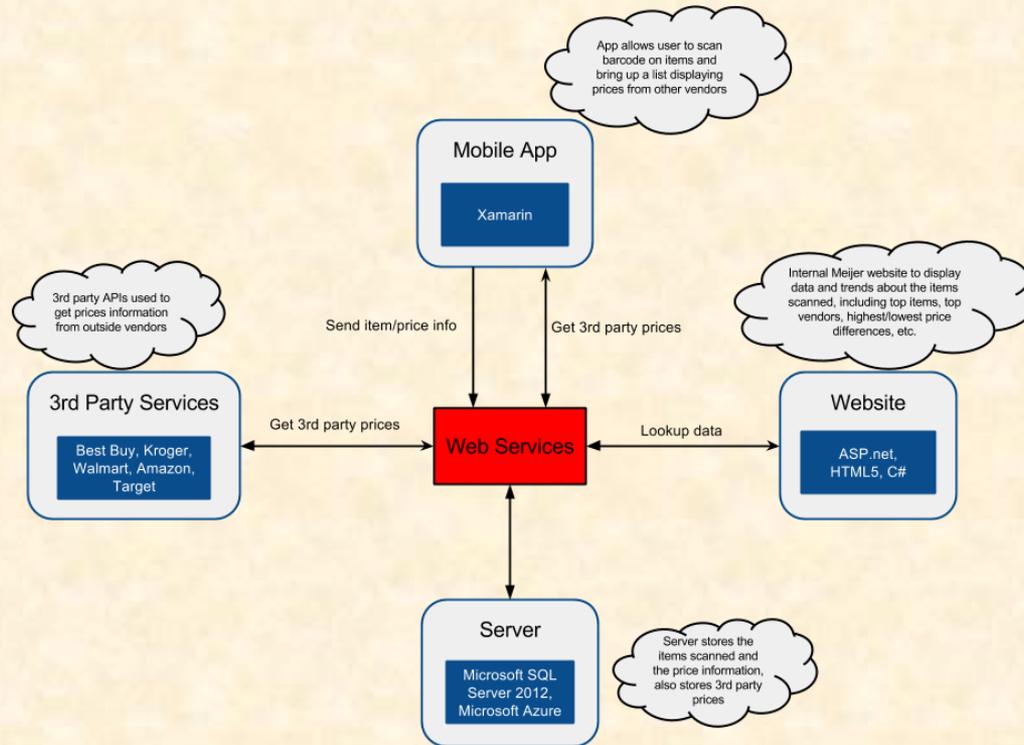




Team Meijer
Project Plan Presentation

Team Meijer Project Plan Presentation

Architecture Diagram





Team Meijer
Project Plan Presentation

Team Meijer Project Plan Presentation

Screen Mockup



Logged in as _____ [Logout](#)

Location:

Sort by: [Submit](#)

Product Name	Location	Time	UPC	Department	Meijer Price	Walmart Price	Best Buy Price	Target Price

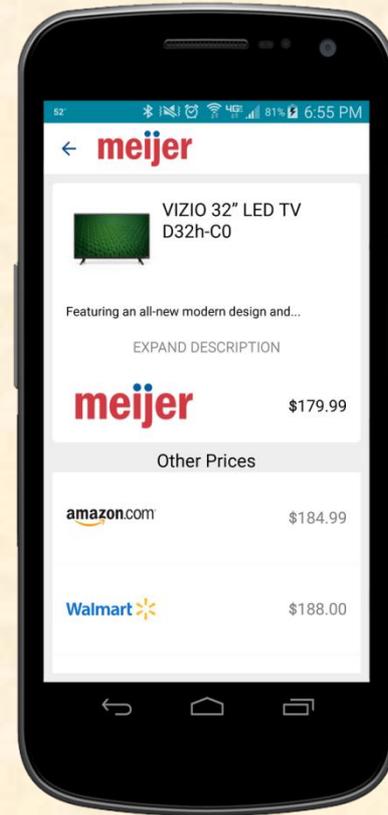




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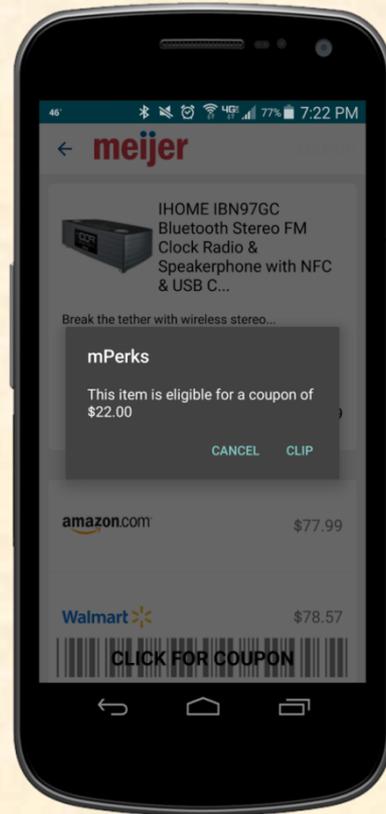
Team Meijer Alpha Presentation

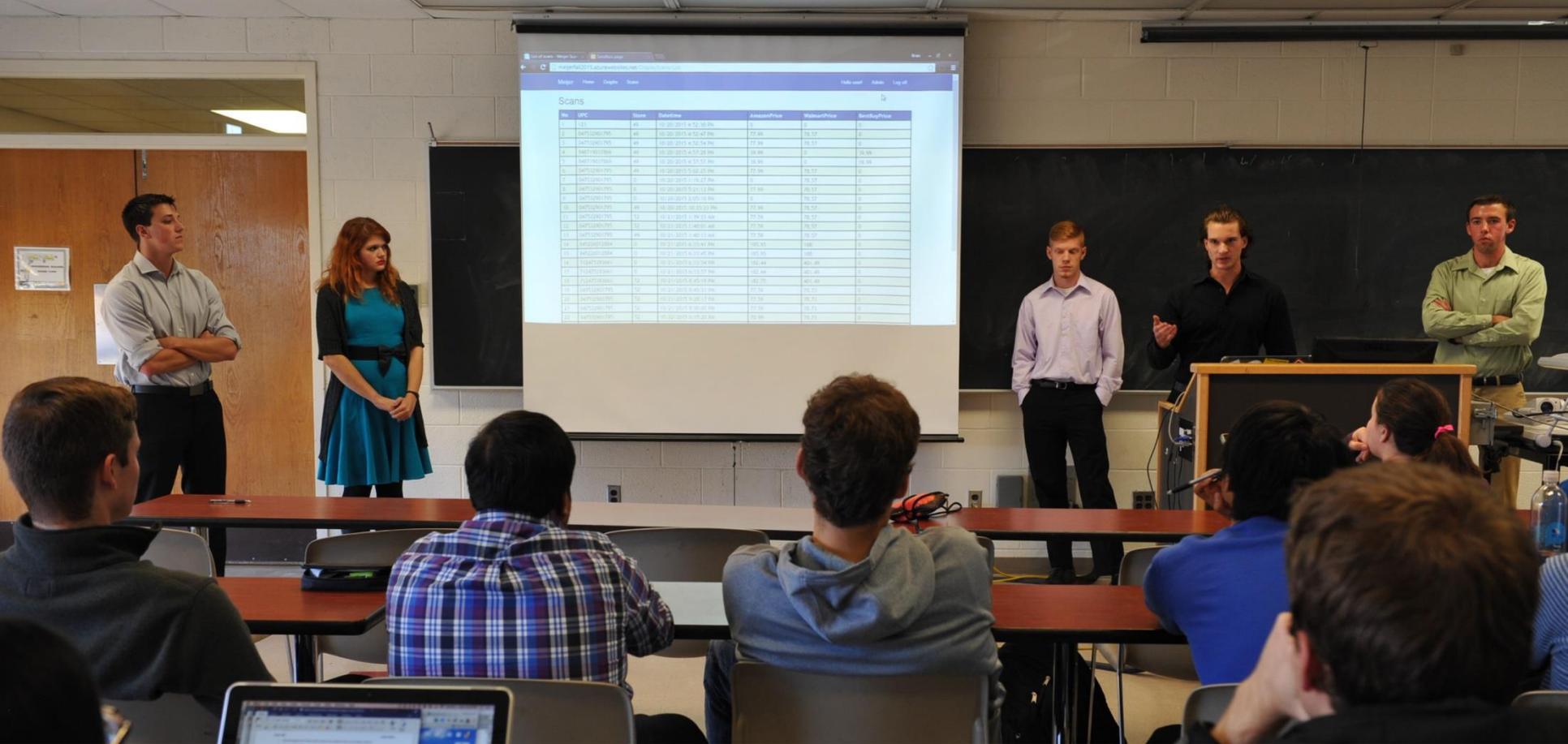
Mobile App: Scan and Result



Team Meijer Alpha Presentation

Mobile App: Coupon Popup

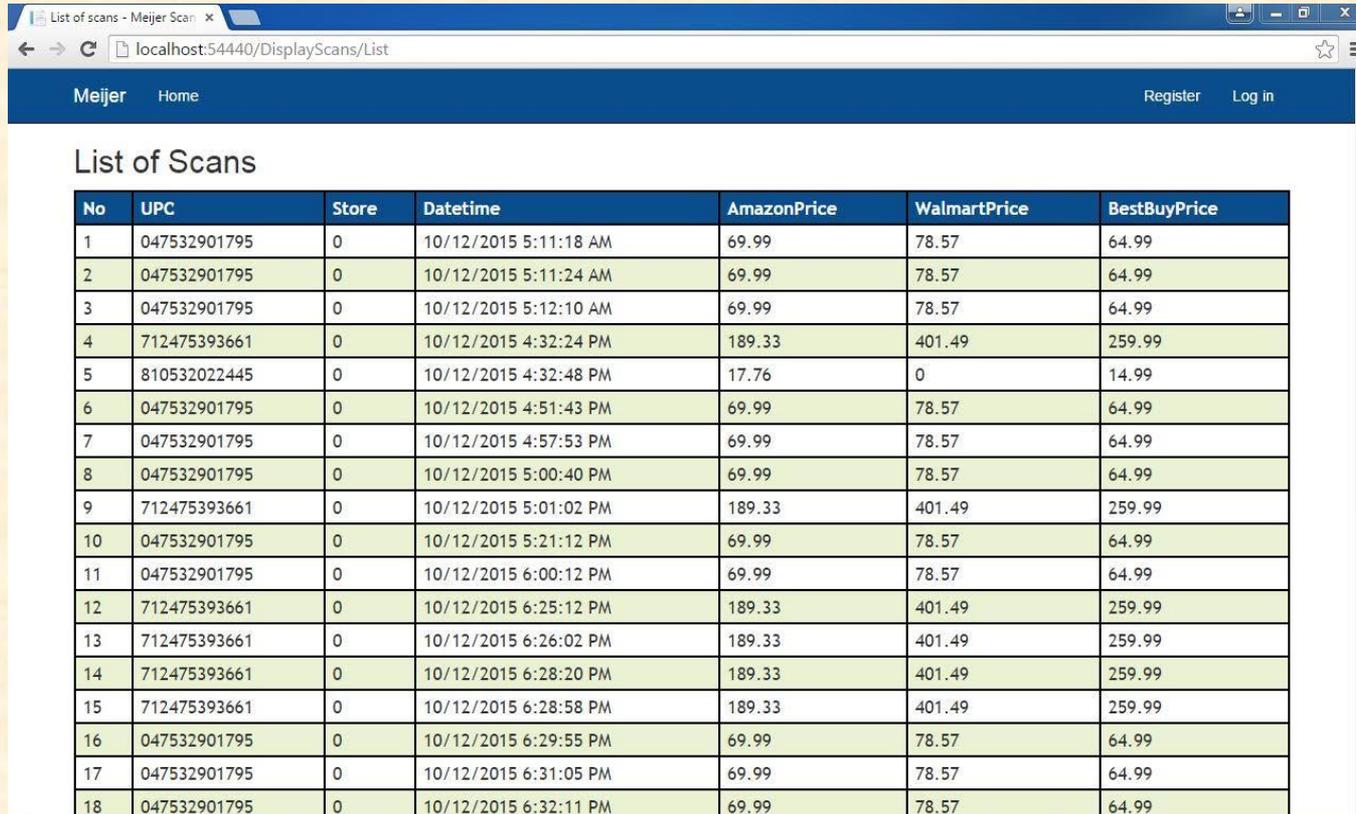




Team Meijer
Alpha Presentation

Team Meijer Alpha Presentation

Website Scan Table



Meijer Home Register Log in

List of Scans

No	UPC	Store	Datetime	AmazonPrice	WalmartPrice	BestBuyPrice
1	047532901795	0	10/12/2015 5:11:18 AM	69.99	78.57	64.99
2	047532901795	0	10/12/2015 5:11:24 AM	69.99	78.57	64.99
3	047532901795	0	10/12/2015 5:12:10 AM	69.99	78.57	64.99
4	712475393661	0	10/12/2015 4:32:24 PM	189.33	401.49	259.99
5	810532022445	0	10/12/2015 4:32:48 PM	17.76	0	14.99
6	047532901795	0	10/12/2015 4:51:43 PM	69.99	78.57	64.99
7	047532901795	0	10/12/2015 4:57:53 PM	69.99	78.57	64.99
8	047532901795	0	10/12/2015 5:00:40 PM	69.99	78.57	64.99
9	712475393661	0	10/12/2015 5:01:02 PM	189.33	401.49	259.99
10	047532901795	0	10/12/2015 5:21:12 PM	69.99	78.57	64.99
11	047532901795	0	10/12/2015 6:00:12 PM	69.99	78.57	64.99
12	712475393661	0	10/12/2015 6:25:12 PM	189.33	401.49	259.99
13	712475393661	0	10/12/2015 6:26:02 PM	189.33	401.49	259.99
14	712475393661	0	10/12/2015 6:28:20 PM	189.33	401.49	259.99
15	712475393661	0	10/12/2015 6:28:58 PM	189.33	401.49	259.99
16	047532901795	0	10/12/2015 6:29:55 PM	69.99	78.57	64.99
17	047532901795	0	10/12/2015 6:31:05 PM	69.99	78.57	64.99
18	047532901795	0	10/12/2015 6:32:11 PM	69.99	78.57	64.99

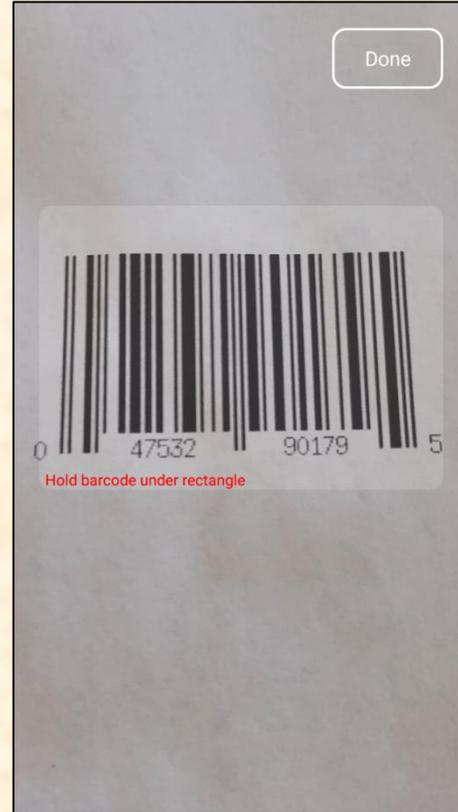
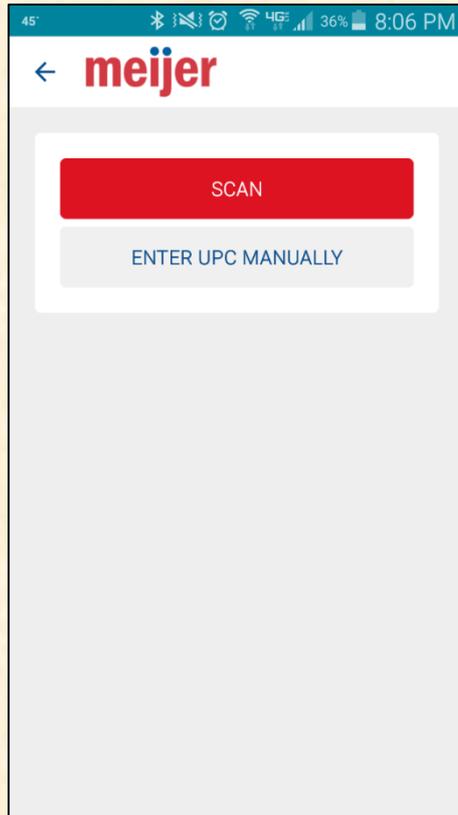




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Mobile Scan Screen



Team Meijer Beta Presentation

Mobile Results Screen

45° 4G LTE 35% 8:07 PM

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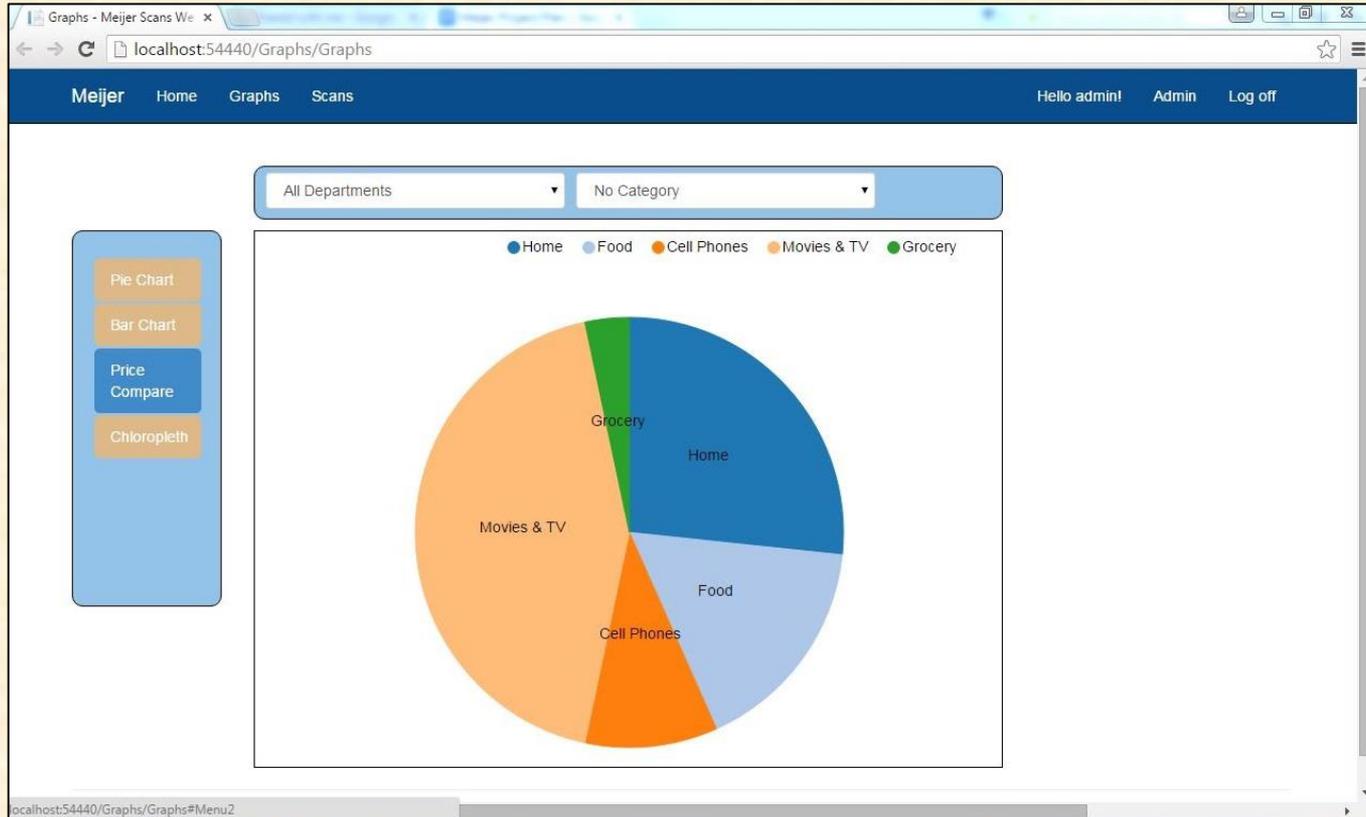
Walmart \$16.29

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Team Meijer Beta Presentation

Web Graphs Page: Pie Chart





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Tuesday, September 15

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Current Rates

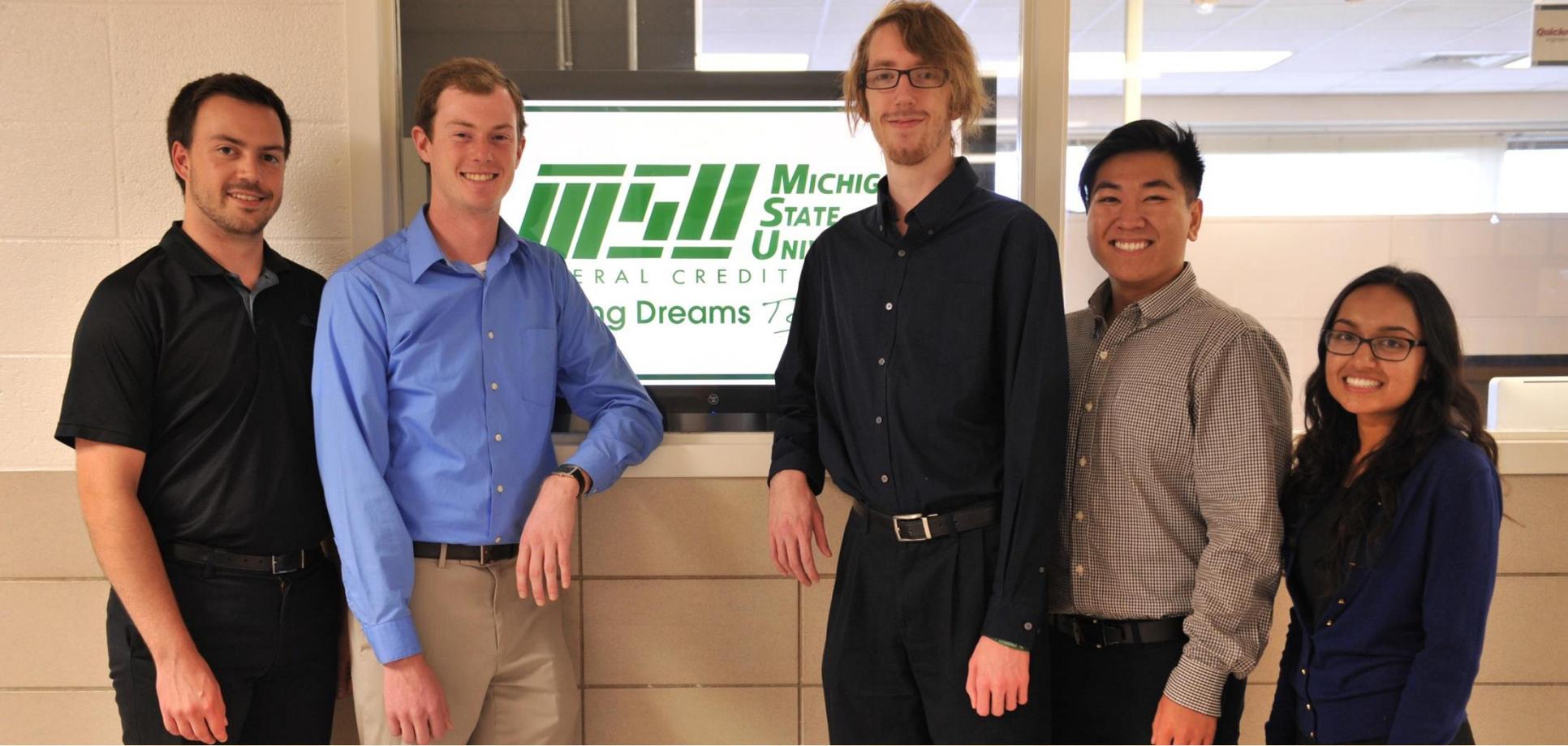
Loans	Home Loans	Savings	Business
Auto Loan		as low as 2.450% APR	
Platinum Visa		as low as 8.900% APR	
Motorcycle Loan		as low as 2.790% APR	

Team MSUFCU Project Overview

Online Dollar Dog Store

- Functionalities
 - Promote Financial Education of Children Everywhere
 - Deposits Earn Dollar Dog Coins
 - Can Be Redeemed in Dollar Dog Stores
 - But Currently Only in 13 Lansing Branches
 - By Expanding Dollar Dog Program
 - From Limited Physically Branch-Based
 - To Unlimited Virtually Mobile and Web-Based
- Features
 - Provide Access to Dollar Dog Program Online
 - View Dollar Dog Coin Balances
 - Award Coins for Participation in Online Educational Activities
 - Shop for Prizes at the Dollar Dog Store
 - Support Apple (iOS), Android and Web Apps
 - Integrate Seamlessly With Existing MSUFCU Software
 - Provide MSUFCU Management Web App
 - Add/Remove and Inventory Prizes
 - Adjust Dollar Dog Coin Balances
 - Send Text Messages to Users
 - Ensure High Level of Security
- Technologies
 - Google Android Tablets and Phones / Java
 - Apple iPads and iPhones (iOS) / Swift or Objective-C
 - CSS / HTML
 - PHP
 - JavaScript
 - Encryption Based on SQL Standards



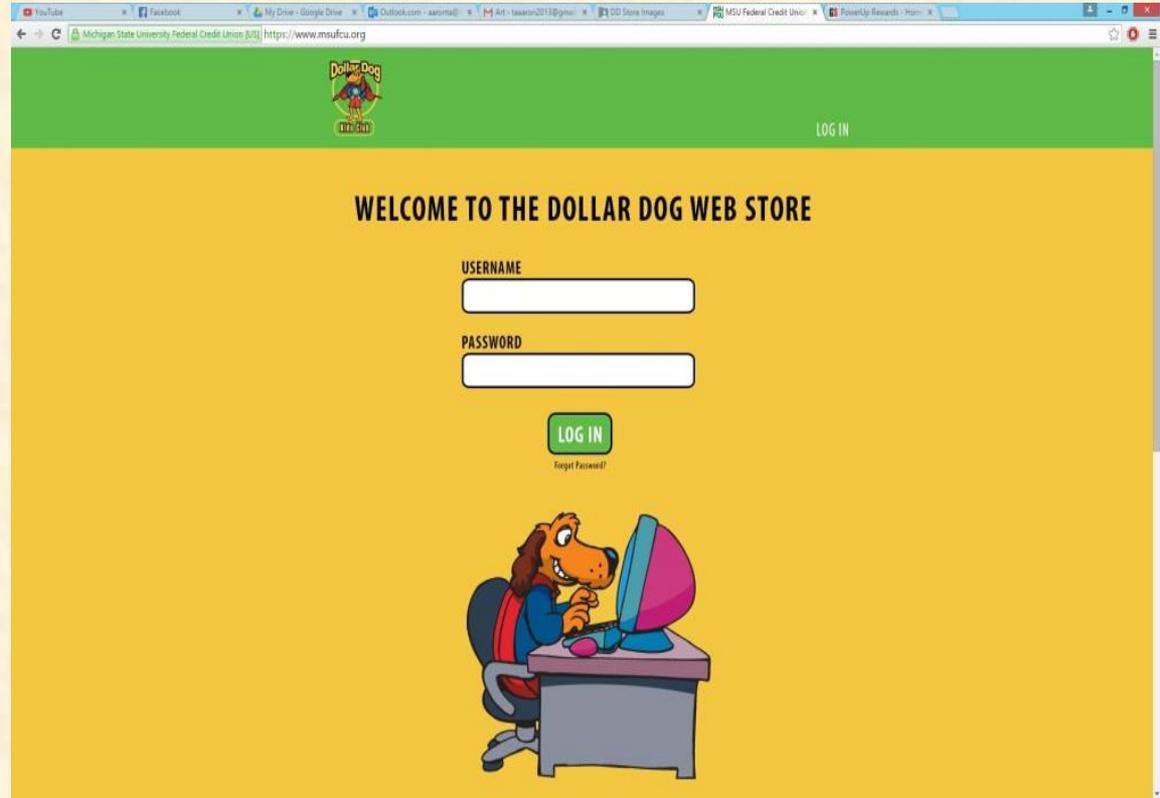


Team MSUFCU

Zac Walters, Ryan McIntyre, Andrew MacAfee, Aaron Ta, Neha Gupta

Team MSUFCU Project Plan Presentation

Screen Mockup

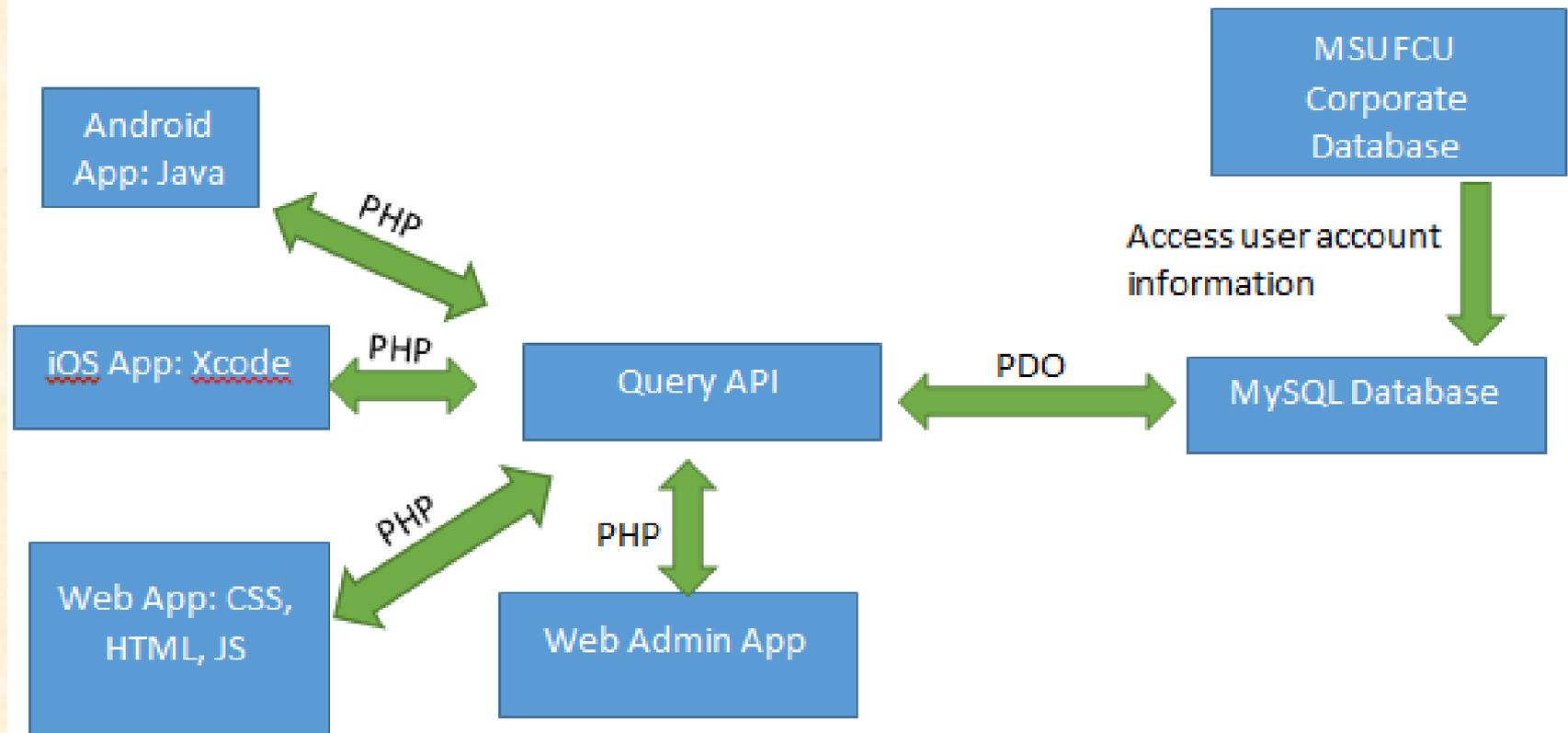




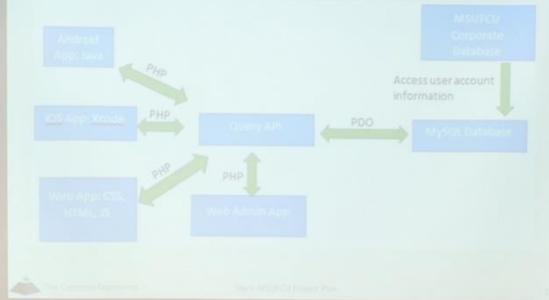
Team MSUFCU Project Plan Presentation

Team MSUFCU Project Plan Presentation

Architecture Diagram



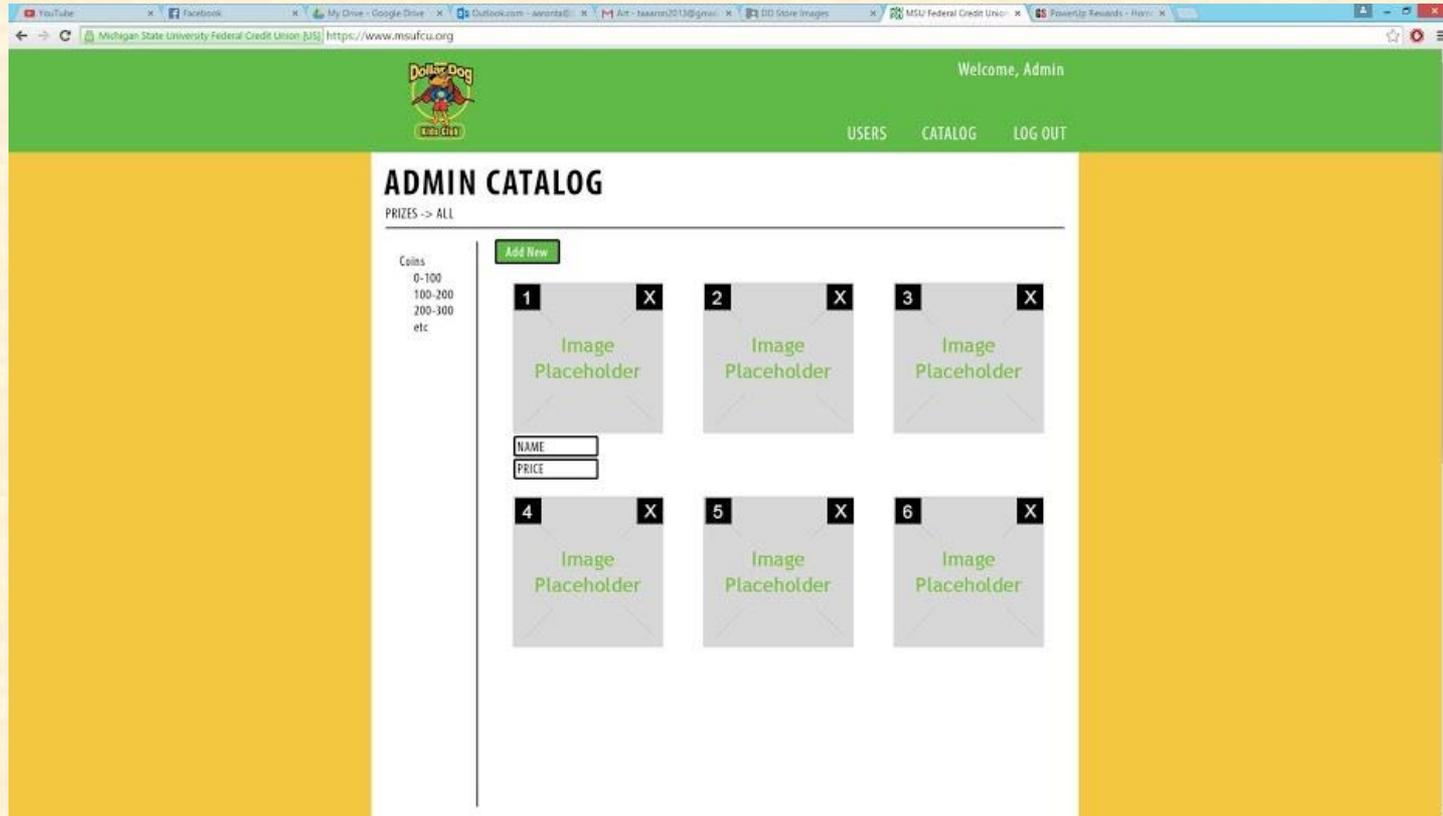
System Architecture



Team MSUFCU
Project Plan Presentation

Team MSUFCU Project Plan Presentation

Screen Mockup

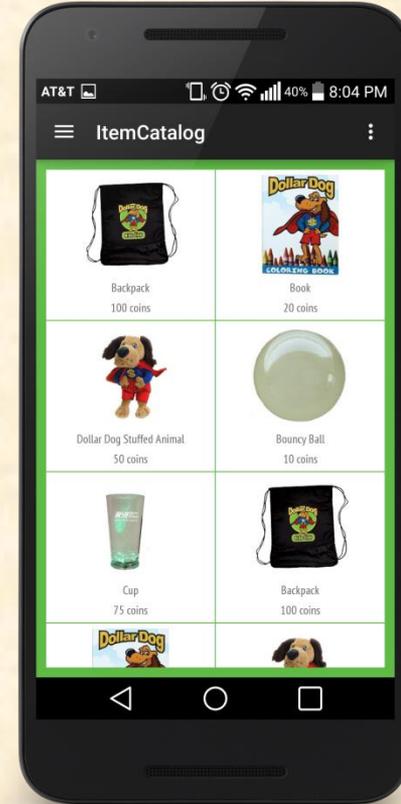
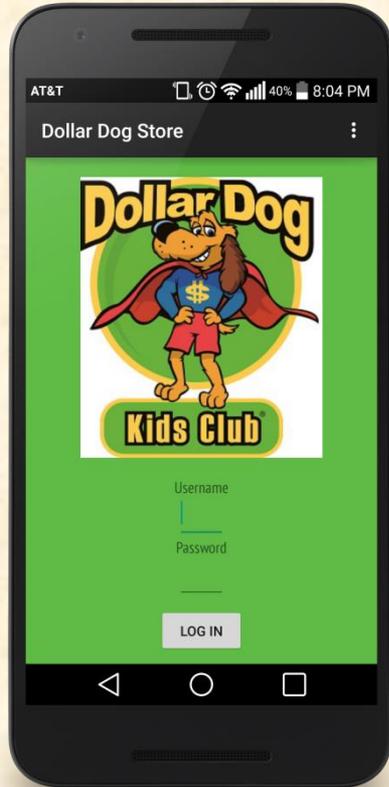




Team MSUFCU Alpha Presentation

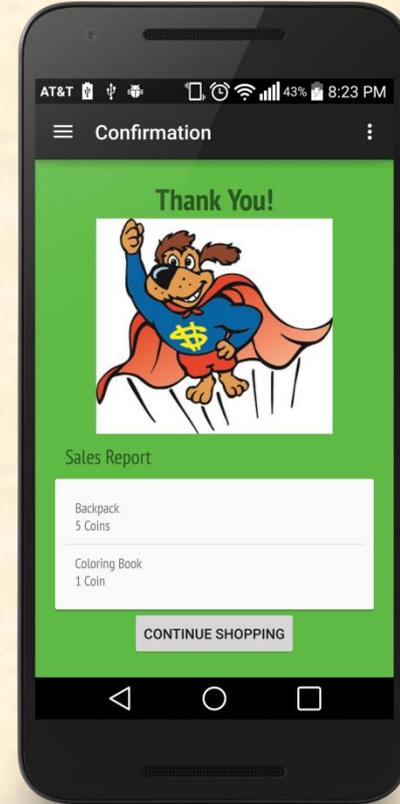
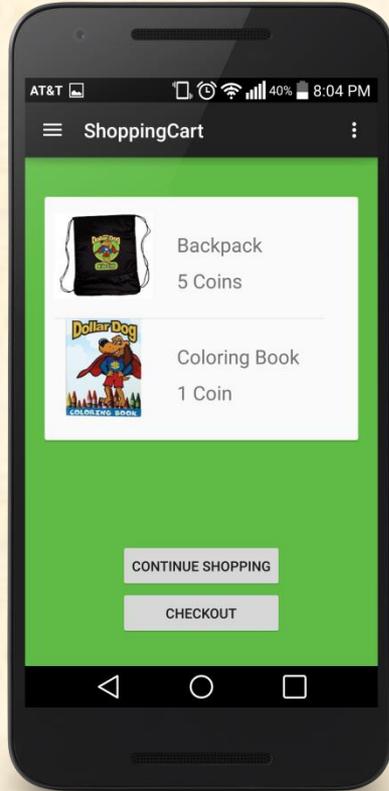
Team MSUFCU Alpha Presentation

Mobile Login & Item Catalog



Team MSUFCU Alpha Presentation

Shopping Cart & Confirmation

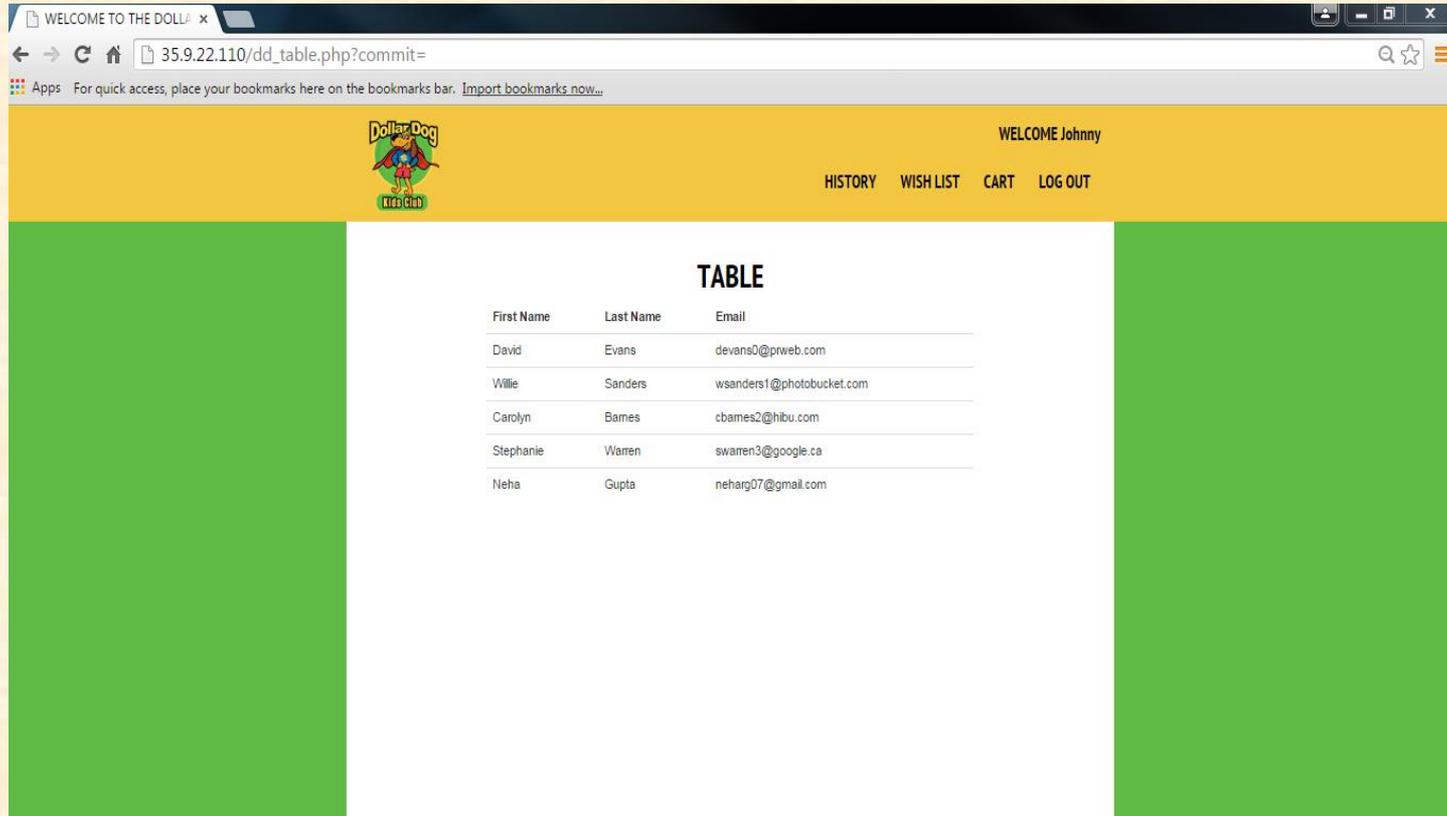




Team MSUFCU
Alpha Presentation

Team MSUFCU Alpha Presentation

Admin Website User Table



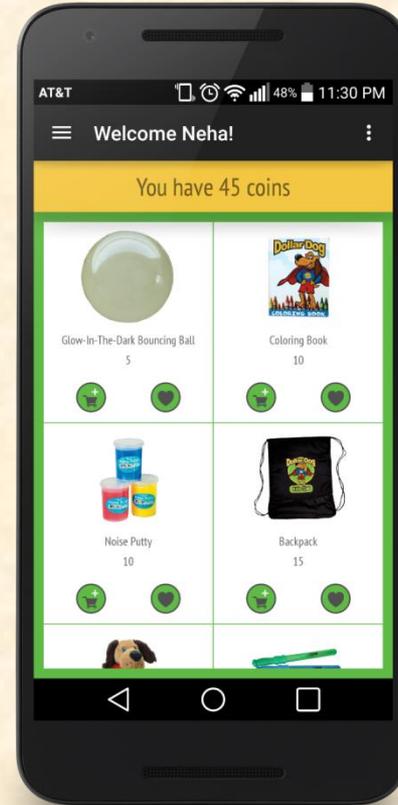
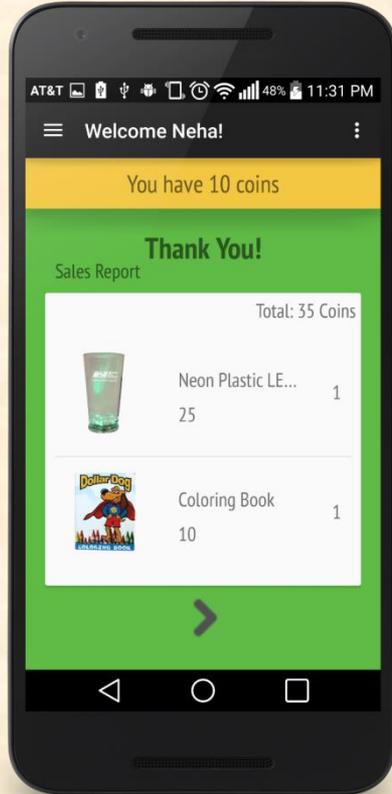
The screenshot shows a web browser window with the address bar displaying "35.9.22.110/dd_table.php?commit=". The page features a yellow header with the "Dollar Dog Kids Club" logo on the left and a "WELCOME Johnny" message on the right. Below the logo are navigation links for "HISTORY", "WISH LIST", "CART", and "LOG OUT". The main content area is white and contains a table titled "TABLE" with three columns: "First Name", "Last Name", and "Email". The table lists five users: David Evans, Willie Sanders, Carolyn Barnes, Stephanie Warren, and Neha Gupta, each with their respective email addresses.

First Name	Last Name	Email
David	Evans	devans0@prweb.com
Willie	Sanders	wsanders1@photobucket.com
Carolyn	Barnes	cbarnes2@hibu.com
Stephanie	Warren	swaren3@google.ca
Neha	Gupta	neharg07@gmail.com



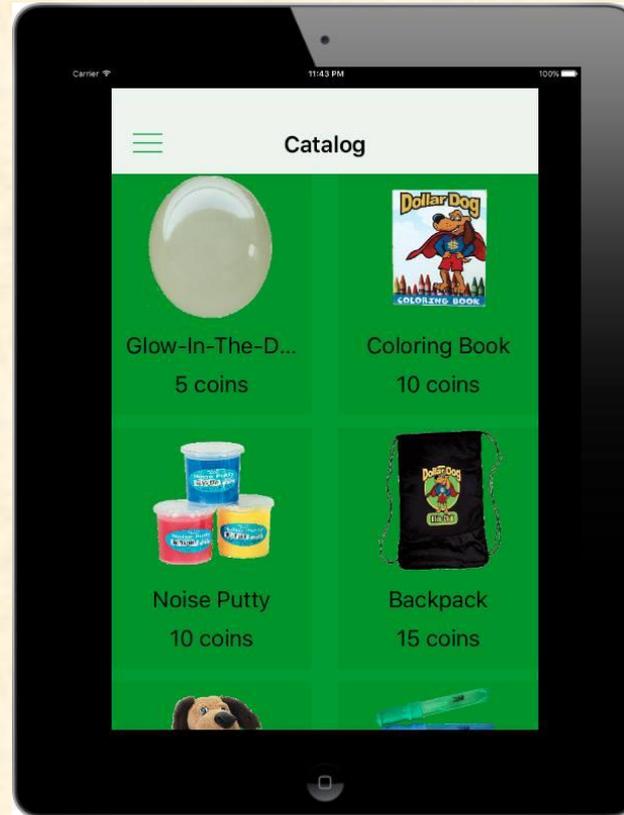
Team MSUFCU Beta Presentation

Android Purchase and Catalog



Team MSUFCU Beta Presentation

iPad Catalog



The Capstone Experience





Team MSUFCU Beta Presentation

Team MSUFCU Beta Presentation

User Item Page: Web

35.9.22.110/dd_item.php?item_id.x=132&item_id.y=136&item_id=9

Dollar Dog Kids Club

Welcome, Neha
You have 200 coins

HISTORY WISH LIST CART LOG OUT

XL Bubble Wand

20 Coins

In Stock

Quantity

ADD TO CART

ADD TO WISHLIST

CONTINUE SHOPPING

Make extra large bubbles with this extra large bubble wand! Bubble wands are 14.5 inches long and are available in green, blue, red, and yellow.

Search the web and Windows

12:15 AM
11/16/2015



Team MSUFCU
Design Day

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Team Quicken Loans

Department of Computer Science and Engineering
Michigan State University

Fall 2015



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

Quicken[®] Loans[®]
Engineered to **AmazeSM**

Quicken Loans
Engineered to Amaze

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[Calculators](#)

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HOME BUY.
REFI.
POWER.**

START HERE

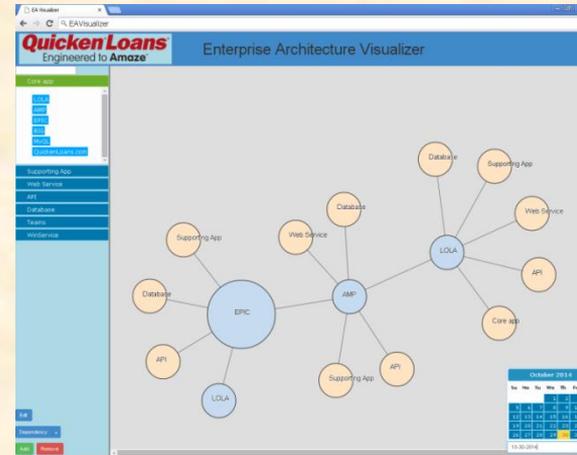
Purchase

Refinance

Team Quicken Loans Project Overview

Enterprise Roadmap Tool

- Functionalities
 - Visual Computer Systems Enterprise Road Mapping Tool
 - For Senior Leadership
 - To Show Future
 - Major Computer System Changes
 - New Application Development
 - Replacing Word Documents
- Features
 - Model Initiatives
 - High Level Features
 - Business Value
 - Size
 - Start Date
 - Dependencies
 - Show Interdependencies and Roadmaps
 - Provide Search Capabilities
 - Generate Reports
 - Roadmaps for Initiatives
 - Reports on Business Values
- Technologies
 - .NET / Web Development
 - SQL Server
 - UI / UX Expertise



Quicken Loans
Engineered to **Amaze**[™]
Detroit, Michigan

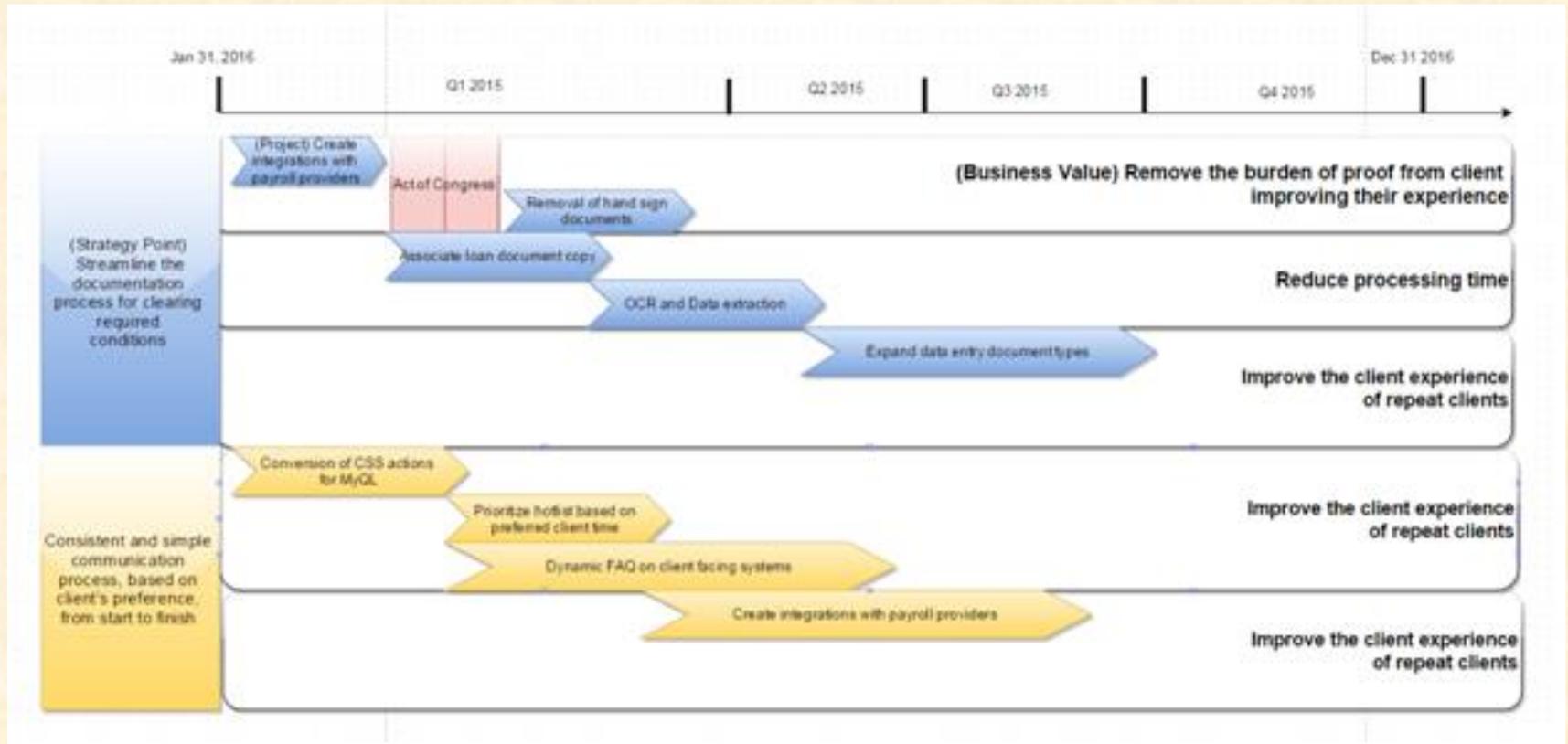


Team Quicken Loans

Brian Chivers, Chase Grove, Emily Klopfer, Eric Nartker, Ben Toth

Team Quicken Loans Project Plan Presentation

Screen Mockup

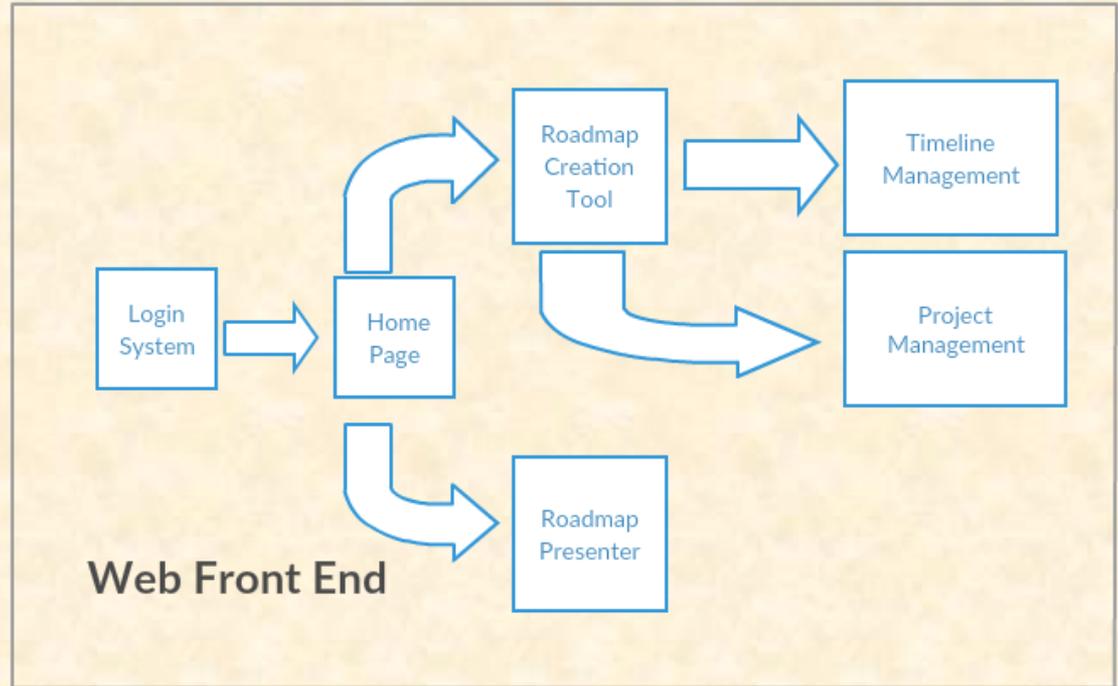




Team Quicken Loans
Project Plan Presentation

Team Quicken Loans Project Plan Presentation

Architecture Diagram

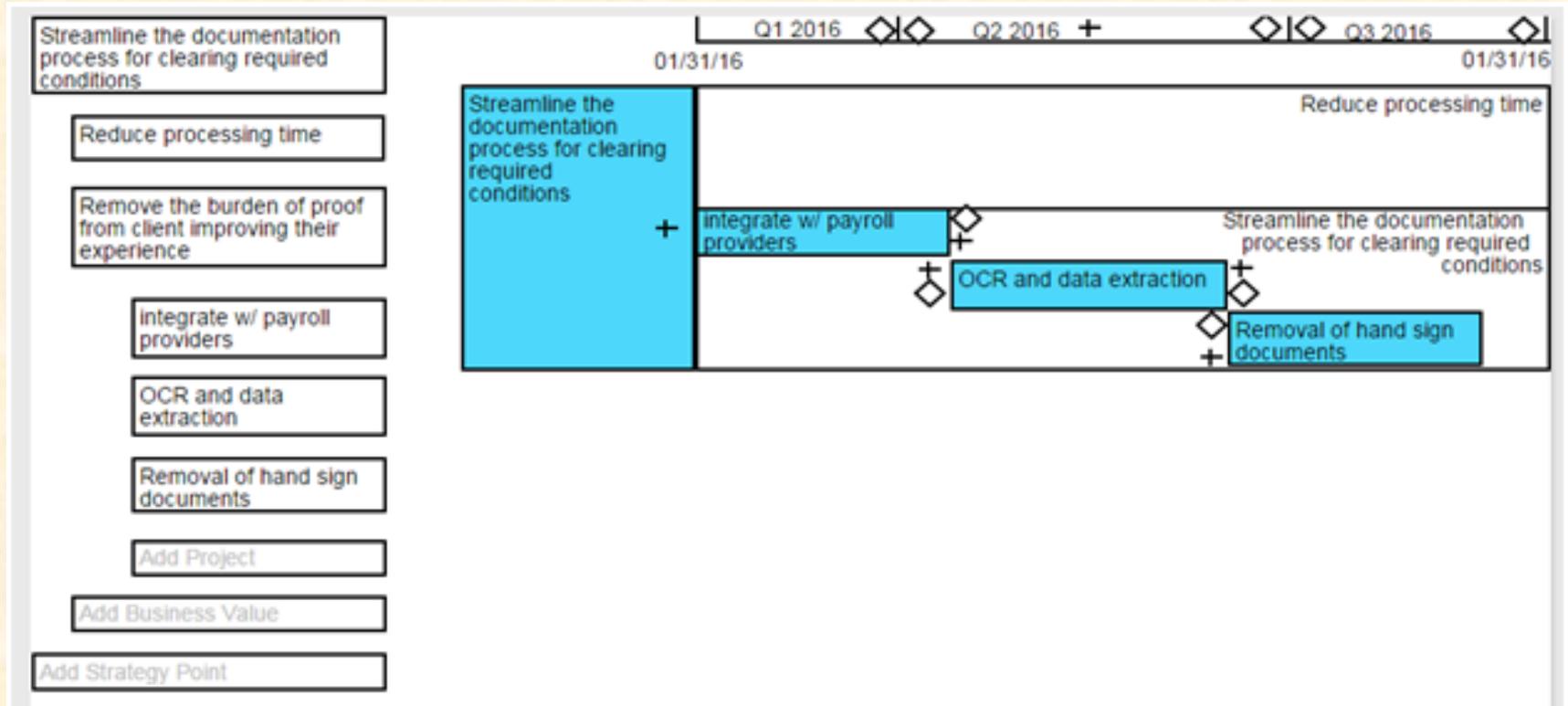




Team Quicken Loans
Project Plan Presentation

Team Quicken Loans Project Plan Presentation

Screen Mockup

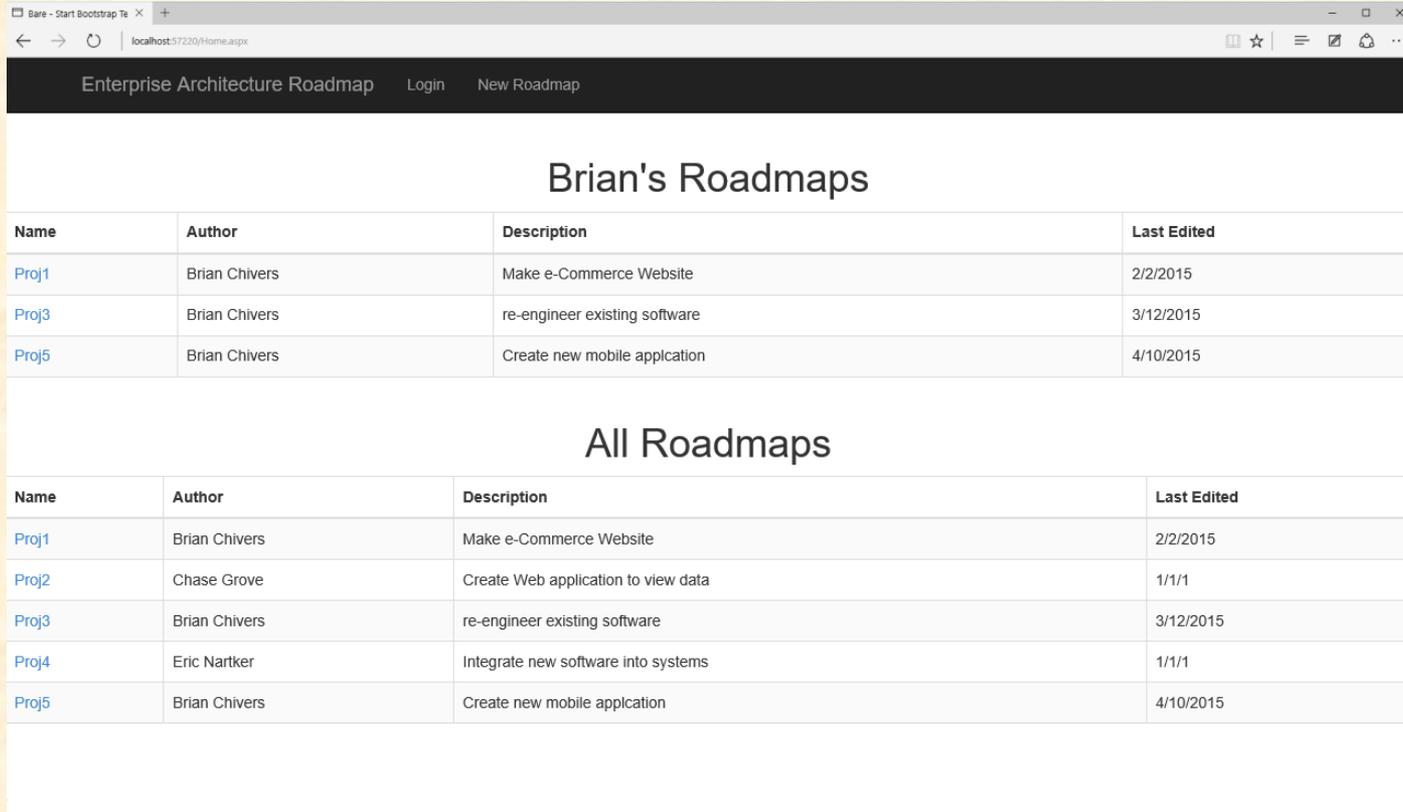




Team Quicken Loans
Alpha Presentation

Team Quicken Loans Alpha Presentation

Home Page



The screenshot shows a web browser window with the address bar displaying 'localhost:57220/Home.aspx'. The page has a dark navigation bar with the text 'Enterprise Architecture Roadmap' and links for 'Login' and 'New Roadmap'. The main content area features a heading 'Brian's Roadmaps' above a table with three rows. Below this is another heading 'All Roadmaps' above a larger table with five rows. Both tables have columns for Name, Author, Description, and Last Edited.

Name	Author	Description	Last Edited
Proj1	Brian Chivers	Make e-Commerce Website	2/2/2015
Proj3	Brian Chivers	re-engineer existing software	3/12/2015
Proj5	Brian Chivers	Create new mobile application	4/10/2015

Name	Author	Description	Last Edited
Proj1	Brian Chivers	Make e-Commerce Website	2/2/2015
Proj2	Chase Grove	Create Web application to view data	1/1/1
Proj3	Brian Chivers	re-engineer existing software	3/12/2015
Proj4	Eric Nartker	Integrate new software into systems	1/1/1
Proj5	Brian Chivers	Create new mobile application	4/10/2015



Team Quicken Loans Alpha Presentation

Roadmaps Page





Team Quicken Loans Alpha Presentation

Team Quicken Loans Alpha Presentation

Roadmaps Modal Page

The screenshot shows a web browser window with the URL `localhost:57220/Roadmap.aspx`. The main content area displays a 'Roadmap' page with a sidebar on the left containing various menu items such as 'Display Future Development', 'Easy to understand by everyone', 'Add Style', 'Add Project', 'Add Business Value', 'Understandable Presentation', 'Clear Intentions', 'Fix Table', 'Display Clear Data', 'Better Analytics', and 'Add Strategy Point'. The main content area features a 'Roadmap' title, 'Toggle Menu' and 'Modal' buttons, and three red rectangular blocks representing roadmap items. An 'Add Style' modal is open in the center, containing the following sections:

- Description**: A text area containing the text: "The group will need to go through and develop all of the CSS files to make the visual friendly. Also color code the project to the Quicken Loans Standard."
- Dependencies**: A text input field containing "Fix the Table" and an "Add Input" button. Below it is a dropdown menu with "Project1" selected and an "Add Selection" button.
- Risks**: A text area containing the text: "The visualization needs to be readable by the recipients of the roadmaps."
- Links**: A text input field and an "Add Link" button.

At the bottom right of the modal is a "Save" button. The background of the application shows a green rectangular block on the right side with the text "Easy to understand by everyone", "Clear Intentions", and "Better Analytics".

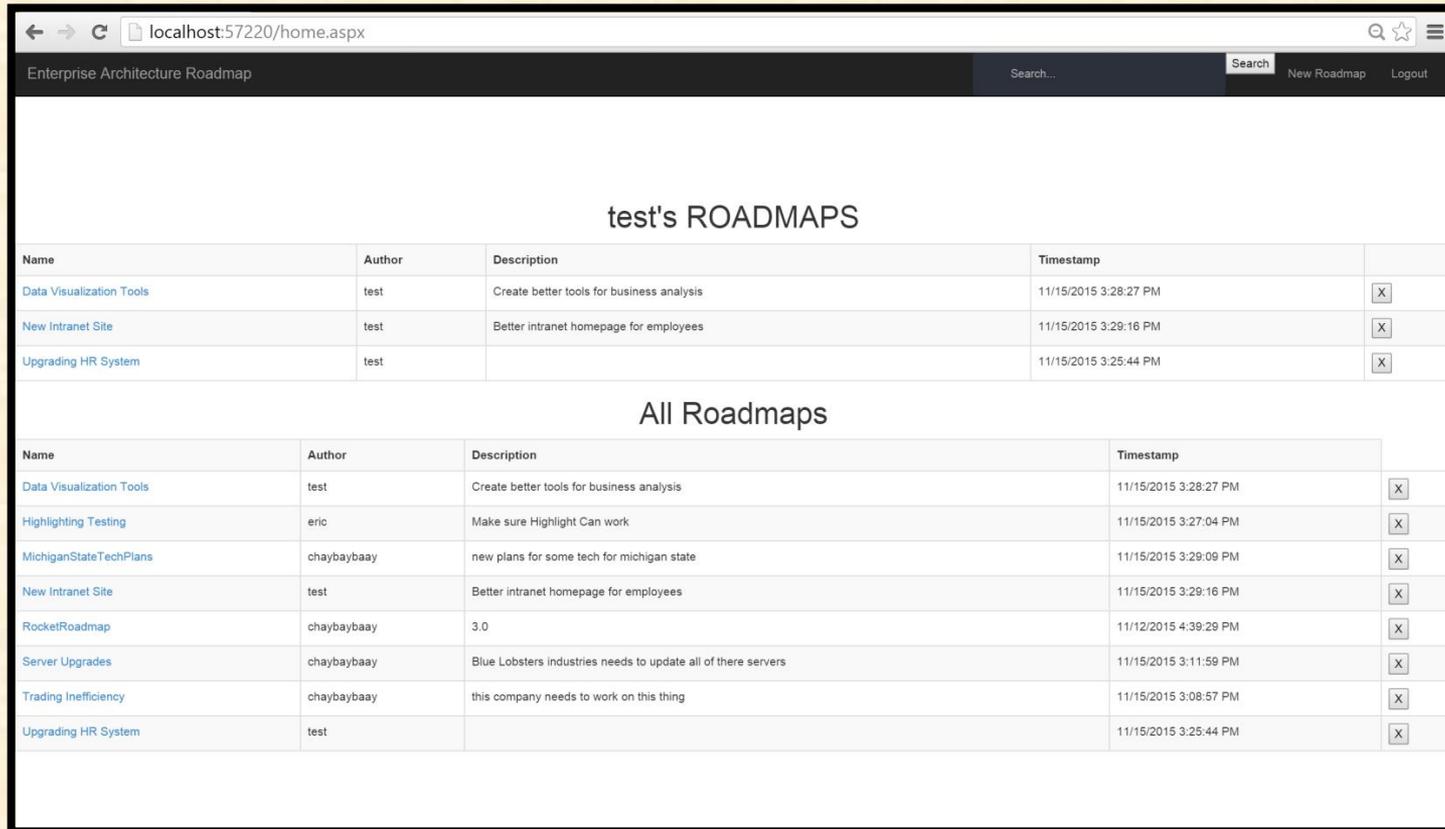




Team Quicken Loans Beta Presentation

Team Quicken Loans Beta Presentation

Home Roadmaps Page



The screenshot shows a web browser window with the URL localhost:57220/home.aspx. The page title is 'Enterprise Architecture Roadmap'. The main content area displays 'test's ROADMAPS' and a table with three columns: Name, Author, Description, and Timestamp. Below this, there is a section for 'All Roadmaps' with a larger table containing the same columns. Each row in both tables has a small 'X' icon in the rightmost cell, likely for deleting or editing the roadmap entry.

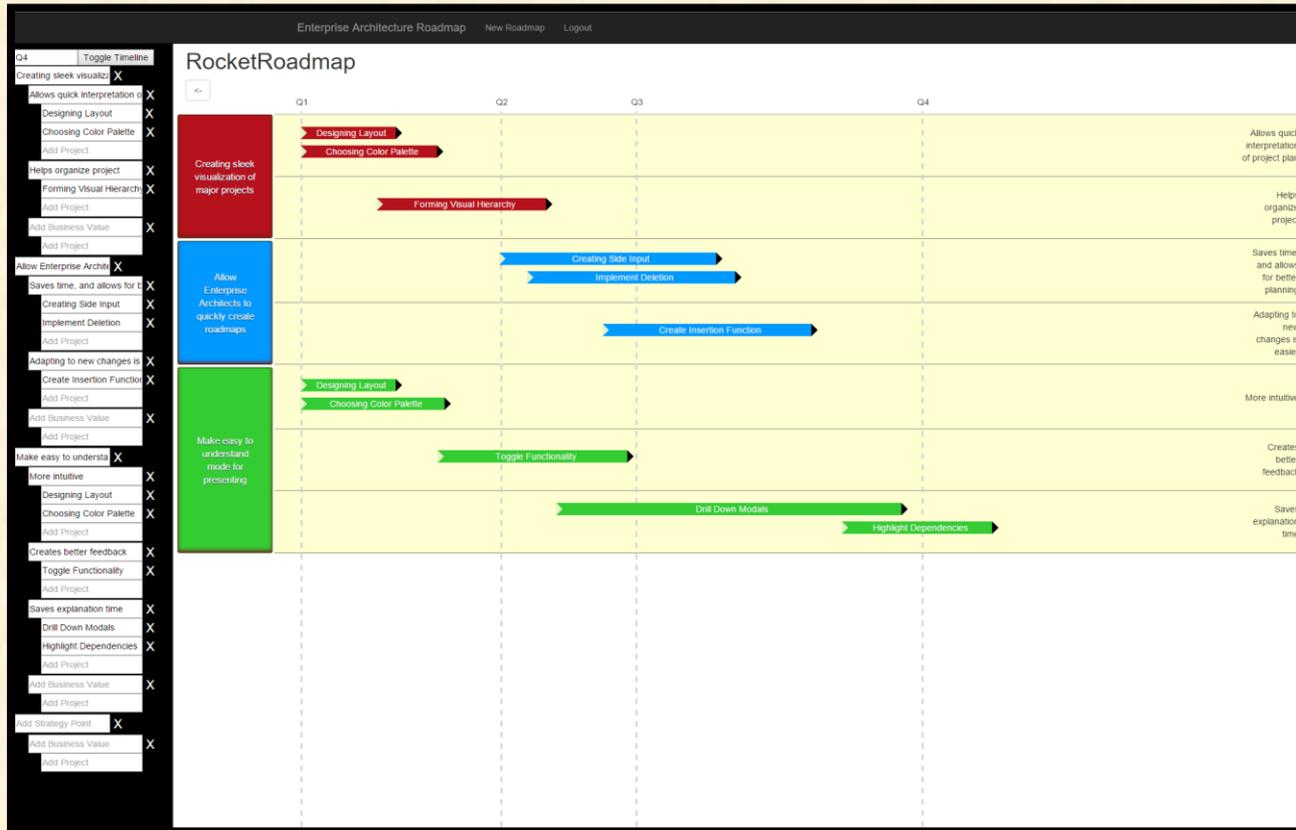
Name	Author	Description	Timestamp	
Data Visualization Tools	test	Create better tools for business analysis	11/15/2015 3:28:27 PM	X
New Intranet Site	test	Better intranet homepage for employees	11/15/2015 3:29:16 PM	X
Upgrading HR System	test		11/15/2015 3:25:44 PM	X

Name	Author	Description	Timestamp	
Data Visualization Tools	test	Create better tools for business analysis	11/15/2015 3:28:27 PM	X
Highlighting Testing	eric	Make sure Highlight Can work	11/15/2015 3:27:04 PM	X
MichiganStateTechPlans	chaybaybaay	new plans for some tech for michigan state	11/15/2015 3:29:09 PM	X
New Intranet Site	test	Better intranet homepage for employees	11/15/2015 3:29:16 PM	X
RocketRoadmap	chaybaybaay	3.0	11/12/2015 4:39:29 PM	X
Server Upgrades	chaybaybaay	Blue Lobsters industries needs to update all of these servers	11/15/2015 3:11:59 PM	X
Trading Inefficiency	chaybaybaay	this company needs to work on this thing	11/15/2015 3:08:57 PM	X
Upgrading HR System	test		11/15/2015 3:25:44 PM	X



Team Quicken Loans Beta Presentation

Completed Roadmap





Team Quicken Loans Beta Presentation

Team Quicken Loans Beta Presentation

Roadmap Modal Information

The screenshot displays the RocketRoadmap Enterprise Architecture Roadmap interface. The main view is a Gantt chart with four quarters (Q1, Q2, Q3, Q4) on the x-axis. Three project tracks are visible: a red track for 'Creating sleek visualization of major projects', a blue track for 'Allow Enterprise Architects to quickly create markups', and a green track for 'Make easy to understand road map for presenting'. A modal titled 'Creating Side Input' is open in the center, containing sections for Description, Dependencies, Risks, and Links. The modal has a 'Save' button at the bottom right. On the left side of the interface, there is a list of tasks with checkboxes, including 'Toggle Timeline', 'Creating sleek visualization', 'Allow quick interpretation of project plan', 'Designing Layout', 'Choosing Color Palette', 'Helps organize project', 'Forming Visual Hierarchy', 'Business Value', 'Allow Enterprise Architects', 'Saves time, and allows for better planning', 'Creating Side Input', 'Implement Deletion', 'Adapting to new changes is easier', 'Create Insertion Function', 'Add Business Value', 'More intuitive', 'Designing Layout', 'Choosing Color Palette', 'Creates better feedback', 'Toggle Functionality', 'Saves explanation time', 'Drill Down Modals', 'Highlight Dependencies', 'Add Business Value', 'Add Strategy Point', and 'Add Business Value'. The bottom of the screen shows a Windows taskbar with the search bar and system tray icons.





Team Quicken Loans
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The Capstone Experience

Team Spectrum Health

Department of Computer Science and Engineering
Michigan State University

Fall 2015



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SPECTRUM HEALTH





Search [Magnifying glass icon]

Advanced Search

- Home
- Who We Are
- Patients & Visitors
- Medical Services
- Quality
- Locations
- Online Services
- Health Information
- Find a Physician

Among the Nation's Best

Spectrum Health ranked nationally in pulmonology, high performing in eight other specialties



Award

Free Sports Medicine Seminars

One call. New hope.

MyHealth

Manage your health information from a secure online account.

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[Looking for MySpectrum?](#)

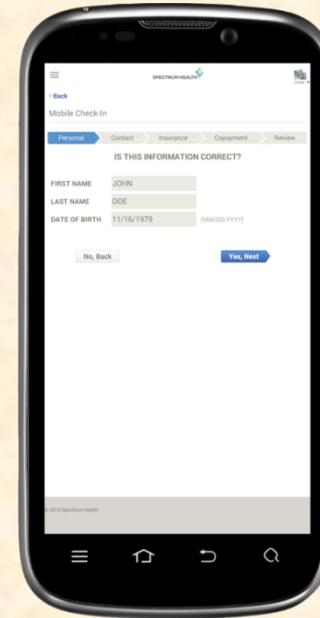
Locations

Select Type of Location [Dropdown arrow]

Team Spectrum Health Project Overview

Patient Service Delivery Planning

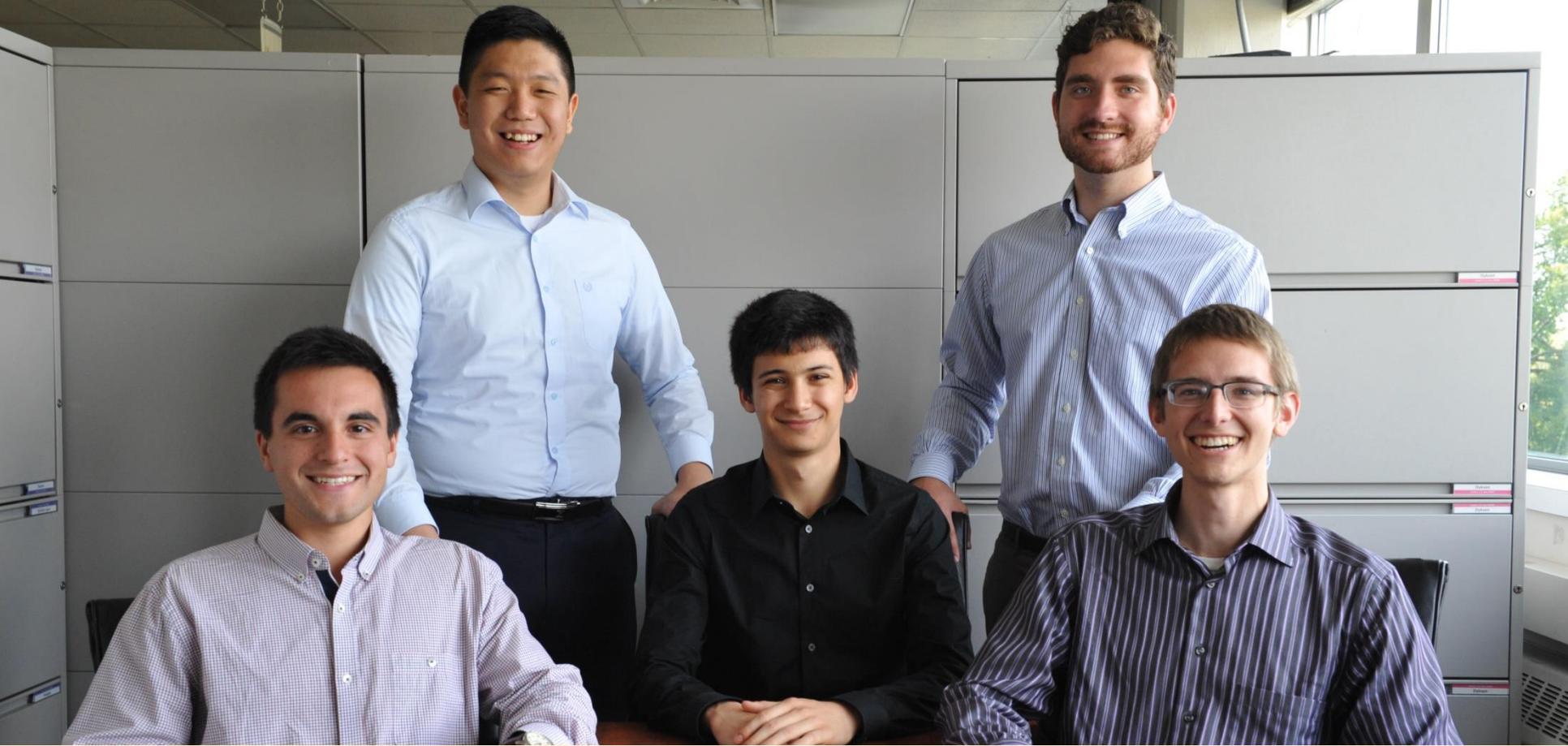
- Functionalities
 - Optimize Patient Care Service Delivery
 - For Patients By Identifying Facilities with Shortest Wait Times
 - For Spectrum Health By Predicting Staffing Needs In Advance
- Features
 - Gather and Integrate Data from Multiple Sources
 - Spectrum Health Census Web Service
 - Center for Disease Control
 - Weather Services
 - Track Patient Loads at Facilities
 - Build Predictive Model of Staffing Two Weeks in Advance
 - Provide
 - Mobile App for Patients
 - Web App for Spectrum Health
- Technologies
 - CSS / HTML / JavaScript / AngularJS
 - ASP.net Web API (C#)
 - Microsoft IIS 7.5
 - NoSQL / Cassandra
 - RESTful Web Services
 - Browser-Based Visualization



SPECTRUM HEALTH

Grand Rapids, Michigan



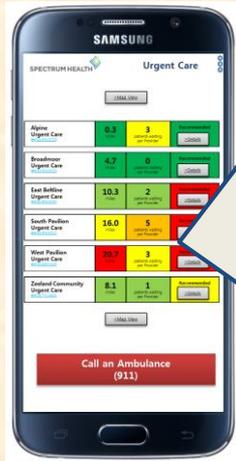


Team Spectrum Health

Jim Torres, Justin Oh, Josh Curl, Chaz Bean, Luke Stanton

Team Spectrum Health Project Plan Presentation

Screen Mockup



SPECTRUM HEALTH **Urgent Care**

>Map View

Alpine Urgent Care 916.391.8222	0.3 miles	3 patients waiting per Provider	Recommended >Details
Broadmoor Urgent Care 916.391.8020	4.7 miles	0 patients waiting per Provider	Recommended >Details
East Beltline Urgent Care 916.361.6288	10.3 miles	2 patients waiting per Provider	Recommended >Details
South Pavilion Urgent Care 916.391.8242	16.0 miles	5 patients waiting per Provider	Recommended >Details
West Pavilion Urgent Care 916.458.5100	20.7 miles	3 patients waiting per Provider	Recommended >Details
Zeeland Community Urgent Care 916.772.8684	8.1 miles	1 patients waiting per Provider	Recommended >Details

>Map View

Call an Ambulance (911)

SPECTRUM HEALTH **Urgent Care**

>View in Table

A map view of the urgent care locations in the Grand Rapids area. A blue box highlights the 'South Pavilion Urgent Care' location. The map shows major roads like I-196 and I-96, and surrounding areas like Kentwood, Walker, and Plainfield Charter Township.

>View in Table

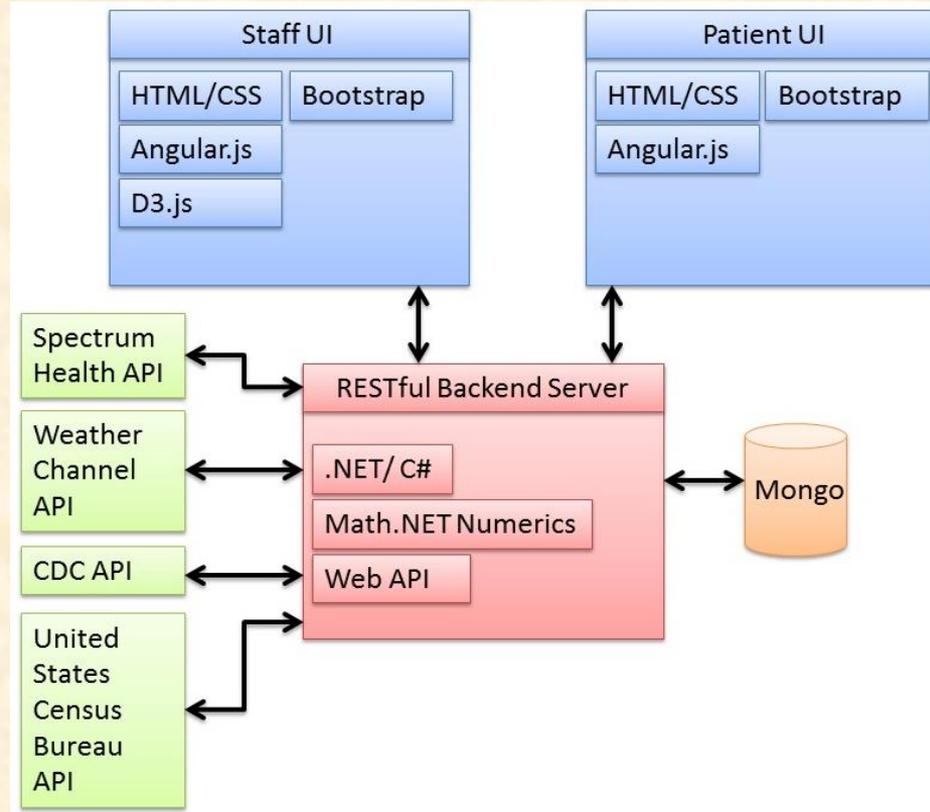
Call an Ambulance (911)



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 Mockup





Team Spectrum Health Alpha Presentation

Team Spectrum Health Alpha Presentation

The Patient Interface

The screenshot displays the 'Map View' of the Spectrum Health patient interface. It features a map with a 'Map View' button and a 'Urgent Care' button. Below the map, there are two sections: 'Recommended' and 'Nearest'. The 'Recommended' section lists 'South Pavilion Urgent Care' with a phone number (616.391.8242), 4 miles away, and 0 patients waiting. The 'Nearest' section lists 'Zeeland Community Hospital Urgent Care' with a phone number (616.773.4644), 0.4 miles away, and 11 patients waiting. To the right, there is a photo of the 'South Pavilion Urgent Care' entrance and a bar chart showing patient volume for Monday through Thursday. The bar chart shows 19 patients on Monday, 20 on Tuesday, 21 on Wednesday, and 22 on Thursday. The bar chart also shows patient volume by time slot: 8:00 am (5), 9:00 am (4), 10:00 am (7), 11:00 am (2), and Noon (1).

Map View

Urgent Care

Recommended

South Pavilion Urgent Care
616.391.8242
4 miles away
0 PATIENTS WAITING FOR PROVIDER

Nearest

Zeeland Community Hospital Urgent Care
616.773.4644
0.4 miles away
11 PATIENTS WAITING

South Pavilion Urgent Care
Entrance

Monday Tuesday Wednesday Thursday
19 20 21 22

8:00 am 5
9:00 am 4
10:00 am 7
11:00 am 2
Noon 1



Team Spectrum Health Alpha Presentation

The Patient Interface

The diagram illustrates the patient interface for finding urgent care. It shows a smartphone displaying a list of recommended and nearest urgent care centers. A larger, detailed view of the app interface is shown on the right, with callouts for 'Show all' and 'Hide' buttons.

Recommended

- South Pavilion Urgent Care
616.391.8242
4 miles away
0 patients waiting per provider

Nearest

- Zeeland Community Hospital Urgent Care
616.772.4644
0.4 miles away
11 patients waiting per provider

Show all

Hide

South Pavilion Urgent Care
616.391.8242
4 miles away
0 patients waiting per provider

Zeeland Community Hospital Urgent Care
616.772.4644
0.4 miles away
11 patients waiting per provider

Broadmoor Urgent Care
616.391.8020
4.7 miles away





Team Spectrum Health
Alpha Presentation

Team Spectrum Health Alpha Presentation

Spectrum Health Interface

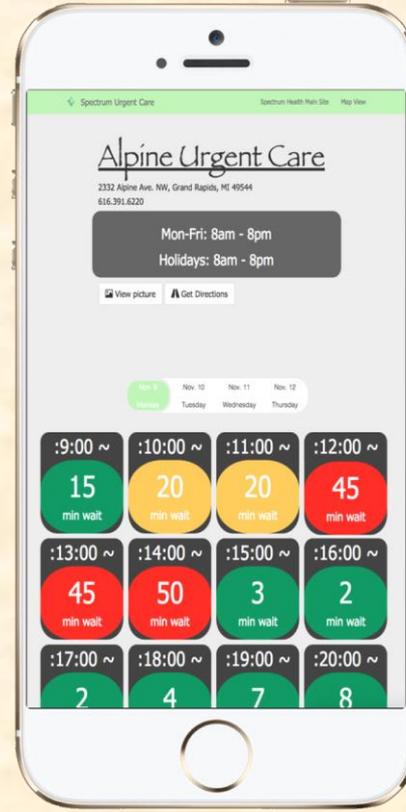
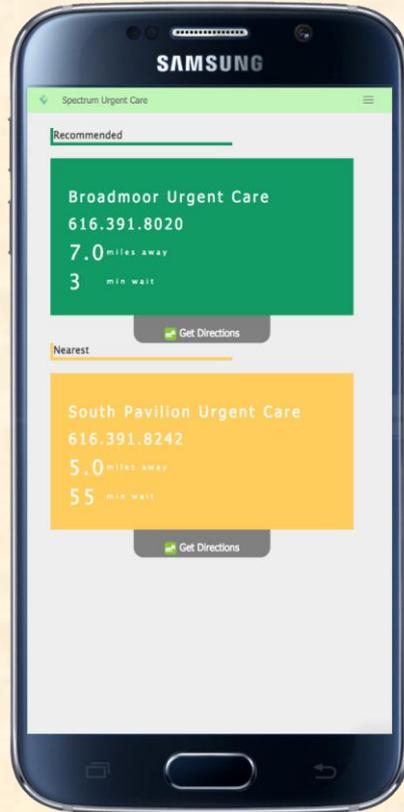




Team Spectrum Health Beta Presentation

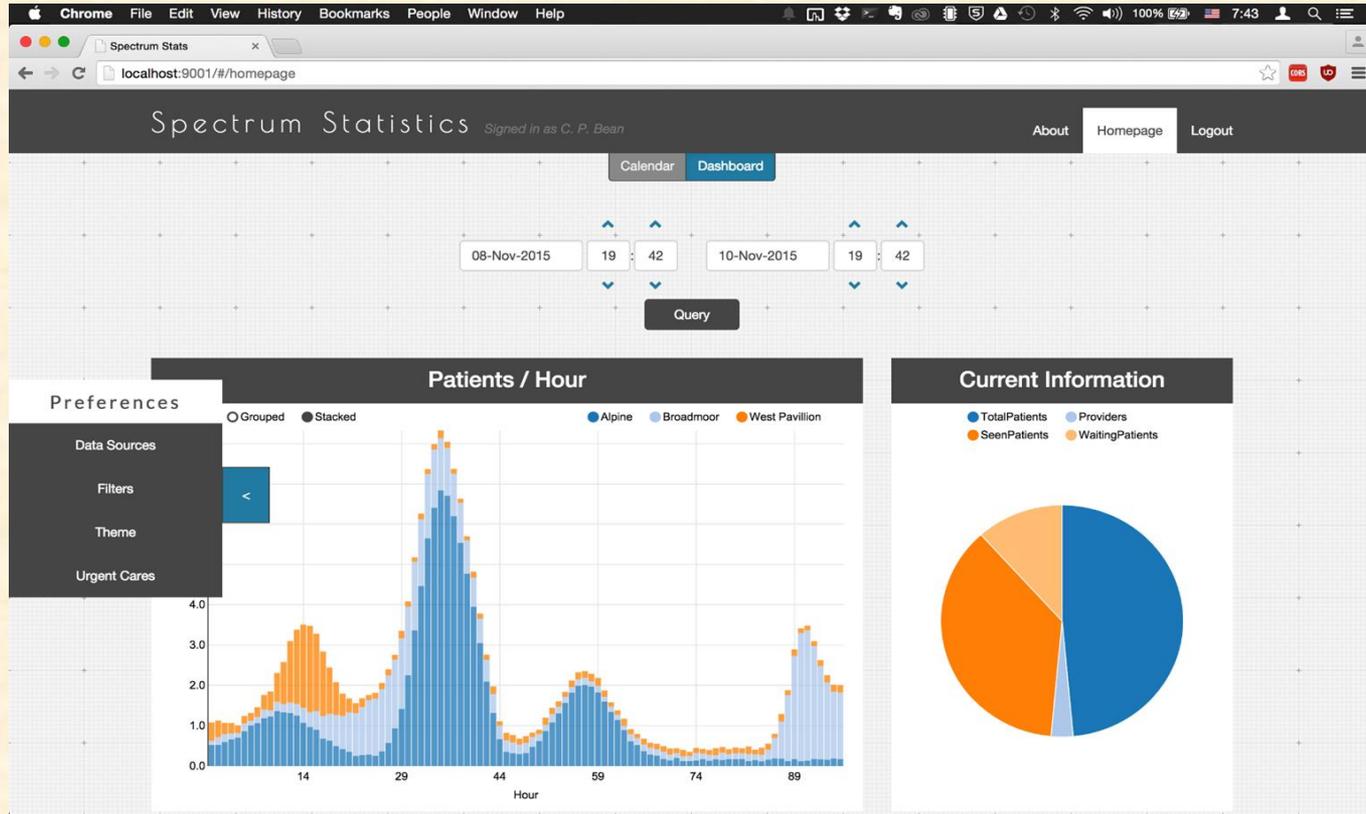
Team Spectrum Health Beta Presentation

Patient Mobile Apps



Team Spectrum Health Beta Presentation

Staff Web App



The Capstone Experience





Team Spectrum Health Beta Presentation

Team Spectrum Health Beta Presentation

Staff Web App

The screenshot displays the Spectrum Statistics Staff Web App interface. At the top, the browser shows 'Chrome' and the URL 'localhost:9001/#/homepage'. The app header includes 'Spectrum Statistics' with a user profile 'Signed in as C. P. Bean' and navigation links for 'About', 'Homepage', and 'Logout'. Below the header are tabs for 'Calendar' and 'Dashboard'. The main content area features a calendar for the month of November. A 'Filters' sidebar is open on the left, showing three settings: 'Provider/Patient Ratio' set to .2, 'Total Patient Threshold' set to 5, and 'Waiting Threshold' set to 4. The calendar grid shows dates from 1 to 14. The 1st is marked as 'Predicted'. The 2nd has a note: '8am-4pm: There is expected to be a large number of patients.' The 4th has a note: '1-2pm: Predicted understaffing.' The 5th has two notes: '3-5pm:' and '2-4pm: There is expected to be a large number of patients.' The 6th has two notes: '1-7pm: There is expected to be a large number of patients.' and '2-4pm: There is expected to be a large number of patients.'

The Capstone Experience





Team Spectrum Health
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Team Symantec

Department of Computer Science and Engineering
Michigan State University

Fall 2015



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Symantec

Stagefright vulnerabilities pose serious threat to Android users. Learn more. 

Cybercrime: New Tricks of the Trade

Know where threats are coming from with the Symantec 2015 Internet Security Threat Report

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ISTR20

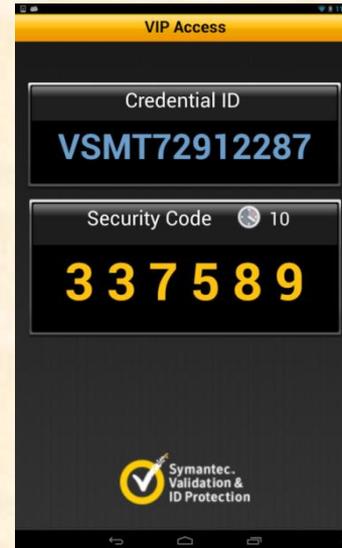
INTERNET SECURITY THREAT REPORT



Team Symantec Project Overview

Integrated Silent Authentication via Symantec VIP

- Functionalities
 - Embed Two Factor Authentication
 - Into Native Mobile Apps
 - Sending Six-Digit Authentication Code
 - Automatically
 - “Silently”
- Features
 - Require User to Enter Only Userid and Password
 - Send Six-Digit “Second” Factor
 - Without Direct User Interaction
 - Using Symantec VIP SDK
 - Demonstrate on Both Android and iPhone
- Technologies
 - Google Android Tablets and Phones / Java
 - Apple iPads and iPhones (iOS) / Swift or Objective-C
 - Symantec VIP



Mountain View, California



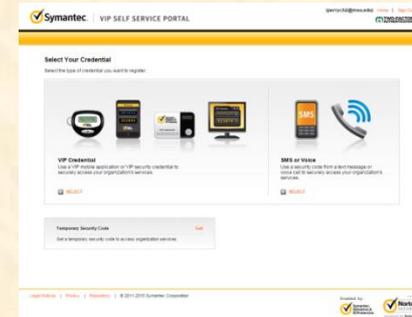
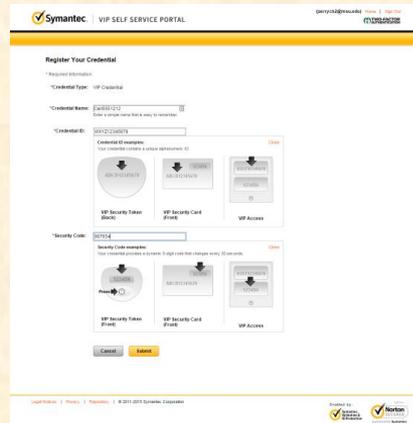
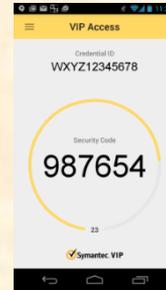
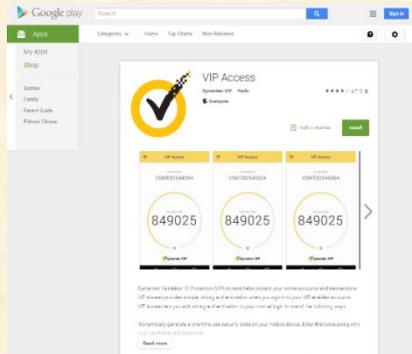


Team Symantec

Chris Perry, James Mariani, Tyler Erskine, Scott Binter, Dan Parlin

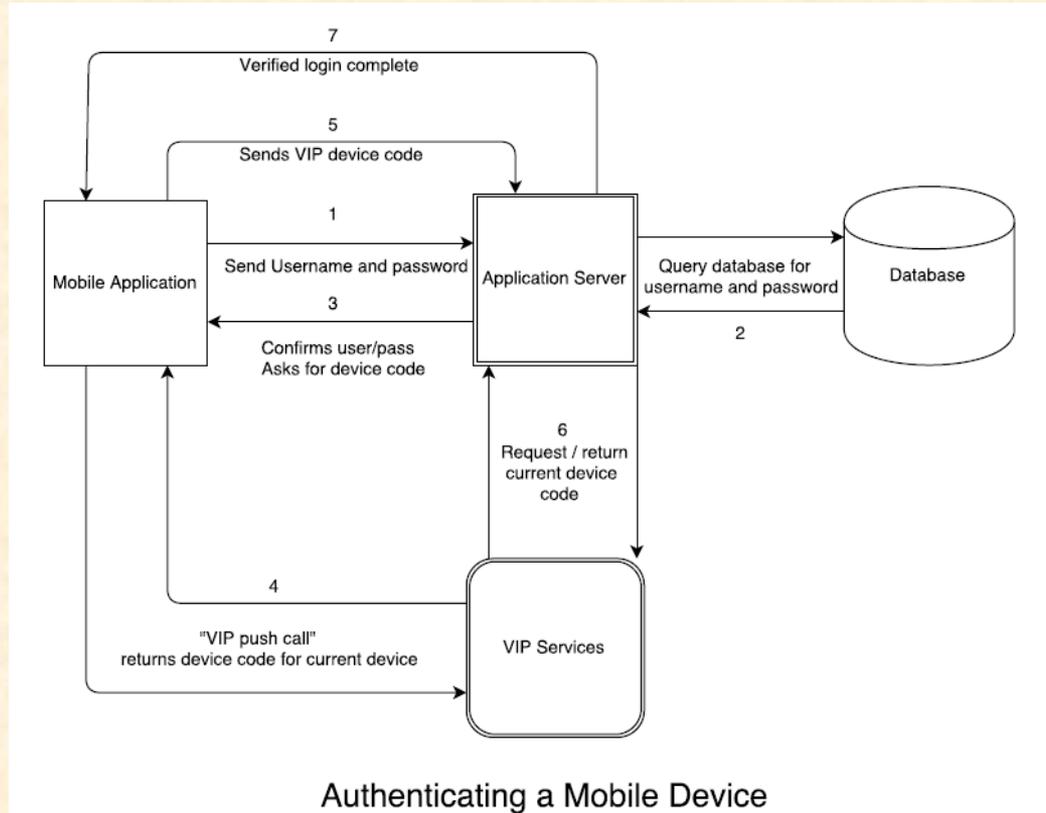
Team Symantec Project Plan Presentation

Screen Mockup





Team Symantec Project Plan Presentation



Authenticating a Mobile Device

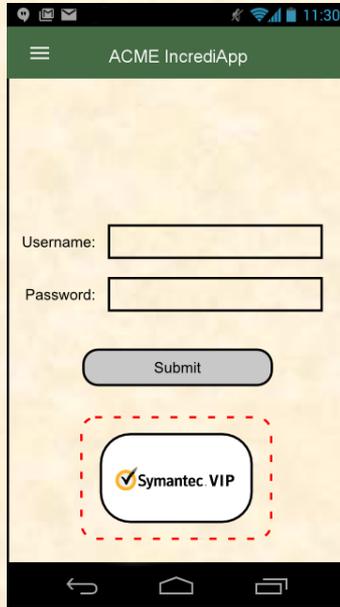




Team Symantec
Project Plan Presentation

Team Symantec Project Plan Presentation

Screen Mockup

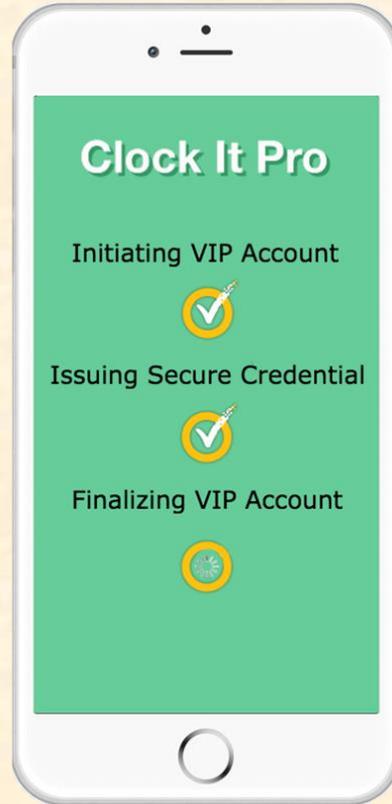




Team Symantec Alpha Presentation

Team Symantec Alpha Presentation

Initiating VIP Account



Team Symantec Alpha Presentation

Login Page



The Capstone Experience

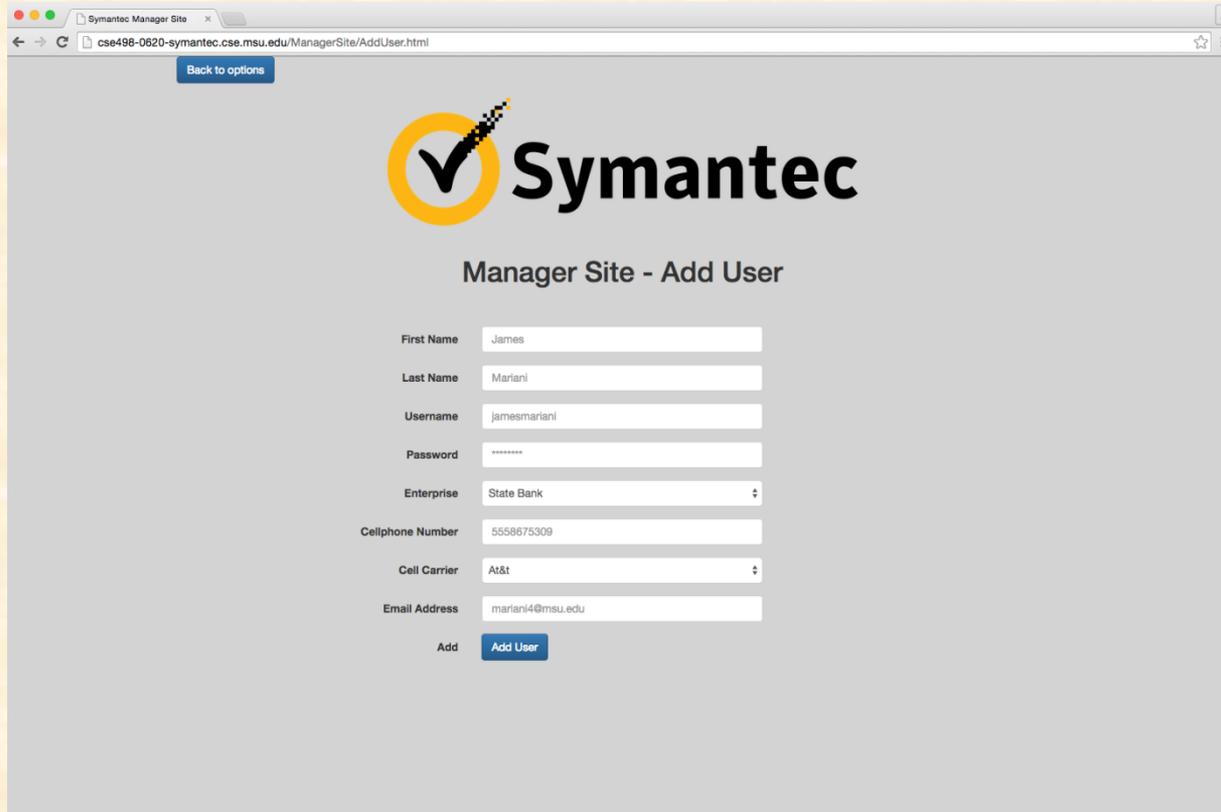




Team Symantec Alpha Presentation

Team Symantec Alpha Presentation

Adding Users to VIP



The screenshot shows a web browser window with the URL `cse498-0620-symantec.cse.msu.edu/ManagerSite/AddUser.html`. The page features the Symantec logo at the top center, which consists of a yellow circle with a black checkmark and the word "Symantec" in black. Below the logo is the heading "Manager Site - Add User". The form contains the following fields:

- First Name:** James
- Last Name:** Mariani
- Username:** jamesmariani
- Password:** *****
- Enterprise:** State Bank (dropdown menu)
- Cellphone Number:** 5558675309
- Cell Carrier:** At&t (dropdown menu)
- Email Address:** mariani4@msu.edu

At the bottom of the form, there is an "Add" label and a blue "Add User" button. A "Back to options" button is located at the top left of the page content.

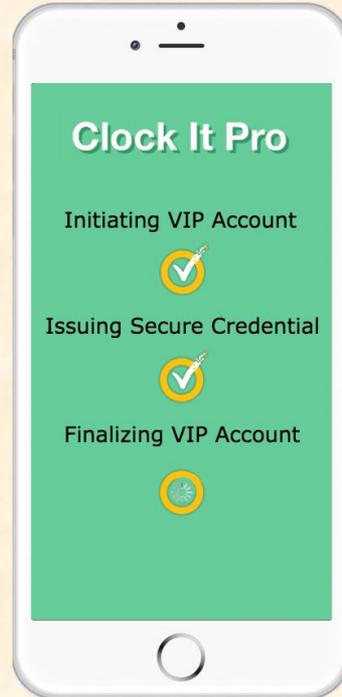




Team Symantec Beta Presentation

Team Symantec Beta Presentation

Initiating VIP Account



Team Symantec Beta Presentation

Login Page



The Capstone Experience

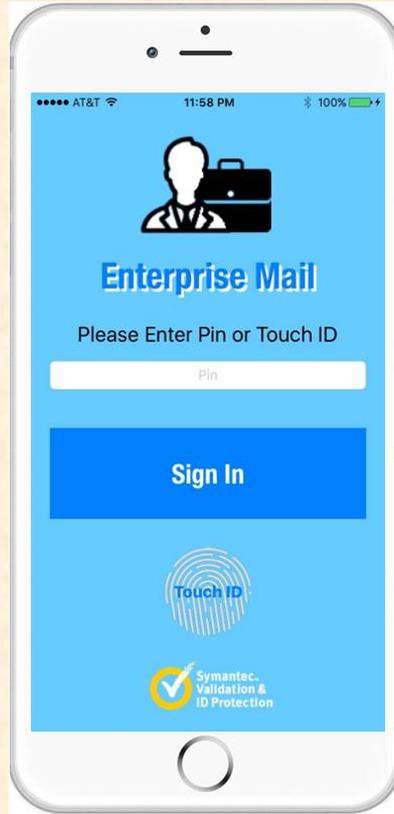




Team Symantec Beta Presentation

Team Symantec Beta Presentation

Enterprise Mail Pin Screen



MICHIGAN STATE

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The Capstone Experience

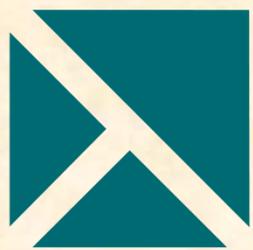
Team TechSmith

Department of Computer Science and Engineering
Michigan State University

Fall 2015



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



TechSmith®

Screen Recording & Video Editing

A powerful, yet easy-to-use screen recorder, Camtasia helps you create professional videos without having to be a video pro. Easily record your screen movements and actions, or import HD video from a camera or other source. Customize and edit content on both Mac and Windows platforms, and share your videos with viewers on nearly any device.

Team TechSmith Project Overview

Intelligent Real World Text Recognition

- Functionalities
 - Using Mobile Device (Camera)
 - Recognize Text in the Real World
 - Perform Useful Actions
 - Call a Phone Number
 - Go to a URL
 - Map a Street Address
 - Tweet a Hashtag
 - Etc.
- Features
 - Highlight Recognized Text in Camera View
 - Offer to Take Action on Recognized Text
 - Save Recognized Text in Appropriate Places
 - Use Windows 10 UWP OCR Engine API
 - Demonstrate Raspberry Pi “Reading Station”
 - Visually Impaired
 - Learning to Read
 - Store Things Seen in Cloud Backend
- Technologies
 - Windows 10 Universal Windows Platform Apps
 - Raspberry Pi
 - CSS / HTML5 / JavaScript
 - C#/.Net and XAML
 - Microsoft Azure Cloud Computing



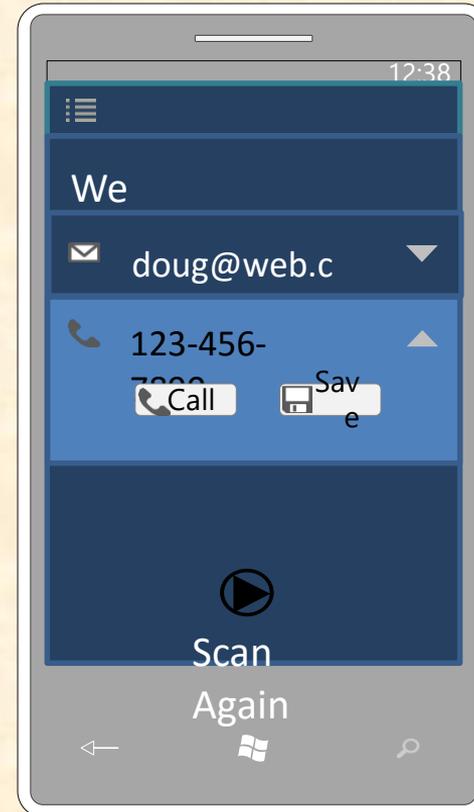
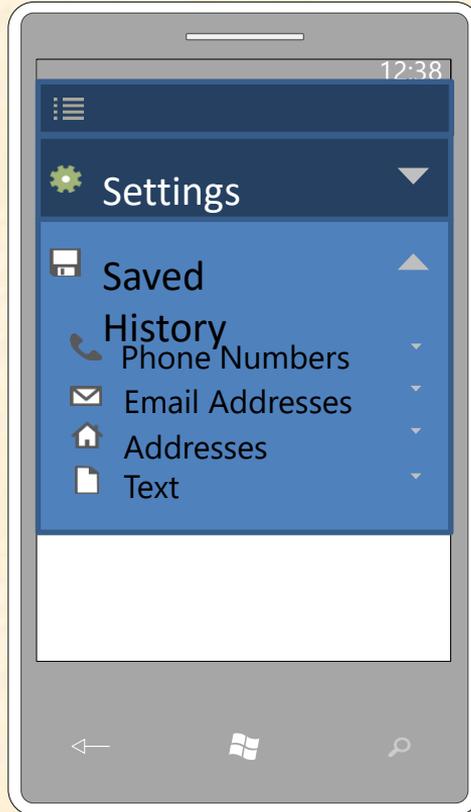


Team TechSmith

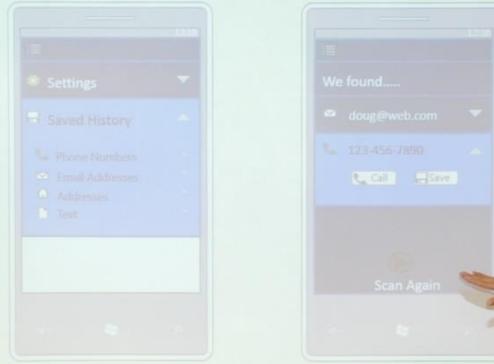
Jordyn Castor, Deb Deb, Whitney Mitchell, Max Miller, Cody Pearson

Team TechSmith Project Plan Presentation

Screen Mockup



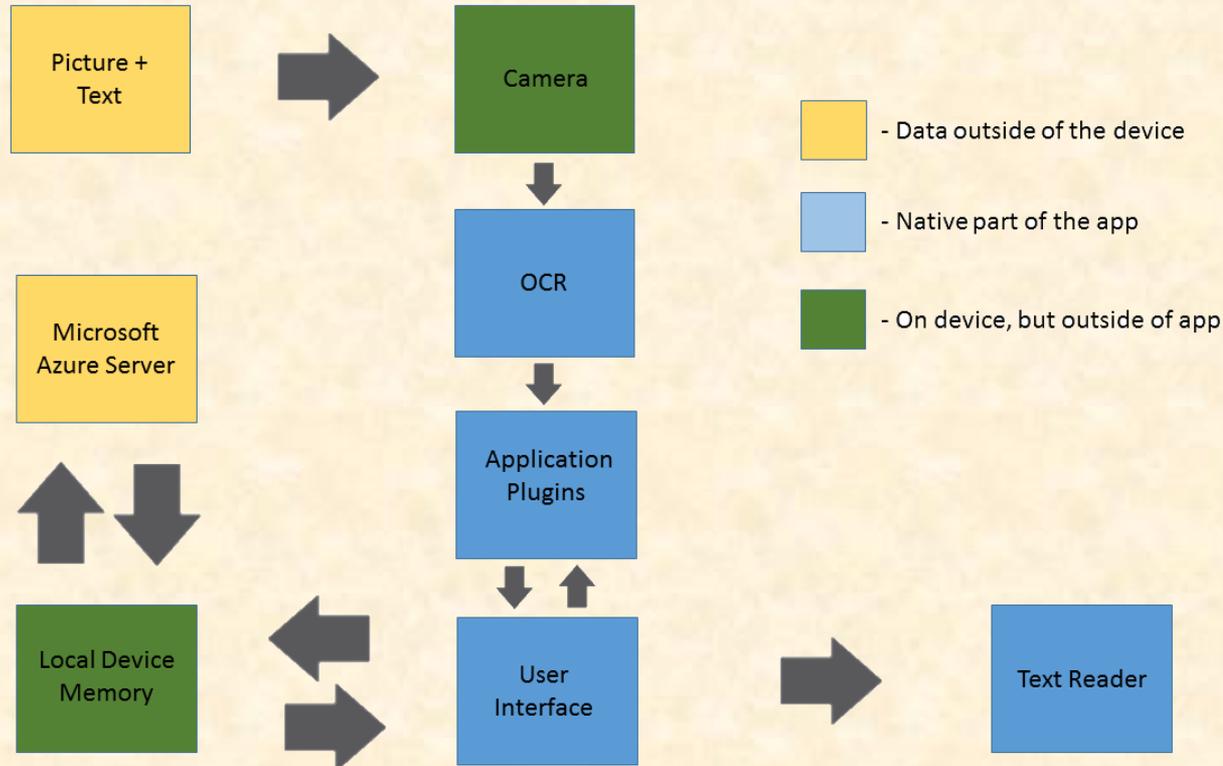
Screen Mockup: Windows Phone



Team TechSmith
Project Plan Presentation

Team TechSmith Project Plan Presentation

Architecture Diagram



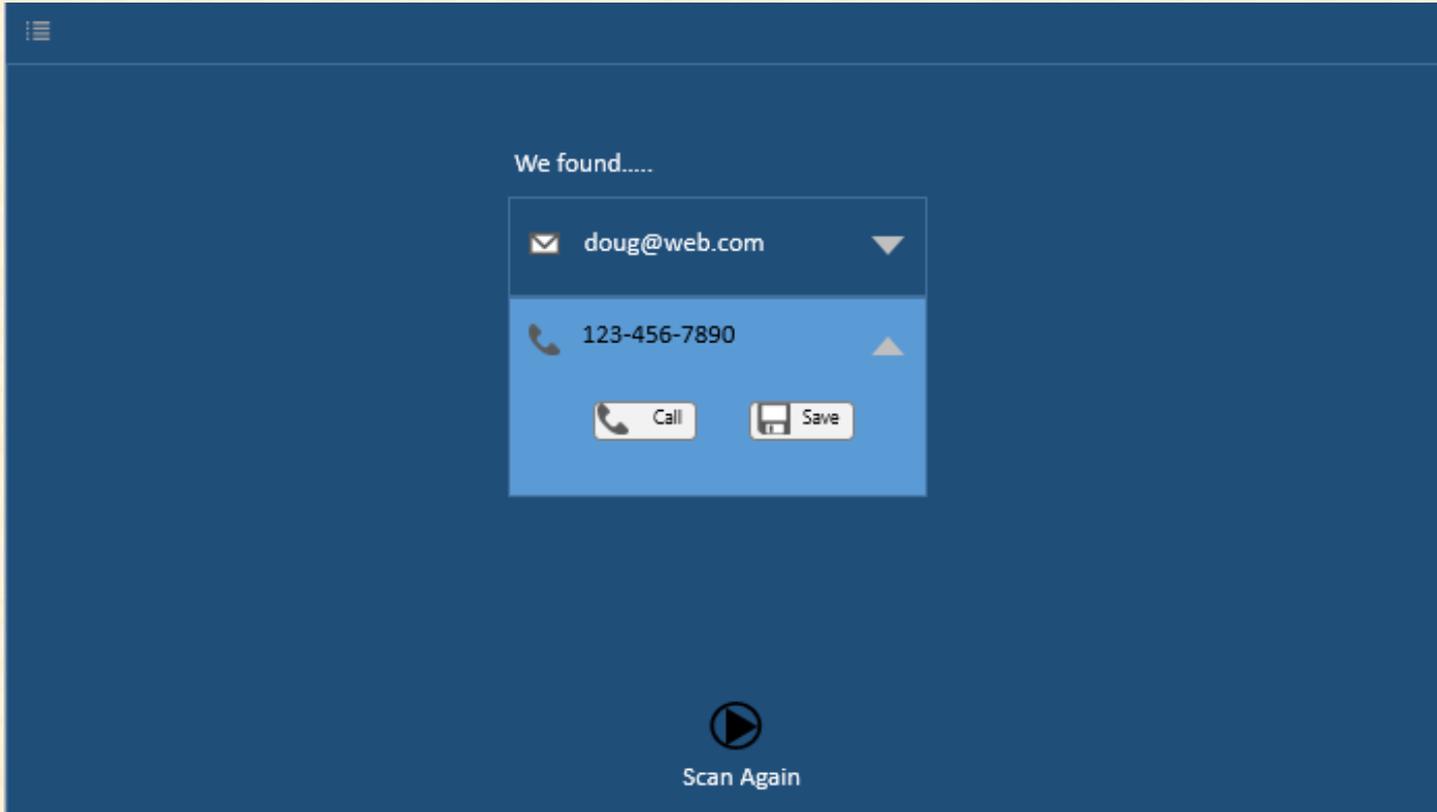
System Architecture



Team TechSmith
Project Plan Presentation

Team TechSmith Project Plan Presentation

Screen Mockup

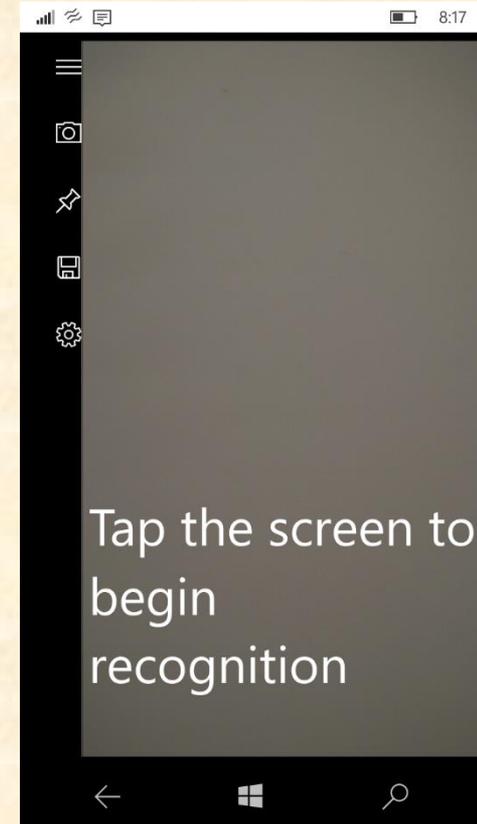
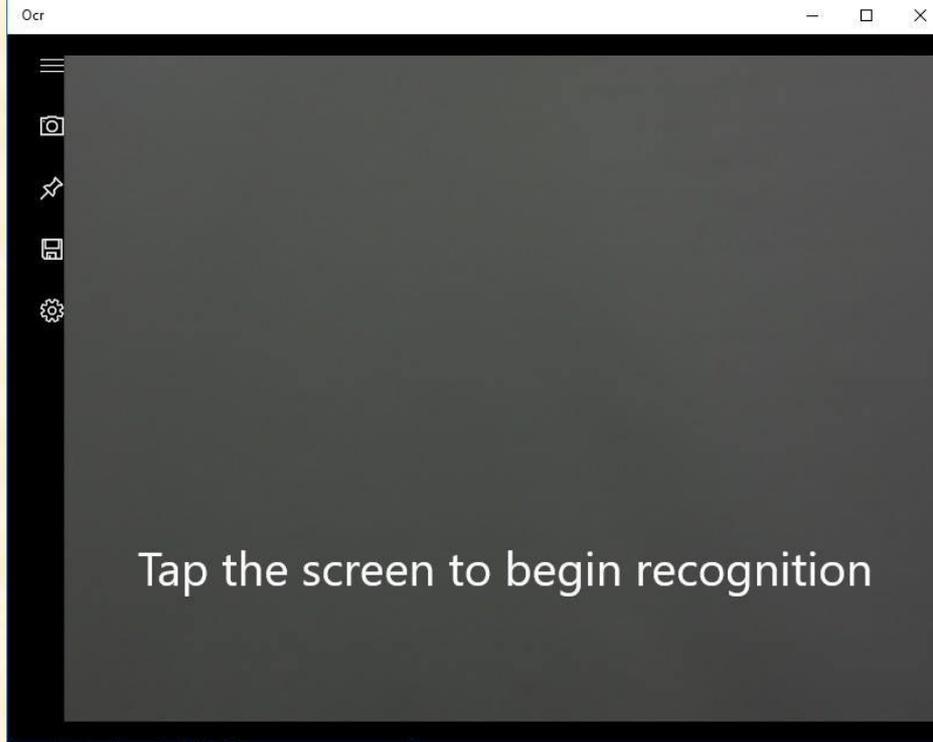




Team TechSmith
Alpha Presentation

Team TechSmith Alpha Presentation

Camera Page

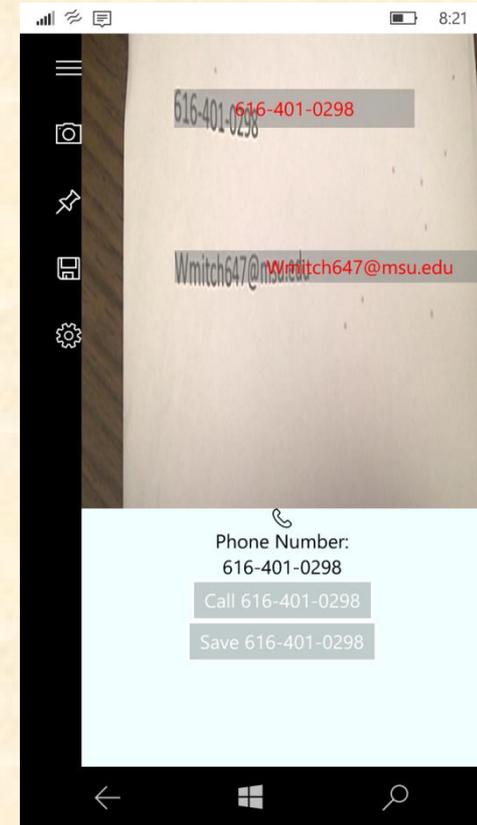
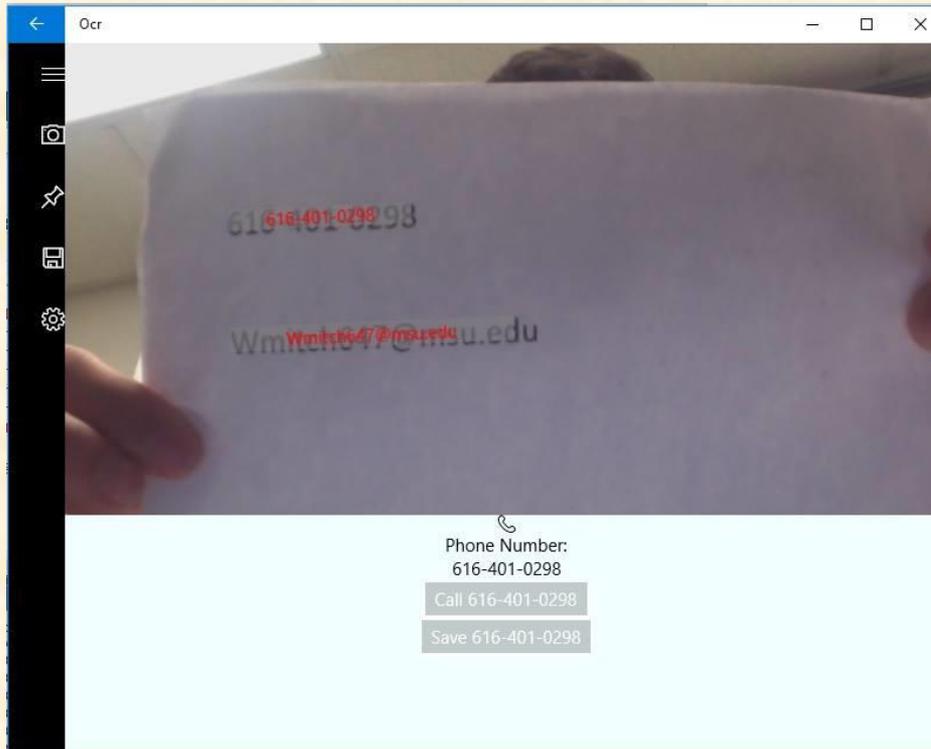


The Capstone Experience



Team TechSmith Alpha Presentation

Results Page

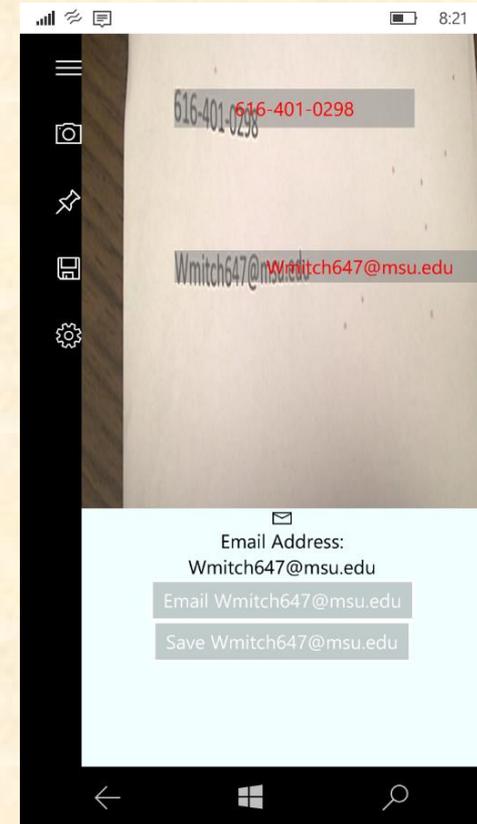
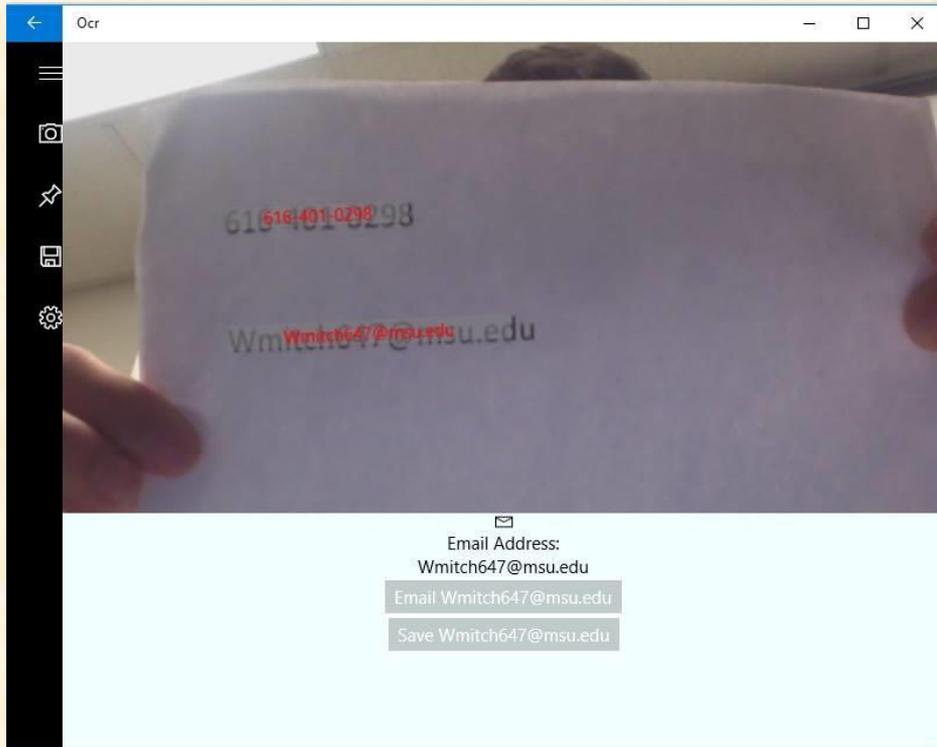




Team TechSmith
Alpha Presentation

Team TechSmith Alpha Presentation

Results Page

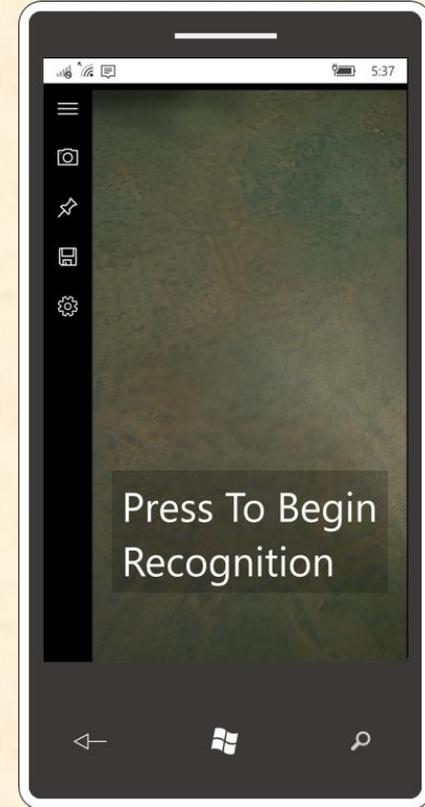
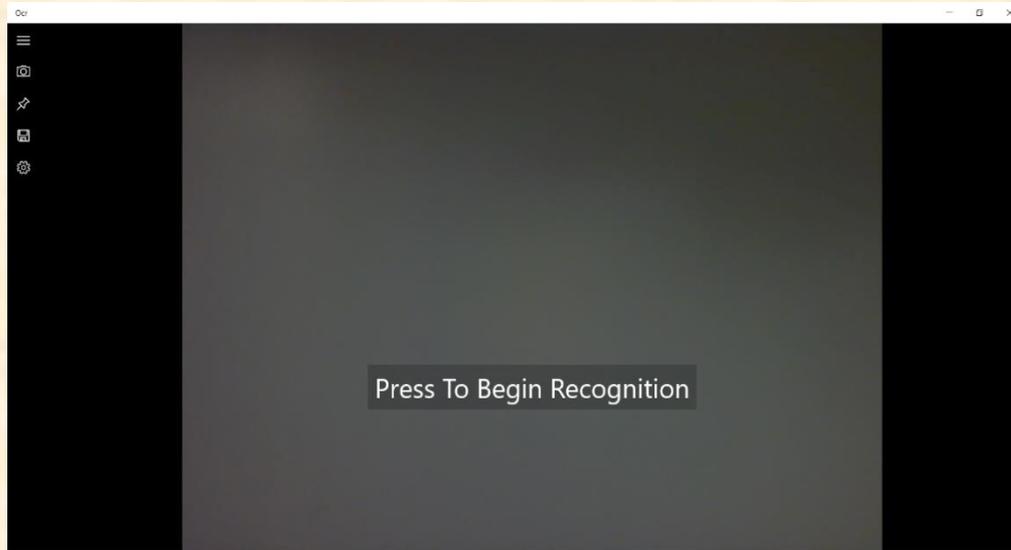




Team TechSmith Beta Presentation

Team TechSmith Beta Presentation

Camera Page

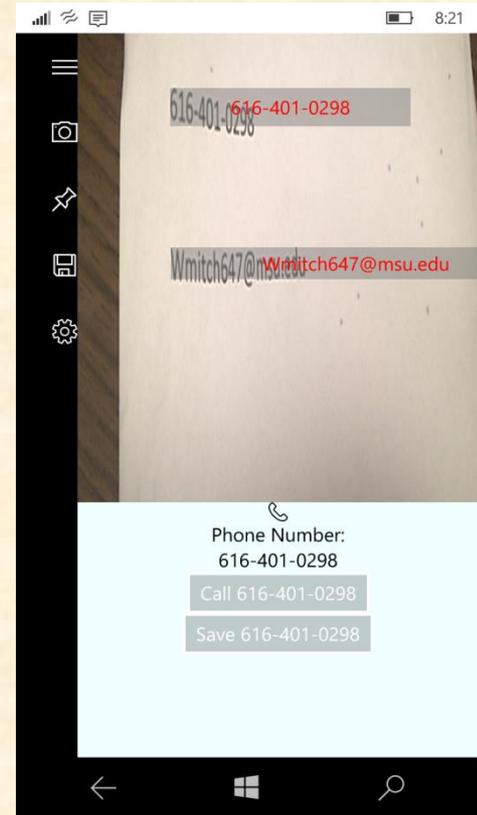
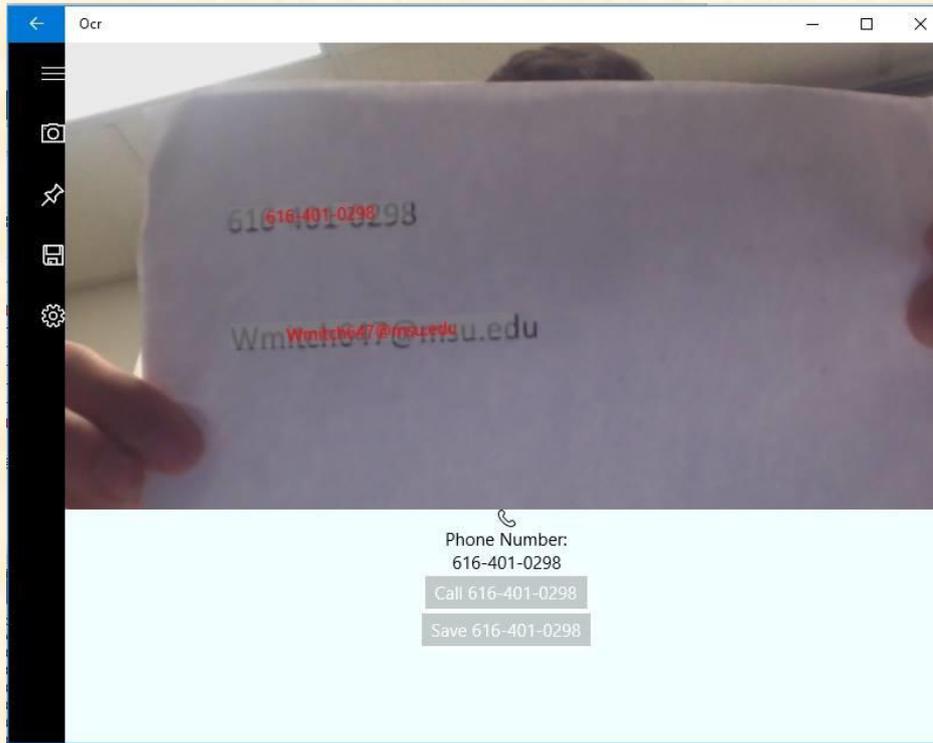


The Capstone Experience



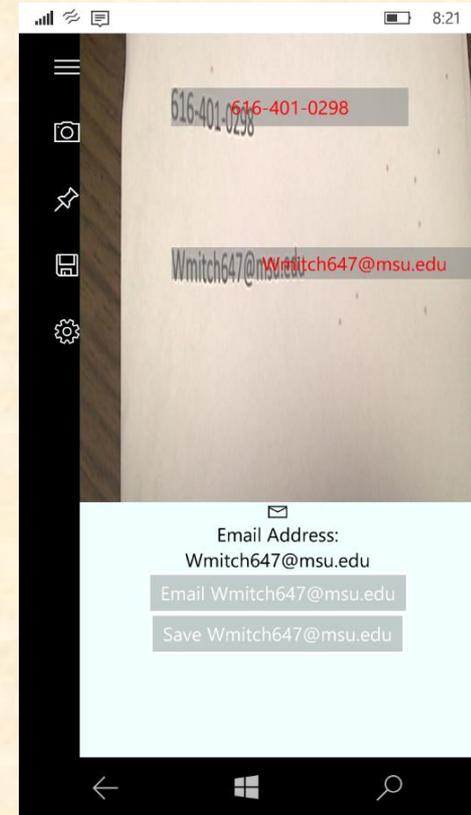
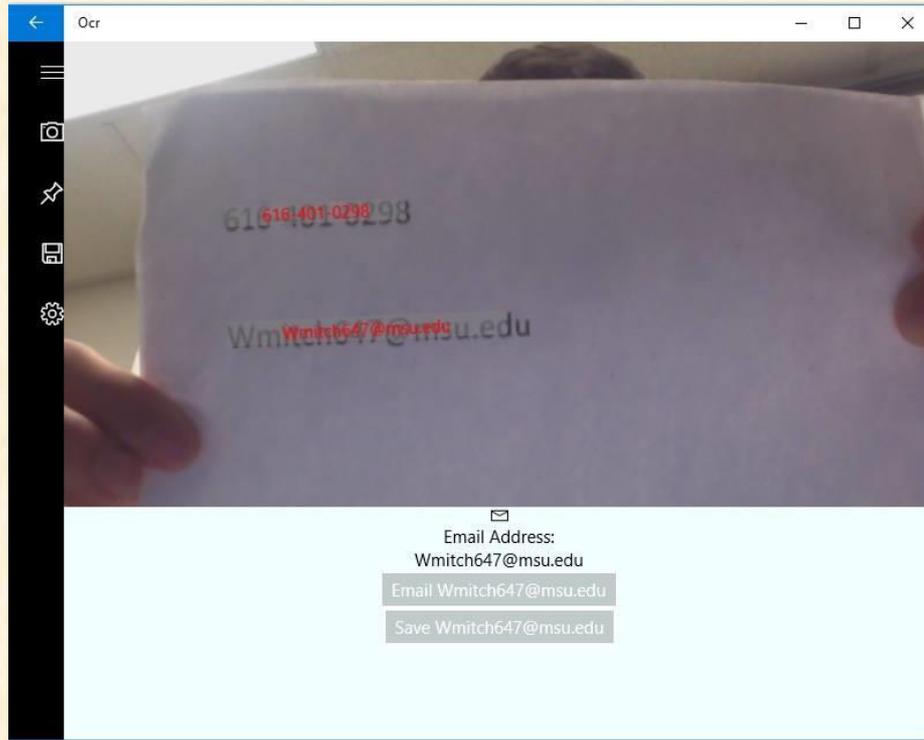
Team TechSmith Beta Presentation

Recognized Phone Number



Team TechSmith Beta Presentation

Recognized Email Address





Team TechSmith Beta Presentation



Team TechSmith
Design Day

MICHIGAN STATE

UNIVERSITY

The Capstone Experience

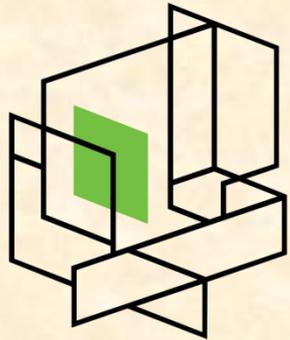
Team Urban Science

Department of Computer Science and Engineering
Michigan State University

Fall 2015



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



URBAN SCIENCE™

Develop Dealer Network

Improve Dealer Performance

Manage Leads

Optimize Marketing

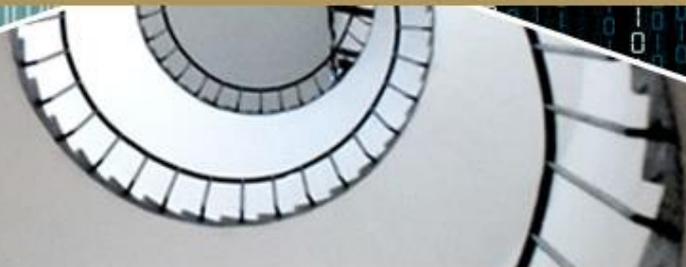
The Power of 4™



THE POWER OF 4™



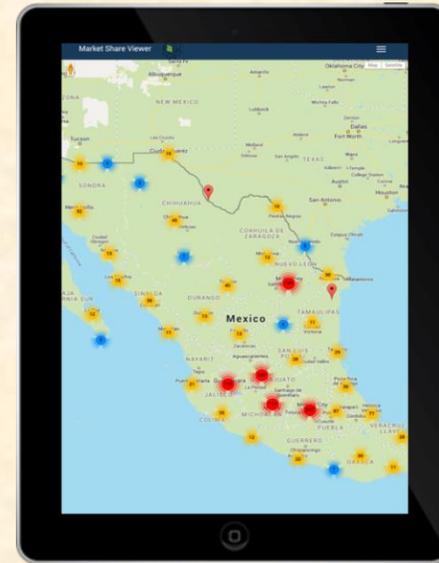
0110
0100 0101
1001 1000



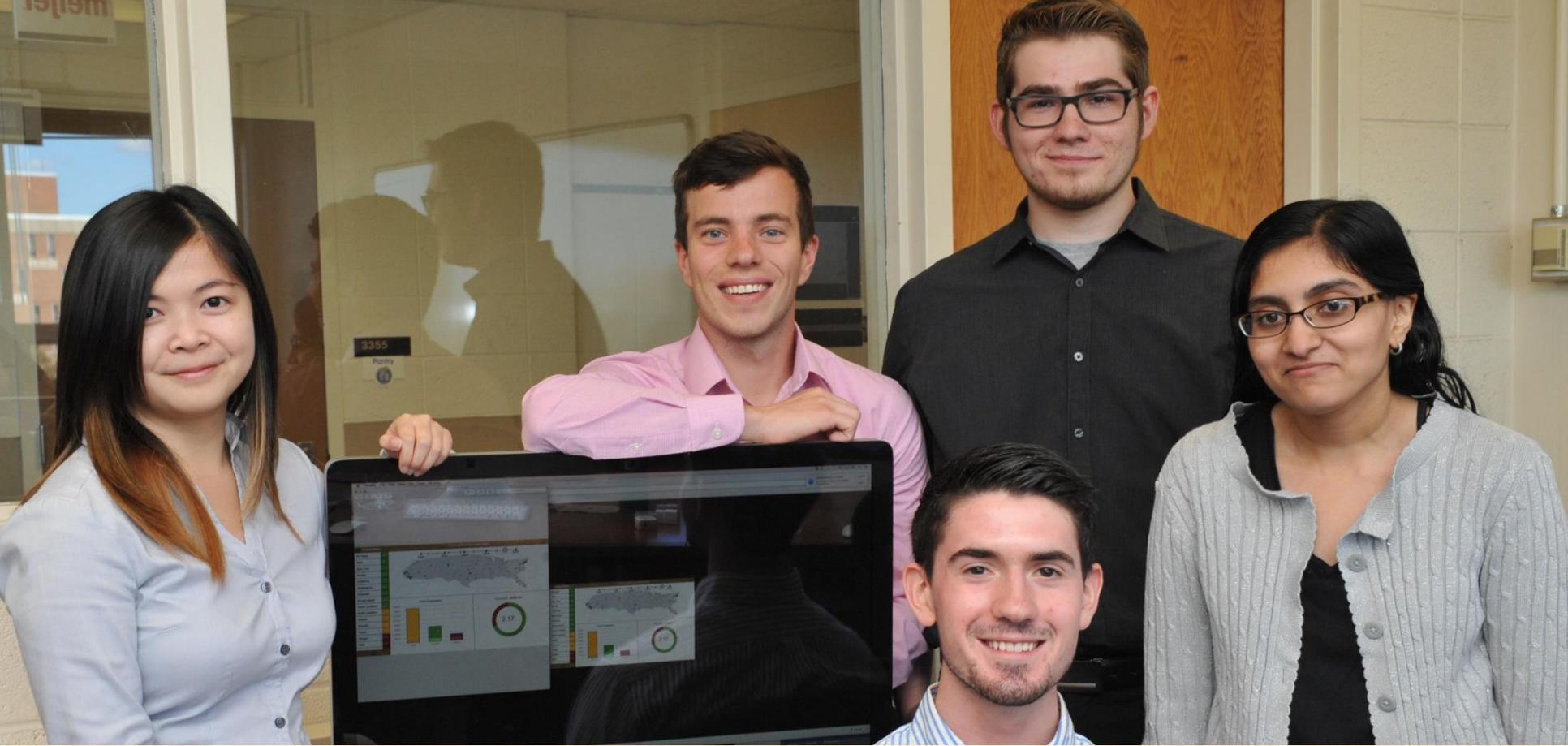
Team Urban Science Project Overview

Visualizing Brand Loyalty

- Functionalities
 - Visualize Brand Loyalty
 - For OEM Loyalty Managers
 - Using Native Tablet Apps
- Features
 - Visualize
 - Repurchase Loyalty Rates by Brand and Segment
 - Conquest / Defector Ratios for All Brands
 - Trends on All Key Performance Indicators (KPIs)
 - Support KPI Grouping by Geographic Region
 - National
 - Regional
 - Market
 - Provide Native Apps for Both Android and Apple iOS
 - Send Intelligent Alerts
- Technologies
 - Google Android Tablets and Phones / Java
 - Apple iPads and iPhones (iOS) / Swift or Objective-C
 - SQL Server 2012
 - Visual Studio 2013



URBAN SCIENCE
Detroit, Michigan

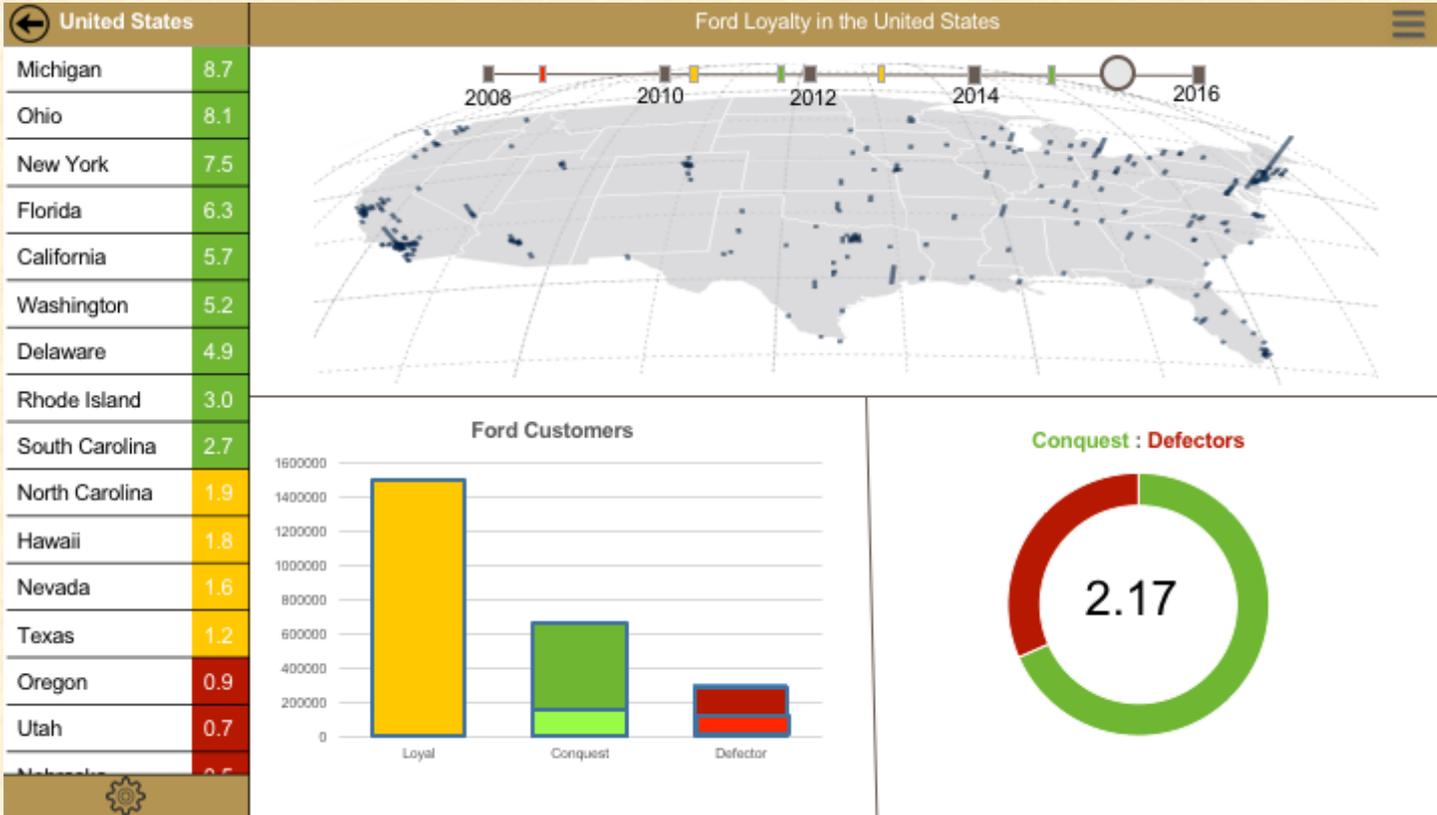


Team Urban Science

Meghan Huynh, Jeff Baum, Nick Durak, Richard Brush, Asha Patel

Team Urban Science Project Plan Presentation

Screen Mockup

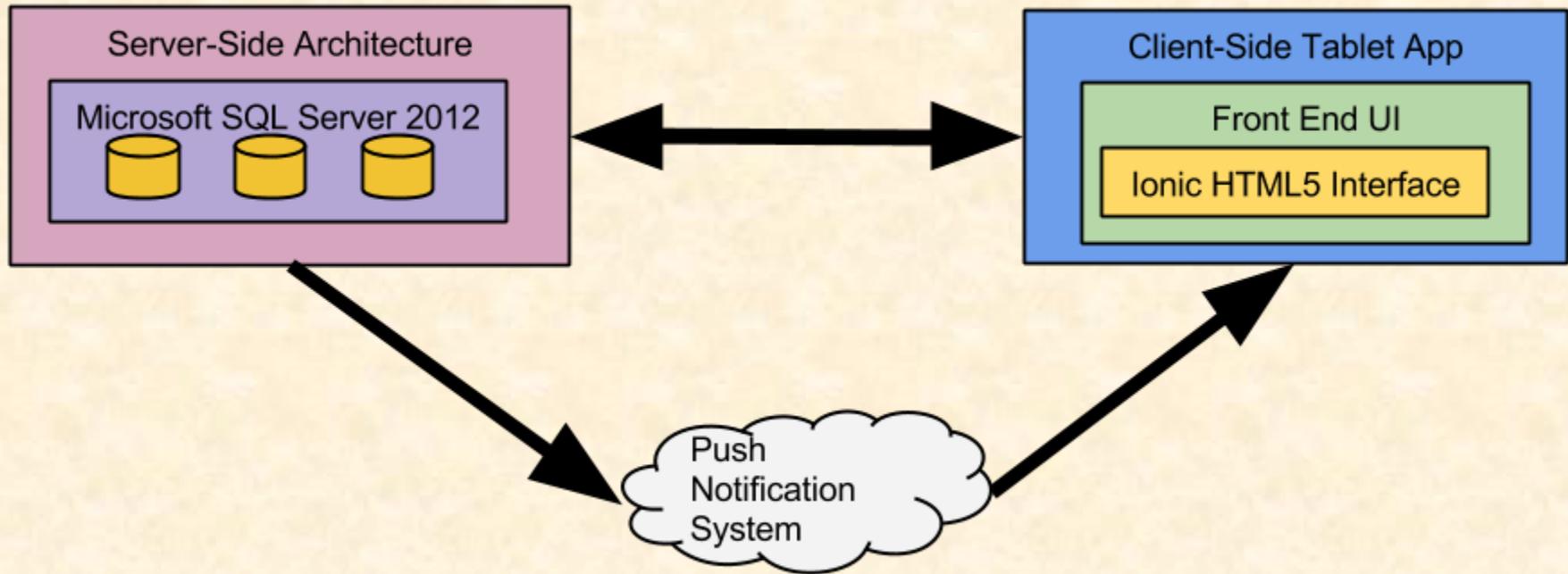




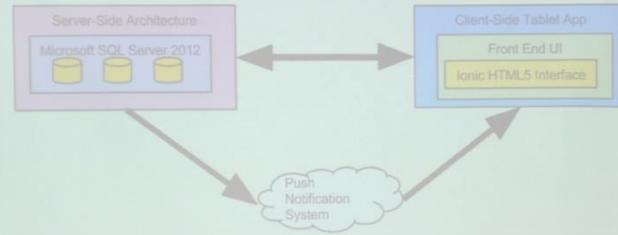
Team Urban Science Project Plan Presentation

Team Urban Science Project Plan Presentation

Architecture Diagram



System Architecture



The Customized Experience Team Urban Science Project Plan

Team Urban Science
Project Plan Presentation

Team Urban Science Project Plan Presentation

Screen Mockup

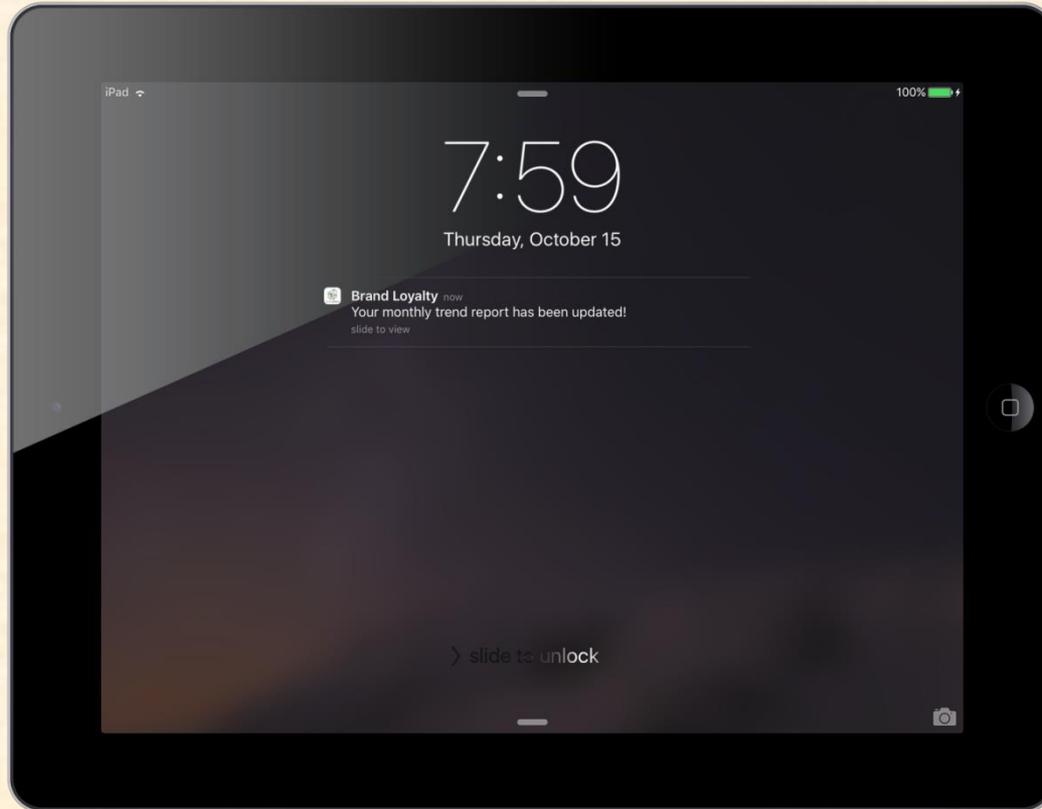




Team Urban Science Alpha Presentation

Team Urban Science Alpha Presentation

Push Notifications



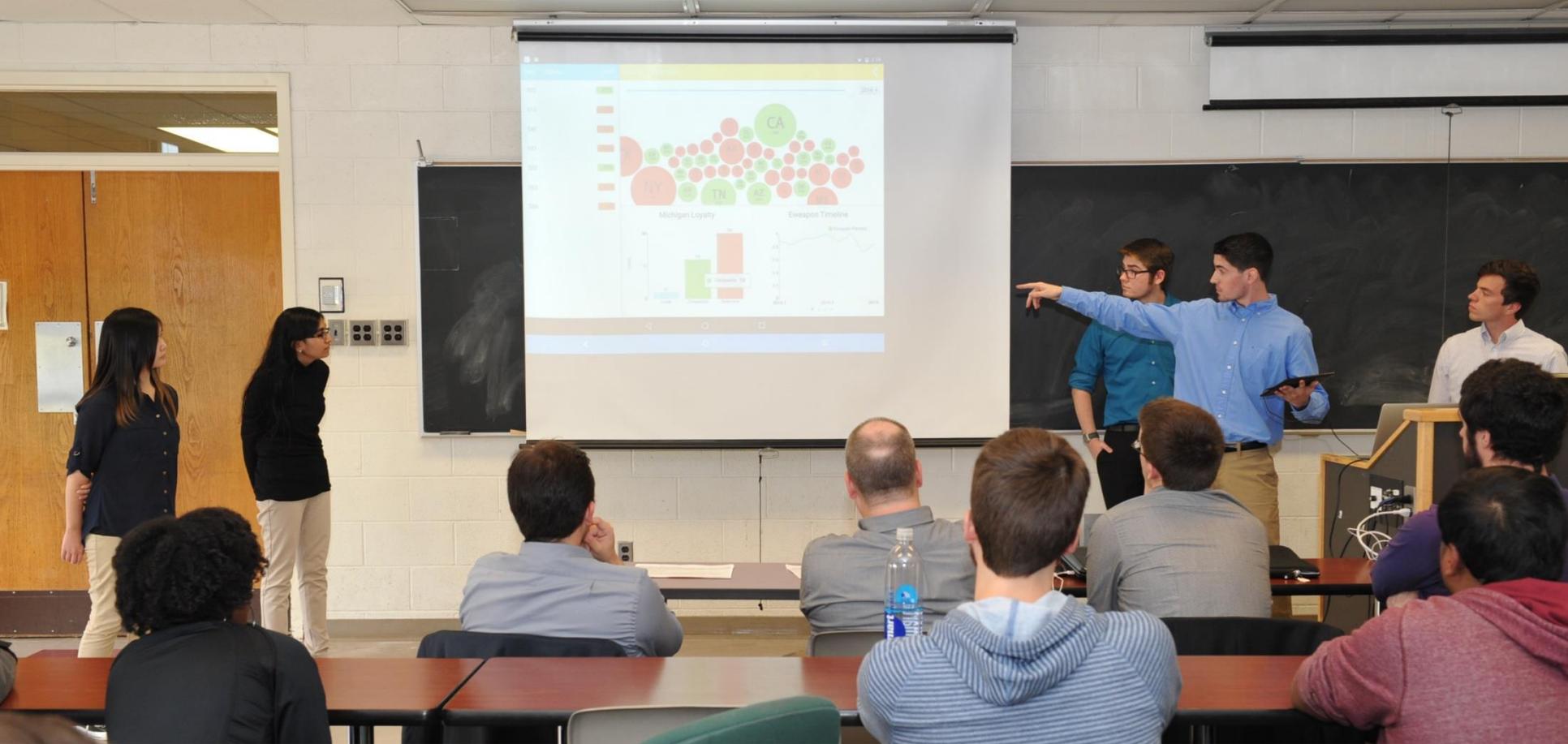
The Capstone Experience



Team Urban Science Alpha Presentation

Geography Hierarchy Menu





Team Urban Science Alpha Presentation



Team Urban Science Beta Presentation

Team Urban Science Beta Presentation

Choropleth Map



Team Urban Science Beta Presentation

Bubble Chart





Team Urban Science Beta Presentation

Team Urban Science Beta Presentation

Push Notification Creation





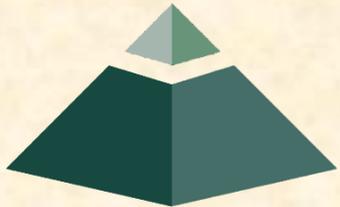
Team Urban Science
Design Day

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The Capstone Experience

Team Whirlpool

Department of Computer Science and Engineering
Michigan State University
Fall 2015



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



Whirlpool

CORPORATION





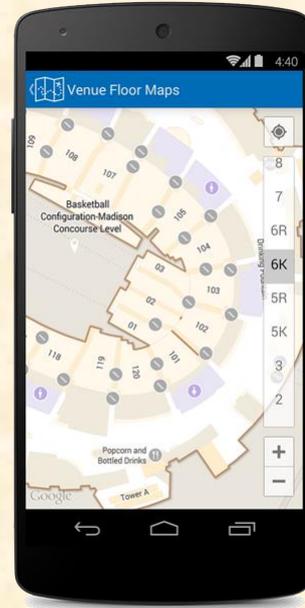
Being flexible—that's caring.

See Details

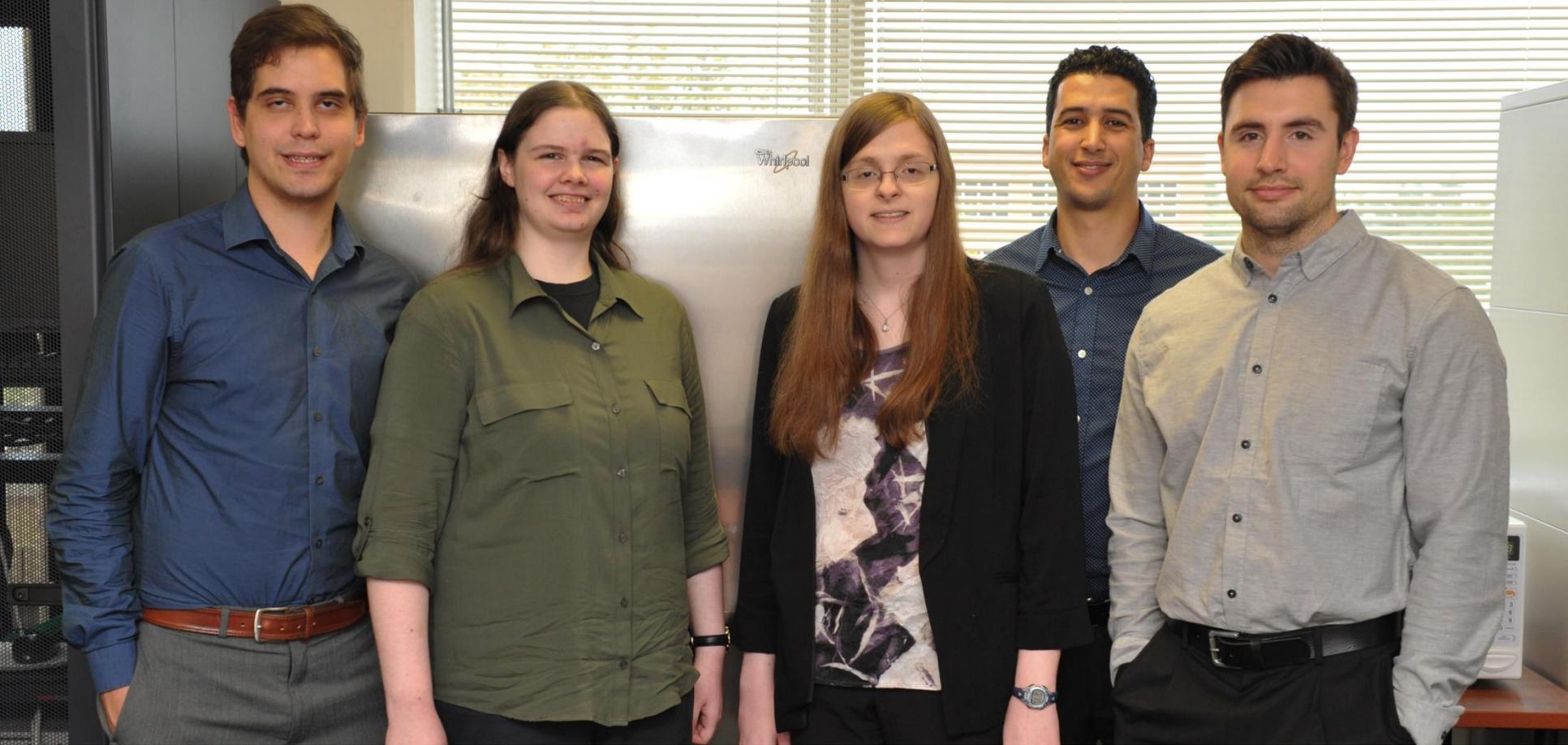
Team Whirlpool Project Overview

Whirlpool Indoor Maps

- Functionalities
 - Help Whirlpool Employees Navigate Buildings
 - By Providing
 - Search by Room and Employee
 - Maps
 - Turn-By-Turn Directions
 - Using Mobile Apps
- Features
 - Authenticate Users with Google Authentication
 - Display Whirlpool Facility Maps
 - Gather Room Details from XML Data
 - Locate Available Conference Rooms
 - Integrate with Google Calendar
 - Support Both Native Android and Apple iOS Apps
 - Provide Web App
- Technologies
 - Google Android Tablets and Phones / Java
 - Apple iPads and iPhones (iOS) / Swift or Objective-C
 - Google Maps SDKs (for iOS and Android)
 - Google Enterprise Authentication
 - Micello JavaScript API
 - SQL Server
 - Custom XML Parser
 - RESTful Web Services



Benton Harbor, Michigan

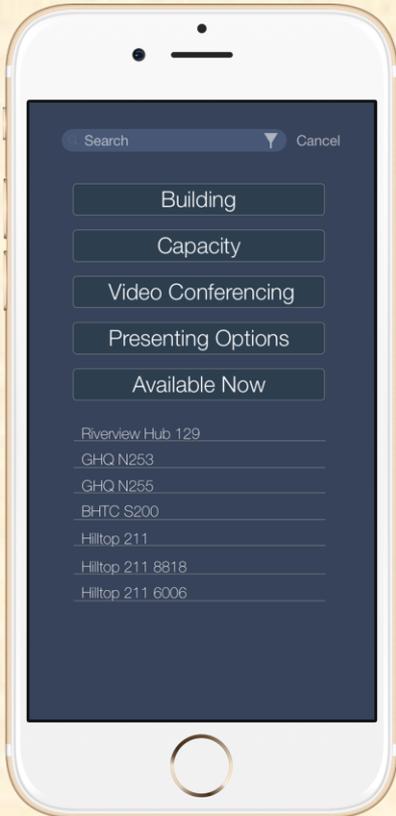


Team Whirlpool

Christian White, Steph Brown, Zoe Hayes, Jallal Elhazzat, Greg Richard

Team Whirlpool Project Plan Presentation

Screen Mockup

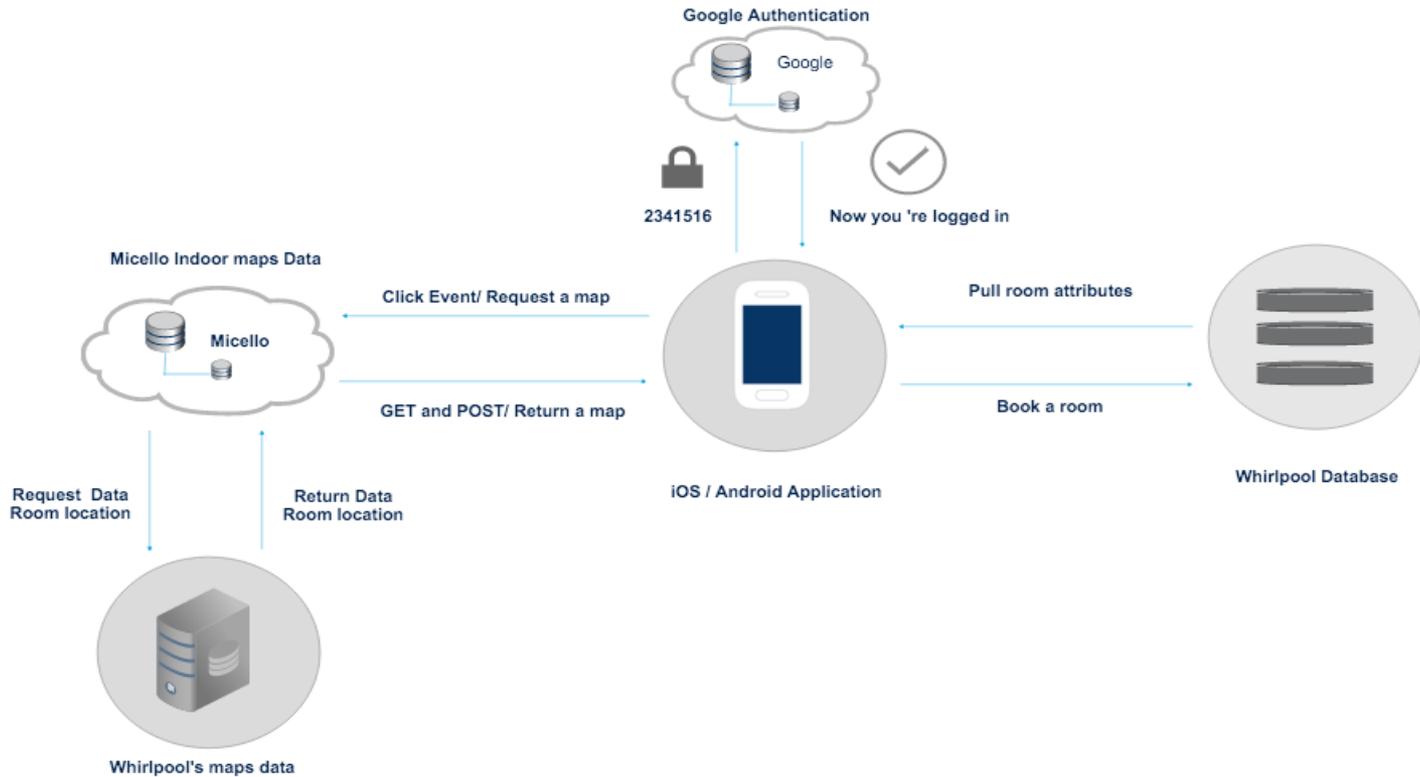




Team Whirlpool
Project Plan Presentation

Team Whirlpool Project Plan Presentation

Architecture Diagram

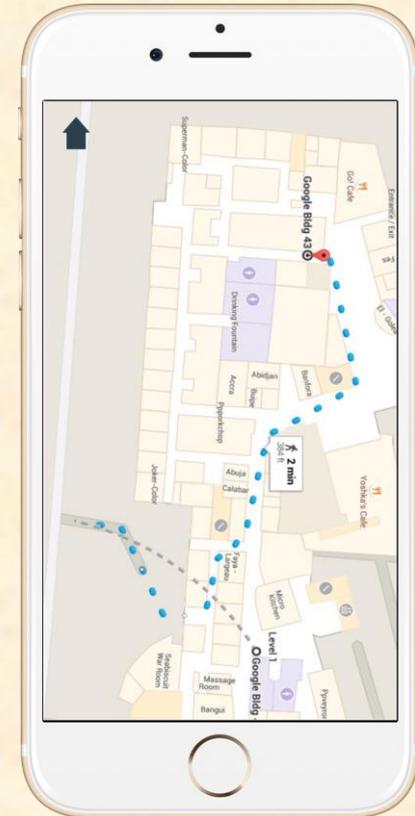
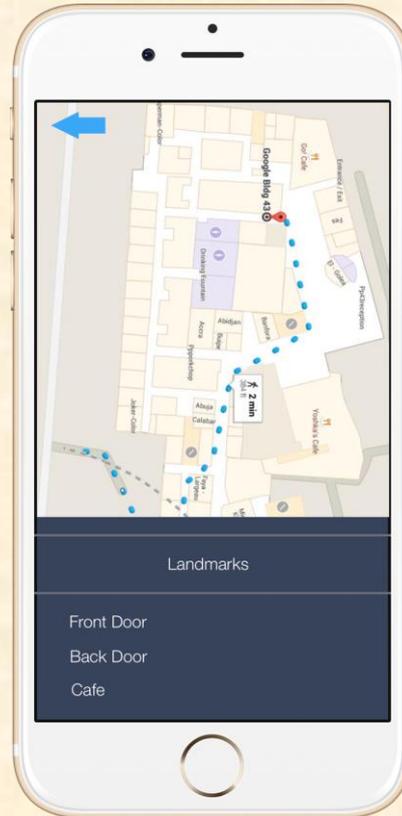
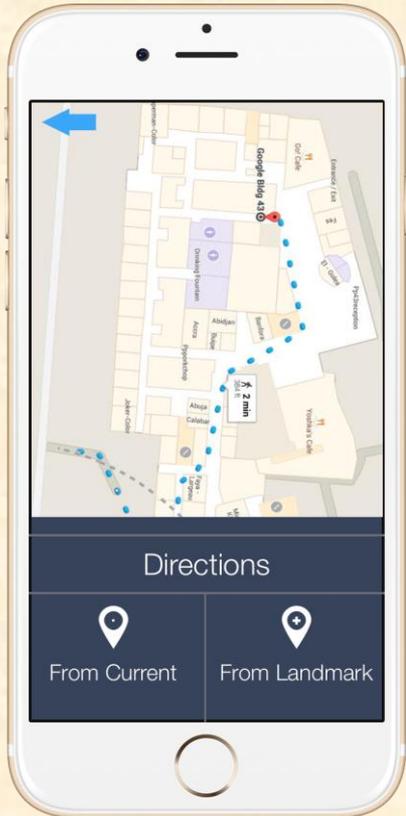


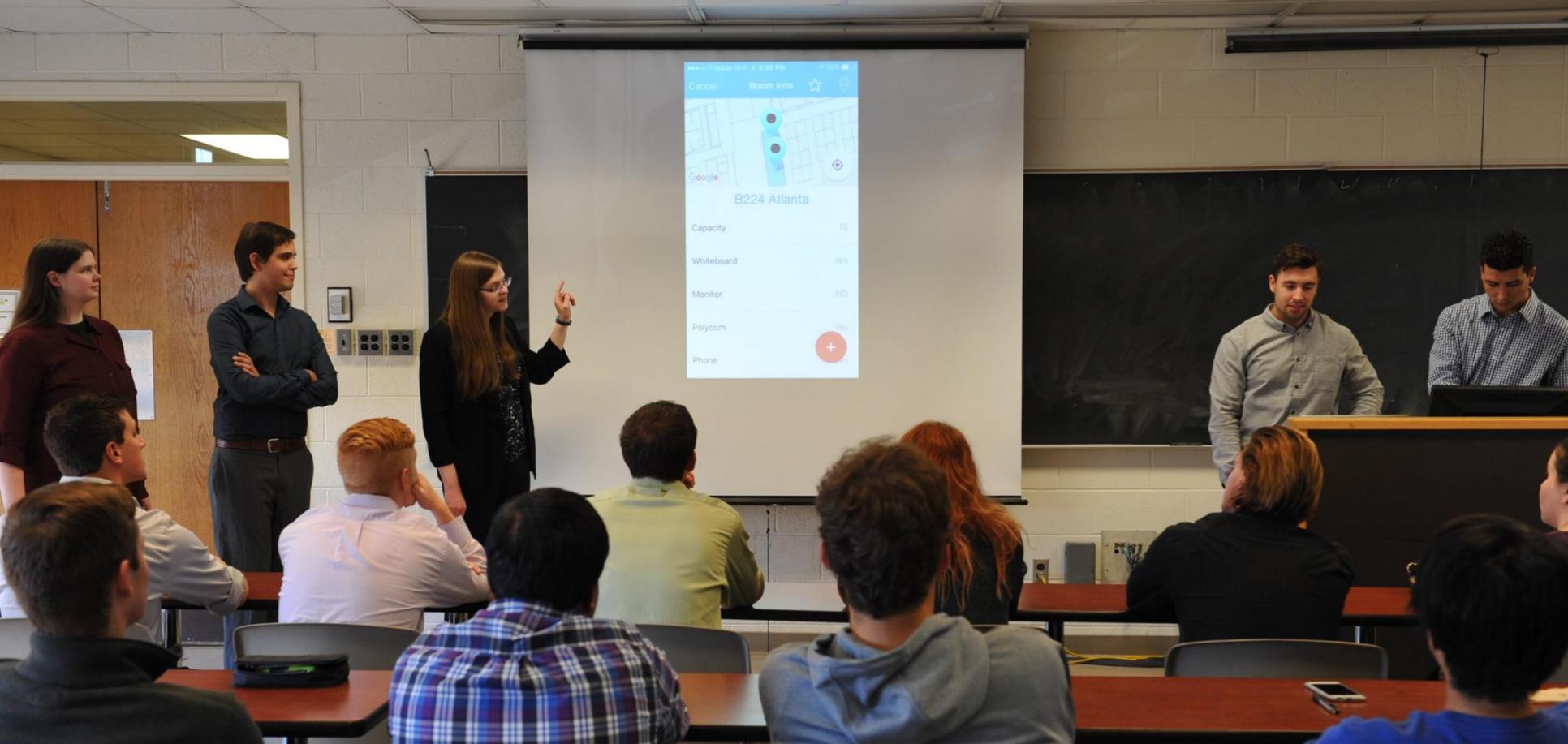


Team Whirlpool
Project Plan Presentation

Team Whirlpool Project Plan Presentation

Screen Mockup

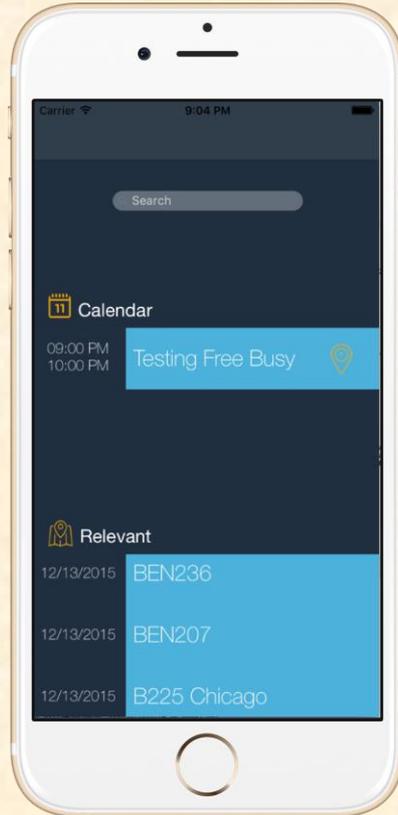




Team Whirlpool Alpha Presentation

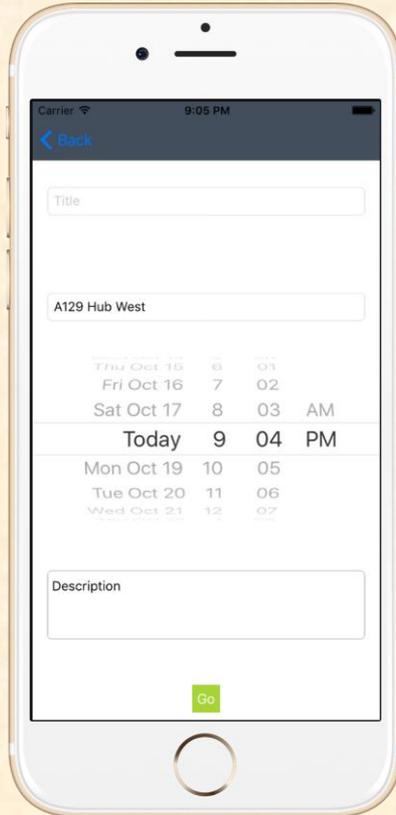
Team Whirlpool Alpha Presentation

Home Screen



Team Whirlpool Alpha Presentation

Create Event

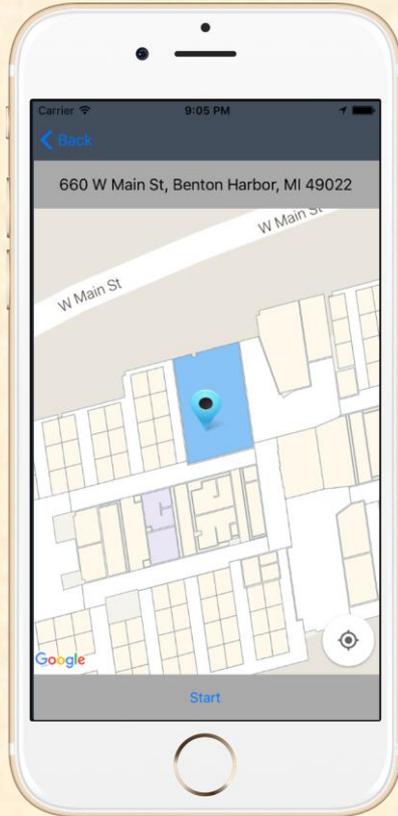




Team Whirlpool Alpha Presentation

Team Whirlpool Alpha Presentation

Whirlpool Building Map





Team Whirlpool Beta Presentation

Team Whirlpool Beta Presentation

Home Screen

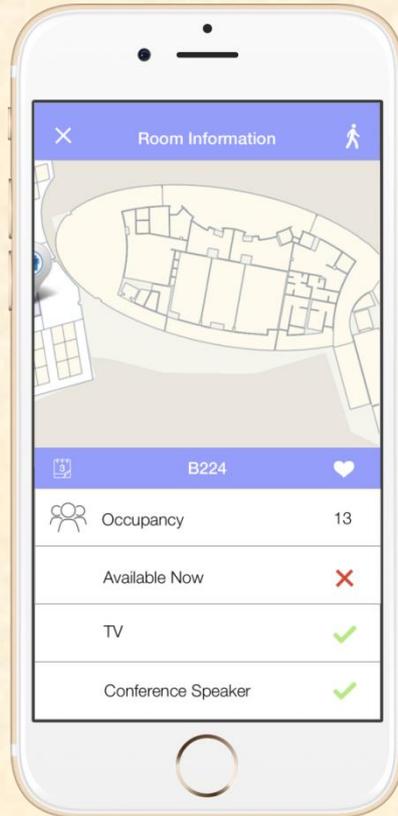


The Capstone Experience



Team Whirlpool Beta Presentation

Room Information

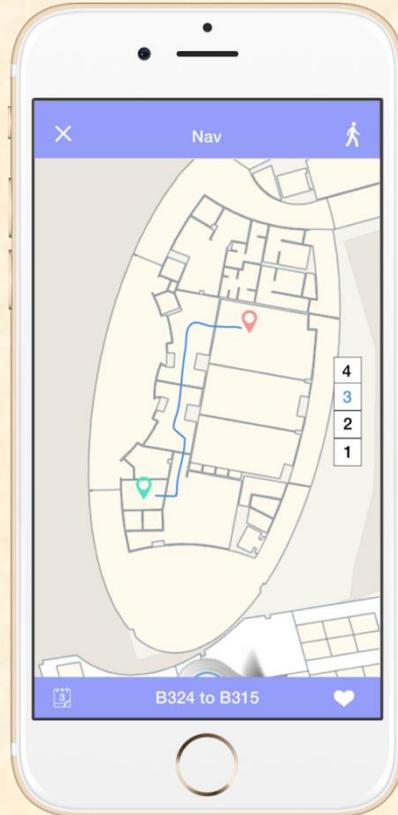




Team Whirlpool Beta Presentation

Team Whirlpool Beta Presentation

Navigation Screen





Team Whirlpool
Design Day

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The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Fall 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

U N I V E R S I T Y

The Capstone Experience

Design Day Award Winners

December 11, 2015



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



All-Hands
Design Day, December 5, 2014



Auto-Owners Exhibition Award

Team GM, Fall 2015

Global Service Desk Mobile App

Corbin Rangler, Sean Rabaut, Evan Hlavaty, Brian Hart, Michael Palmer
Scott Lake of Auto-Owners Insurance



MSU Federal Credit Union Praxis Award

Team Symantec, Fall 2015

Integrated Silent Authentication via Symantec VIP

Dan Parlin, Scott Binter, Tyler Erskine, James Mariani, Chris Perry

Presented by Samantha Amburgey of MSUFCU



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COLLEGE OF ENGINEERING

MICHIGAN STATE
UNIVERSITY

MICHIGAN STATE
UNIVERSITY
COLLEGE OF ENGINEERING

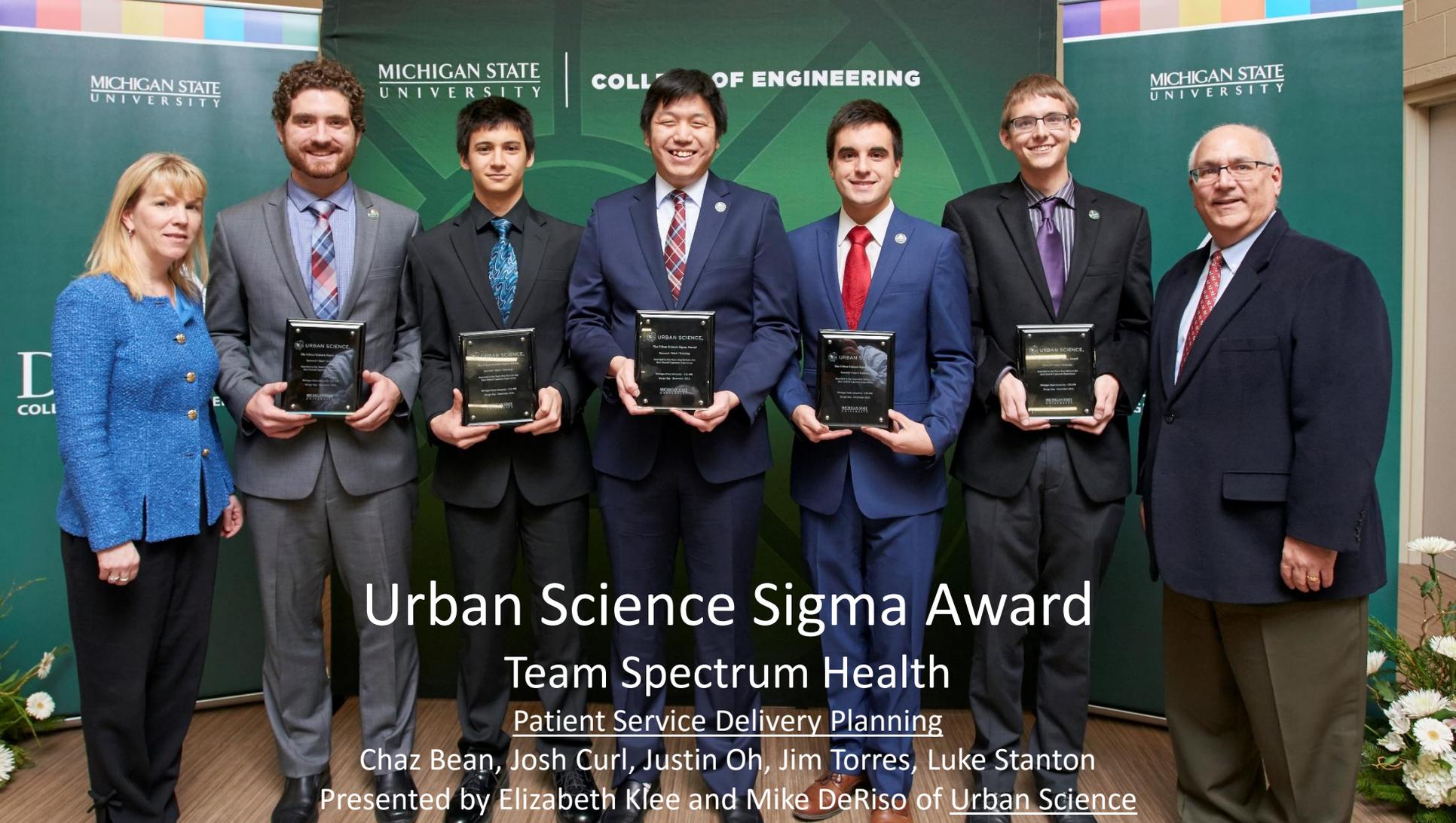
TechSmith Screencast Award

Team TechSmith, Fall 2015

Intelligent Real World Text Recognition

Deb Deb, Kanpur, Max Miller, Cody Pearson, Whitney Mitchell, Jordyn Castor

Presented by Dewey Hou TechSmith



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UNIVERSITY

Urban Science Sigma Award

Team Spectrum Health

Patient Service Delivery Planning

Chaz Bean, Josh Curl, Justin Oh, Jim Torres, Luke Stanton

Presented by Elizabeth Klee and Mike DeRiso of Urban Science

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U N I V E R S I T Y

The Capstone Experience

Design Day Award Winners

May 1, 2015



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...to Professionals*



All-Hands
Design Day, May 1, 2015



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MICHIGAN ST.
Design
COLLEGE OF

MICHIGAN STATE UNIVERSITY
Design Day
ENGINEERING

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

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MICHIGAN STATE
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UNIVERSITY
nDay
ENGINEERING

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

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The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Fall 2015



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

amazon





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*

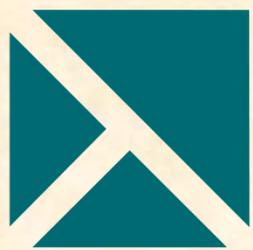
Quicken[®] Loans[®]
Engineered to **AmazeSM**

SPECTRUM HEALTH

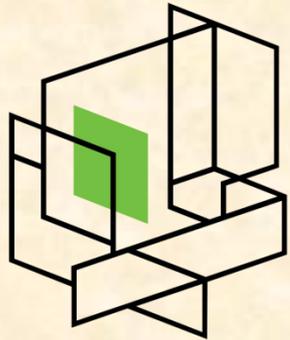




Symantec



TechSmith®



URBAN SCIENCE™



Whirlpool

CORPORATION

