

The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Spring 2012



*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, 1225 Engineering Building
- Presentations By
 - Professor
 - Teams
 - Status Reports
 - Formal Presentations
 - Project Plan
 - Alpha
 - Beta
 - Project Videos
 - Guest Speakers



All-Hands Meetings

- 01/09: Course Overview
- 01/11: Project Plan
- 01/16: (Martin Luther King Day, No Meeting)
- 01/18: Risks and Prototypes
- 01/23: Team [Status Reports](#)
- 01/25: Schedule and Team Work
- 01/30: Team [Project Plan Presentations](#)
- 02/01: Team [Project Plan Presentations](#)
- 02/06: Team [Project Plan Presentations](#)
- 02/08: Team [Project Plan Presentations](#)
- 02/13: Resume Writing and Interviewing
- 02/15: Creating and Giving Presentations
- 02/20: Team [Alpha Presentations](#)
- 02/22: Team [Alpha Presentations](#)
- 02/27: Team [Alpha Presentations](#)
- 02/29: Team [Alpha Presentations](#)
- 03/05: (Spring Break, No Meeting)
- 03/07: (Spring Break, No Meeting)
- 03/12: [Design Day](#) and the [Project Videos](#)
- 03/14: Camtasia Demo
- 03/19: Team Status Reports
- 03/21: Team Status Reports
- 03/26: Team Status Reports
- 03/28: Team Status Reports
- 04/02: Team Beta Presentations
- 04/04: Team Beta Presentations
- 04/09: Team Beta Presentations
- 04/11: Team Beta Presentations
- 04/16: Ethics and Professionalism
- 04/18: Intellectual Property and Copyright
- 04/23: Team [Project Videos](#)
- 04/25: Team [Project Videos](#) and All Deliverables
- 04/26: [Design Day](#) Setup
- 04/27: [Design Day](#)
- 05/01: Team [Project Videos](#)



The Capstone Experience

Team Auto-Owners

Department of Computer Science and Engineering
Michigan State University
Spring 2012



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



Auto-Owners Insurance

Life Home Car Business

The "No Problem" People®

Auto-Owners Insurance[Customer Center](#) | [Find a Career with Us](#)[OUR PRODUCTS](#)[CORPORATE INFORMATION](#)[CUSTOMER CLAIMS](#)[Find](#)

▼ Find a Local Agency

[Find](#)

or Search by Address



Quality Coverage in 26 States

[► Start an Auto Quote](#)[► Customer Log In](#)

"Highest in customer satisfaction
with the Auto Insurance Claims
Experience, four years in a row."

-- J.D. Power and Associates



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

Enterprise Learning Management System

- Functionalities
 - Manage Continuing Education and Certification
 - For Auto-Owners Associates Throughout the Enterprise
 - Customize and Extend Moodle LMS
- Features
 - Show Complete Catalog of Courses
 - View Transcripts by Associate
 - Support Registration with Waiting Lists
 - Suggest Courses and Certifications
 - Support Various User Roles
 - Track Resources Checked Out to Associates
 - Integrate with External Vendors (Kaplan, AICPCU)
- Technologies
 - Moodle Learning Management System
 - PHP 5, JavaScript
 - Microsoft SQL Server or MySQL
 - Microsoft Access



Lansing, Michigan





Team Auto-Owners
Chris Marsh, Preston Skupinski, Fi Wu



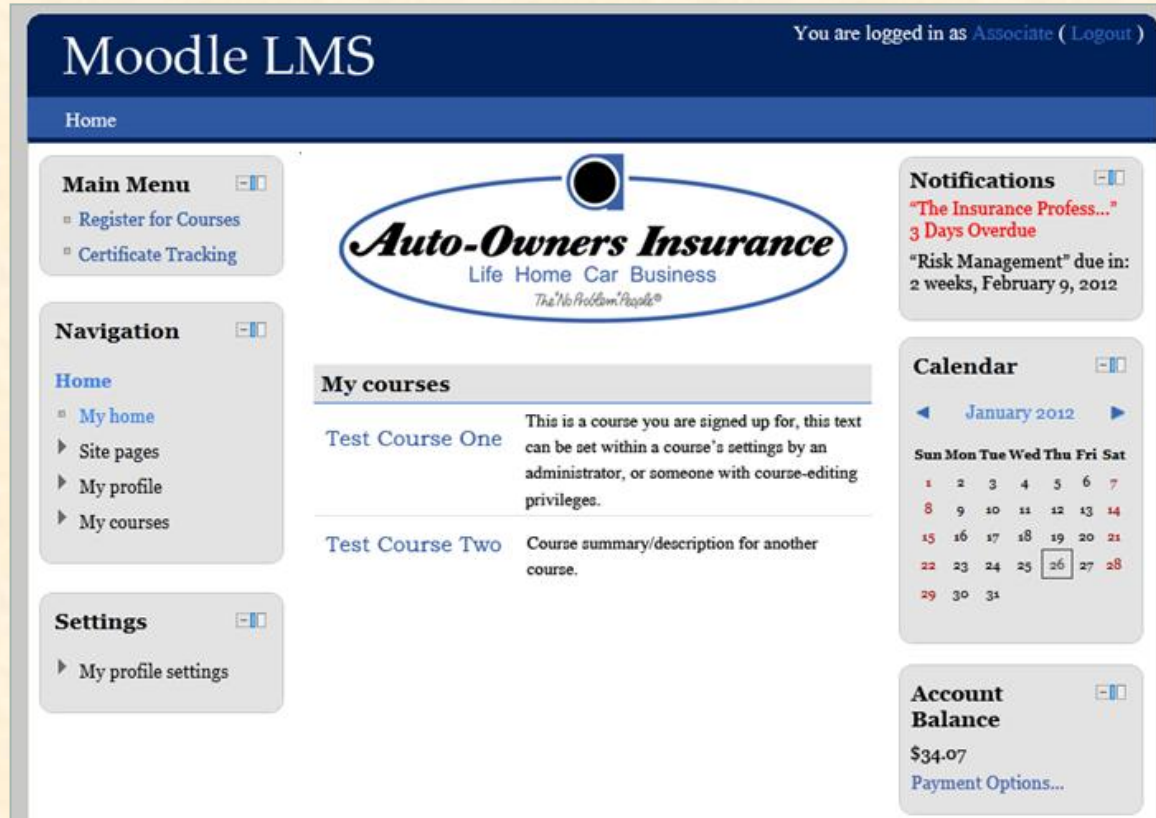
Screen Mockup: Associate Front Page



Team Auto-Owners
Project Plan Presentation

Team Auto-Owners Project Plan Presentation

Screen Mockup



The mockup shows a Moodle LMS interface with a dark blue header. The header contains the Moodle LMS logo and a login status: "You are logged in as Associate (Logout)". Below the header is a "Home" navigation bar. The main content area is divided into several sections. On the left, there are three sidebars: "Main Menu" with links for "Register for Courses" and "Certificate Tracking"; "Navigation" with links for "Home", "My home", "Site pages", "My profile", and "My courses"; and "Settings" with a link for "My profile settings". The central content area features the "Auto-Owners Insurance" logo, which includes the text "Life Home Car Business" and "The 'No Problem' People®". Below the logo is a section titled "My courses" with two entries: "Test Course One" and "Test Course Two". "Test Course One" has a description: "This is a course you are signed up for, this text can be set within a course's settings by an administrator, or someone with course-editing privileges." "Test Course Two" has a description: "Course summary/description for another course." On the right side, there are three more sections: "Notifications" with two alerts, "Calendar" showing a calendar for January 2012, and "Account Balance" showing a balance of \$34.07 and a link for "Payment Options...".

Moodle LMS You are logged in as Associate (Logout)

Home

Main Menu

- Register for Courses
- Certificate Tracking

Navigation

- Home
- My home
- Site pages
- My profile
- My courses

Settings

- My profile settings

Auto-Owners Insurance
Life Home Car Business
The "No Problem" People®

My courses

Test Course One This is a course you are signed up for, this text can be set within a course's settings by an administrator, or someone with course-editing privileges.

Test Course Two Course summary/description for another course.

Notifications

- "The Insurance Profess..."
3 Days Overdue
- "Risk Management" due in:
2 weeks, February 9, 2012

Calendar

January 2012

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-----|-----|-----|-----|-----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

Account Balance

\$34.07
Payment Options...

Team Auto-Owners Project Plan Presentation

Screen Mockup

Main Menu

- Register for Courses
- Certificate Tracking

Navigation

- Home
 - My home
 - Site pages
 - My profile
 - My courses

Settings

- My profile settings

Course Registration

Recommended Courses (hide)

| Institute 1 | Code | Test Number | Cost |
|--|------|-------------|------|
| Auto-Owners LMS: Course Information... | | | |

Course Information

Full Name: Test Course2 1
Code: TEST2 1
Institute: Institute 2

Available Exam Windows:
Jan. 15 - Mar. 15
Apr. 15 - Jun. 15

Course Description:
Full information about the course taken from the course page or database is displayed here.

Institute Registration Information:
Any information specific to the registration process for the given institute can be displayed here.

Specific Course Registration Information:
Information regarding specific registration for this course are displayed here. This will include disclaimers, notices about the responsibility to pay before being signed up for the course with the institute, and other legal notices or required actions.

Register:
Window: Apr 15 - Jun 15
Adjusted Cost: \$0.00 (0 previous attempts)

On Site ☐ Prometric ☐ Paper ☒

Course recommended by:
Manager_1 (contact)

Notifications

- "The Insurance Profess..."
3 Days Overdue
- "Risk Management" due in:
2 weeks, February 9, 2012

Calendar

January 2012

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-----|-----|-----|-----|-----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

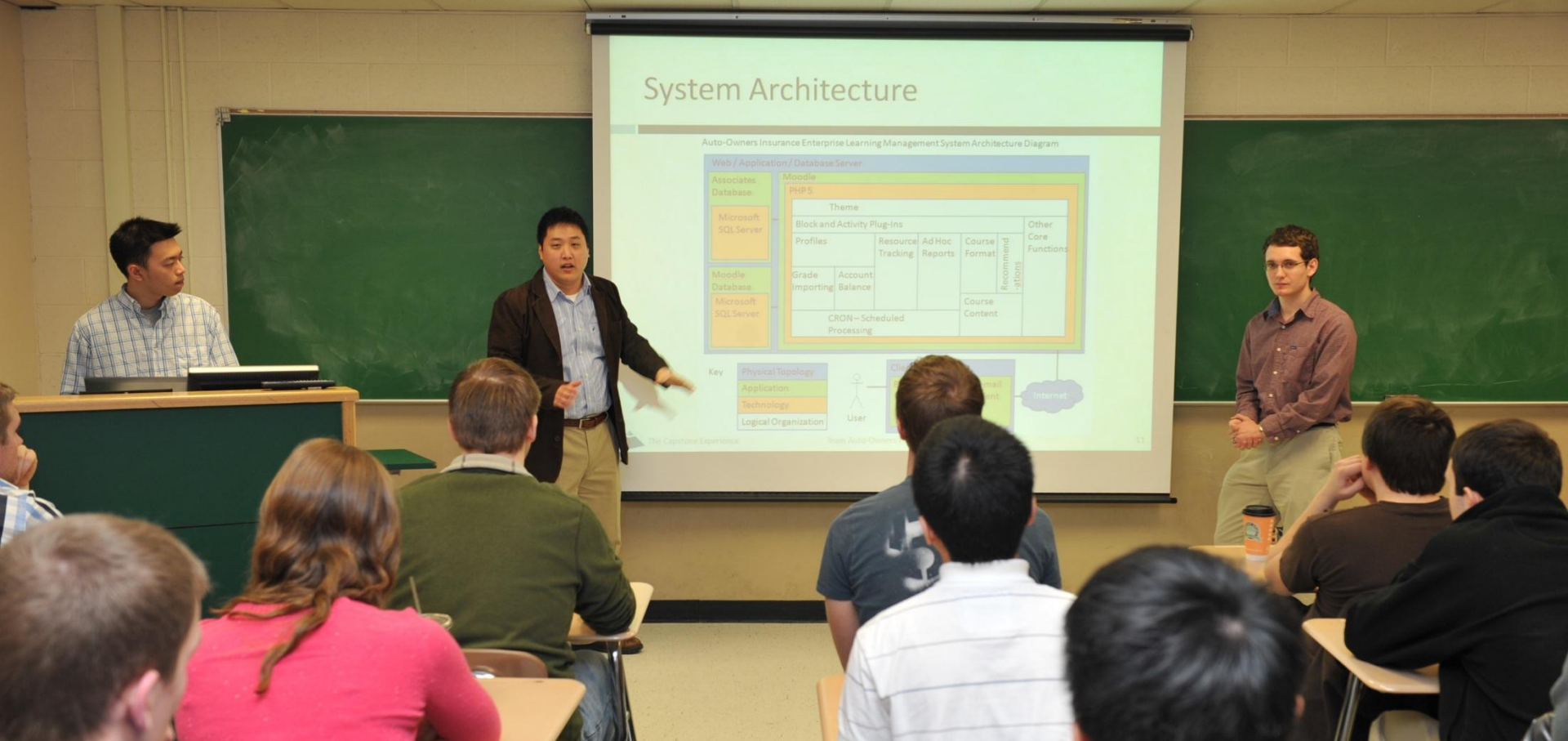
Account Balance

34.07
[Payment Options...](#)

Online users

(last 5 minutes)

- Administrator
- Associate

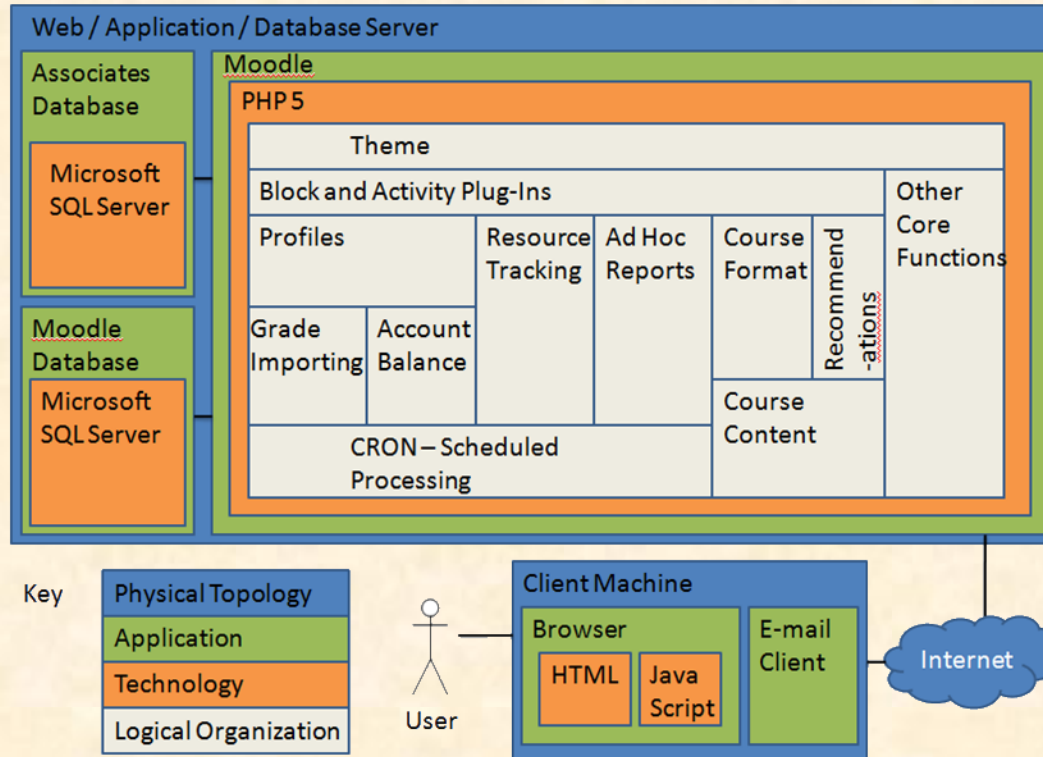


Team Auto-Owners Project Plan Presentation

Team Auto-Owners Project Plan Presentation

Architecture Diagram

Auto-Owners Insurance Enterprise Learning Management System Architecture Diagram





Team Auto-Owners Alpha Presentation

Team Auto-Owners Alpha Presentation

User Home Page

Auto-Owners ELMS

You are logged in as Ben Mosley (Logout)

Home

Main menu

- Ad-Hoc Reports
- Grade Importing
- Designation Tracking
- Course Registration
- Site news

Navigation

Home

- My home
- Site pages
- My profile
- Courses

Settings

- Front page settings
 - Turn editing on
 - Edit settings
- Users
 - Backup
 - Restore
 - Question bank
- My profile settings
- Site administration


Site news

Subscribe to this forum

Add a new topic

Welcome to the Auto-Owners Insurance ELMS!

by Admin User - Sunday, 19 February 2012, 04:04 PM



Discuss this topic (0 replies so far) Edit Delete

Account Balance

\$155

Payment Options...

Calendar

February 2012

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-----|-----|-----|-----|-----|-----|-----|
| | | 1 | 2 | 3 | 4 | |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | | | |

Library Notifications

You have no materials due

Management Tools

Recommended Course:

Course:

Assoc. ID:

Add Remove

Courses

Browse 745 courses.

Search courses: Go



Team Auto-Owners Alpha Presentation

Team Auto-Owners Alpha Presentation

Importing Grades from Excel

Auto-Owners ELMS

You are logged in as Admin User (Logout)

Home ▶ Site pages ▶ Grade Importing

Navigation

Home

My home

Site pages

Participants

Blogs

Notes

Tags

Calendar

Reports

Ad-Hoc Reports

Grade Importing

Designation Tracking

Course Registration

Site news

My profile

Courses

Users

Settings

Grade Importing

Select a spreadsheet to import grades from

Choose File No file chosen

Upload

Open

CAPSTONE ▶ GradeHistory

Search GradeHistory

Organize New folder

Favorites

Desktop

Recent Places

Downloads

Libraries

Documents

Music

Pictures

Subversion

Videos

| Name | Date modified | Type | Size |
|-----------------------|-------------------|-----------------------|--------|
| April15-June15.xls | 2/19/2012 2:35 PM | Microsoft Office E... | 180 KB |
| January15-March15.xls | 2/19/2012 2:35 PM | Microsoft Office E... | 180 KB |

File name: All Files

Open Cancel



Team Auto-Owners Beta Presentation

Team Auto-Owners Beta Presentation

Recommended Courses

Auto-Owners ELMS

You are logged in as Ben Mosley (Logout)

Home ▶ Site pages ▶ Course Registration

Main menu

- Ad-Hoc Reports
- Grade Importing
- Designation Tracking
- Course Registration
- Site news
- Course Recommendation

Navigation

- Home
- My home
- Site pages
 - Participants
 - Blogs
 - Notes
 - Tags
 - Calendar

Course Registration

Recommended Courses(hide)

American College

| Code | Test Number | Cost |
|---|-------------|--------|
| HS 352 Financial Decisions for Retirement | 531 N/A | \$0.00 |

CMA

| Code | Test Number | Cost |
|---------------------------------------|-------------|--------|
| CMA 4 - Decision Analy & Info Systems | 261 N/A | \$0.00 |

IIA

| Code | Test Number | Cost |
|--------|-------------|---------|
| API 29 | N/A | \$64.50 |

Team Auto-Owners Beta Presentation

Registration Confirmation

Course Registration

35.9.22.108/moodle/mod/courseregistration/view.php?cid=9441&id=9

Course Information

Full Name:
AEI Law of [Automobile](#) Claims & Coverage Program

Code:
AEI Law of Automobile Claims & Coverage Program340

Institute:
AEI

Register:
[Window:](#)

Adjusted Cost \$0.00

Recomm

Full Cou

Filters

Institute

Exam [Wi](#)

Search C

AEI

Code

[AEI Law](#)

[AEI Law](#)

[AEI LP](#)

[AEI LI](#)

[AEI PR](#)

[AEI Worl](#)

ALU



Team Auto-Owners Beta Presentation

Team Auto-Owners Beta Presentation

Designation Tracking

Auto-Owners ELMS

You are logged in as John Doe (Logout)

Home ▶ Site pages ▶ Designation Tracking

Main menu

- Ad-Hoc Reports
- Grade Importing
- Designation Tracking
- Course Registration
- Site news

Navigation

- Home
 - My home
- Site pages
- My profile
- Courses
- Users

Designation Tracking

Top Designation Progress

| | |
|---|------|
| Associate in Risk Management | 100% |
| Associate in Underwriting | 100% |
| Associate in Insurance Accounting & Finance | 75% |
| Chartered Financial Consultant | 50% |
| Associate, Customer Service | 50% |
| Completion of all four Intro Courses | 25% |

Individual Designation Progress

Associate in Insurance Accounting & Finance ▼

IIA

| Code | Test Number | Status |
|-----------|-------------|--------|
| AI AF 111 | 111 | ✓ |
| AI AF 111 | 111 | ✓ |
| AI AF 112 | 112 | ✓ |
| AI AF 113 | 113 | ✗ |



Team Auto-Owners
Design Day

MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Team Boeing

Department of Computer Science and Engineering
Michigan State University
Spring 2012



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





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747-8 Intercontinental receives FAA Certification

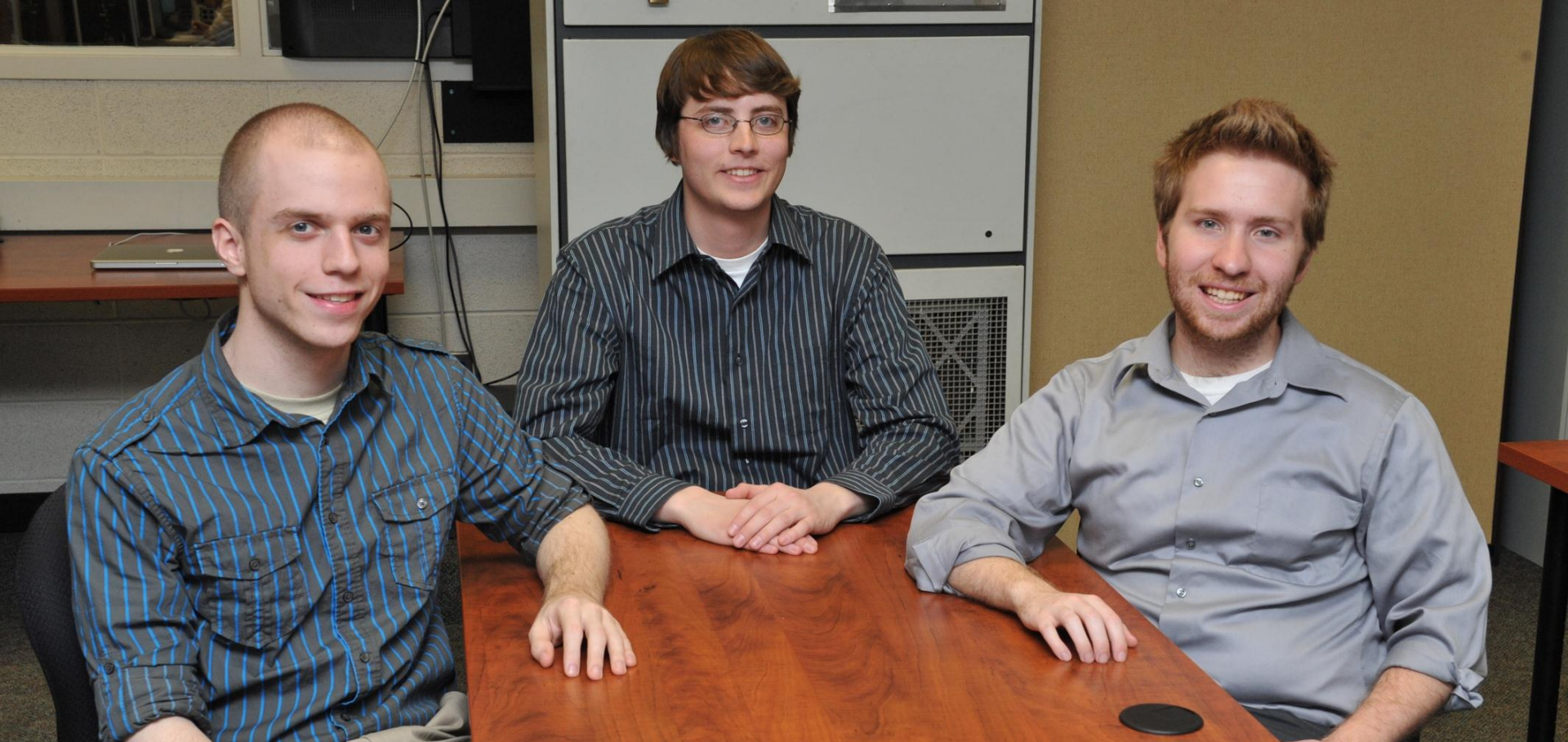
747-8 Intercontinental on track for delivery in early 2012. [More >>](#)

Team Boeing Project Overview

Design, Fly and Battle Flight Simulator

- Functionalities
 - Flight Simulator Game
 - Players Compete on Obstacle Courses
 - With Airplanes Designed by Players
- Features
 - Allow 2 to 5 Players Per Team
 - Ability to Trade Off Various Airplane Features
 - Support Joystick, Keyboard and Mouse
 - Accurate Aerodynamic Physics of Flight
 - Ability to Shoot Paintballs and See Damage
 - Secure with Encrypted Networking
- Technologies
 - C++, Python
 - Jenkins, QT Creator
 - Open Scene Graph (OSG)
 - Blender (3D Modeling)
 - Secure Internetworking, Encryption





Team Boeing

Brandon Overall, Jon Moore, David Cornelius

Screen Mockup: Server Browser

Design,
Battle
Fly.

[Single Player](#)

[Multi Player](#)

[Options](#)

[EXIT](#)

MULTIPLAYER

| Server Name | Ping | Players | Password |
|-------------|------|---------|----------|
| Server 1 | 42 | 3/6 | Yes |
| Server 2 | 67 | 6/6 | No |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Server Info

Name: Server 2
IP Address: 192.23.1.112:85432
Uptime: 4h 23m 52s
World Time: 11:30

Score: 0/0 11 0/0 11

Player List

Player 1
Player 2
Player 3
Player 4
Player 5
Player 6

The Capstone Experience

Team Boeing Project Plan

Team Boeing Project Plan Presentation

Team Boeing Project Plan Presentation

Screen Mockup

**Design,
Battle,
Fly.**

Observer Mode

Browse

Options

EXIT

BROWSE

Path

| |
|----------------------------|
| replay12302011-01-23-45.rp |
| replay12312011-02-45-12.rp |
| replay12302011-01-23-45.rp |
| |
| |
| |
| |
| |

Replay Info

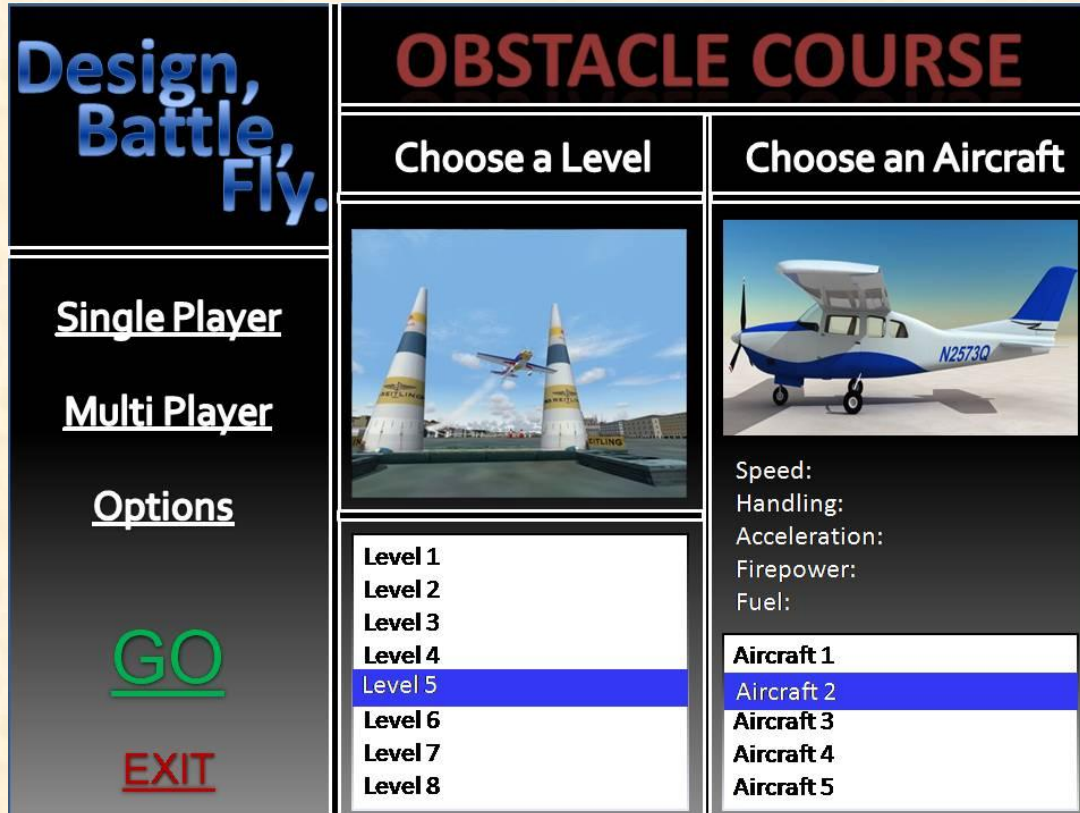
GO

Name: replay12302011-01-23-45.rp
Date Played: 12/30/11
Length: 1h 23m 45s
Server: 124.56.23.121:12345

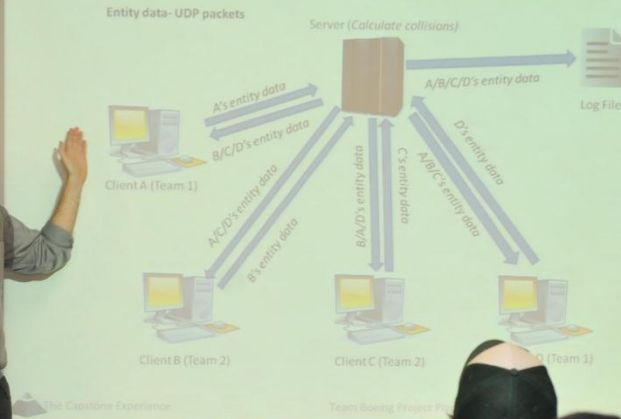
Score
Red: 12 Blue: 7

Team Boeing Project Plan Presentation

Screen Mockup



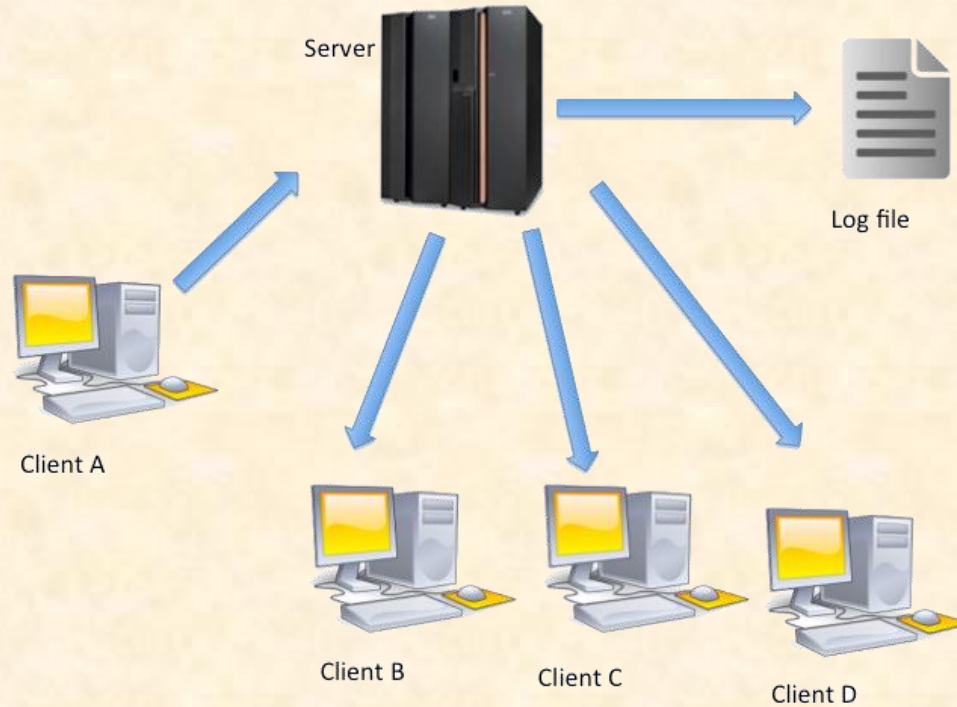
System Architecture



Team Boeing
Project Plan Presentation

Team Boeing Project Plan Presentation

Architecture Diagram





Team Boeing Alpha Presentation

Team Boeing Alpha Presentation

Single Player Menu

Design, Fly, Battle.

Single Player

Options

Play

Quit

OBSTACLE COURSE

Choose a Level



Course 1
Course 2
Course 3
Course 4

Choose an Aircraft



Acceleration:
Length:
Weight:

Top Speed:
Maneuverability:
Wingspan:

Aircraft 1
Aircraft 2
Aircraft 3
Aircraft 4

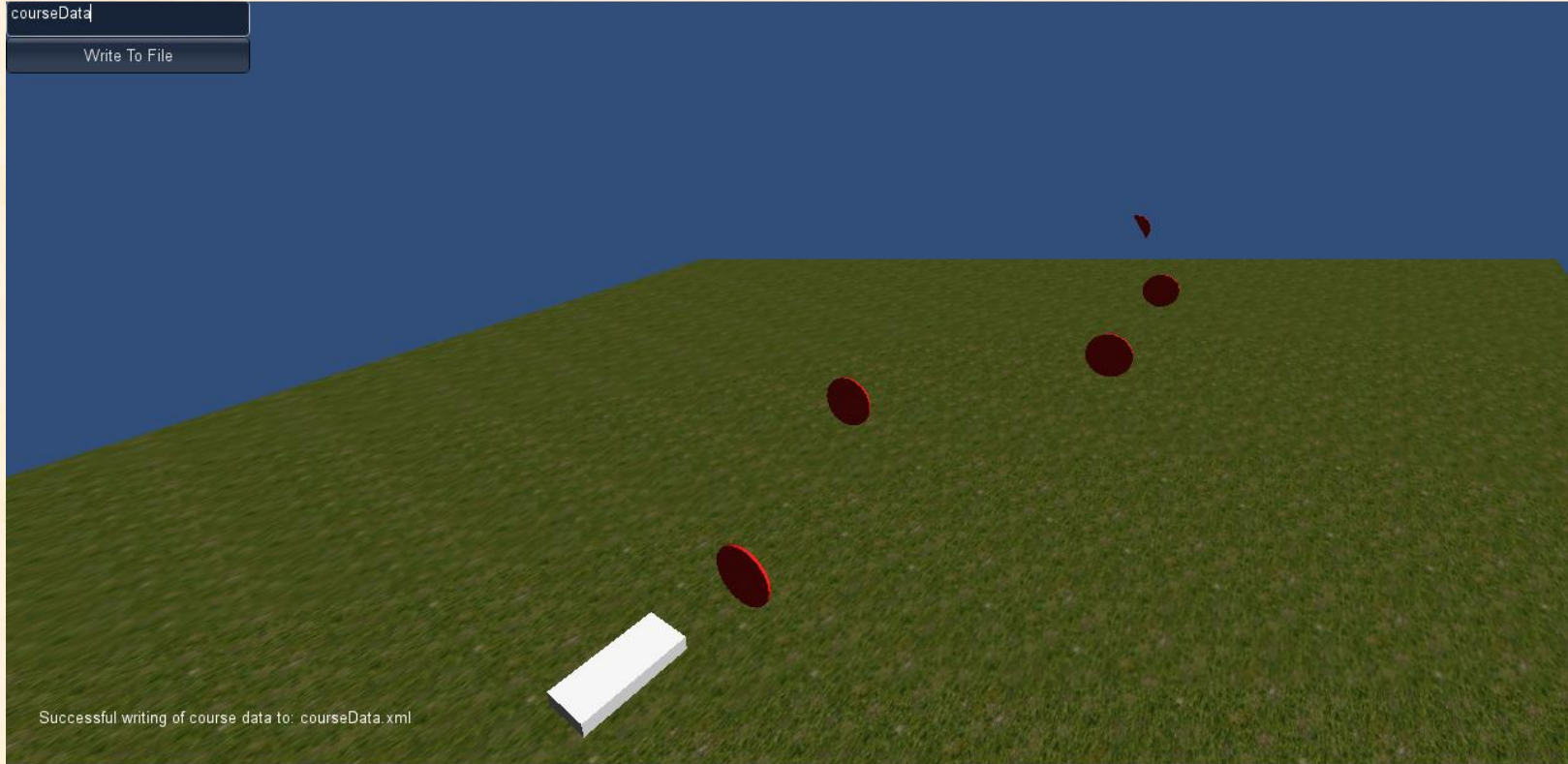




Team Boeing Alpha Presentation

Team Boeing Alpha Presentation

Course Editor (Unity 3D)





Team Boeing Beta Presentation

Team Boeing Beta Presentation

Main Menu

Design, Fly and Compete

Single Player

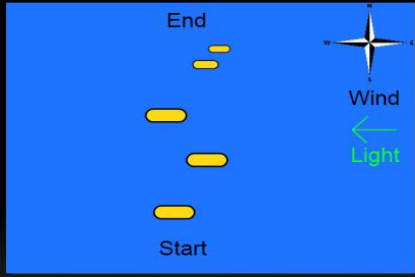
Options

Play

Quit

OBSTACLE COURSE

Choose a Level



End

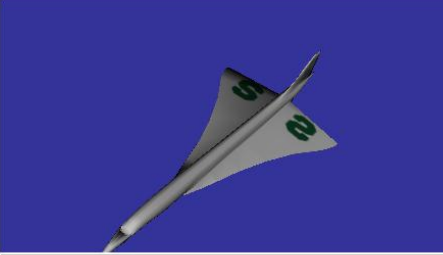
Start

Wind

Light

- Course 1
- Course 2
- Course 3
- Course 4
- Course 5
- Course 6
- Course 7

Choose an Aircraft



Acceleration: 15.0 m/s²
Length: 61.66m
Weight: 92,080 k

Top Speed: 500 m/s
Maneuverability: C+
Wingspan: 25.6 m

- Aircraft 1
- Aircraft 2
- Aircraft 3
- Aircraft 4



Team Boeing Beta Presentation

Flying in-Game

Velocity: 111 meters/s
Altitude: 362 meters
Heading: 358 (North)

Wind: 4.2 meters/s (From the East)

Fuel: 492 liters



Rings Remaining: 5
Time: 17.3323





Team Boeing
Design Day

Team Boeing Beta Presentation

Crash Result





Team Boeing
Design Day

MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Team Dow

Department of Computer Science and Engineering
Michigan State University
Spring 2012



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Innovation



INNOVATION

INNOVATION IN ACTION

RESEARCH & DEVELOPMENT

INNOVATION RESOURCES

STRATEGIC UNIVERSITY PARTNERSHIPS



At Dow, "to passionately innovate" is more than a mission statement. It's the bedrock of our culture and an integral part of our strategy for growth. It's the commitment to continually create today's and tomorrow's solutions for making the world safer, healthier, cleaner and more sustainable for all of us.

Our journey to transform invention into real innovation integrates world-class R&D resources and scientists with market intelligence and cross-functional efforts with key stakeholders around the globe. That's how Dow harnesses the power of chemistry to provide the solutions that improve our lives.

Did You Know?



Dow Energy Materials helps cell manufacturers make longer lasting, better performing & safer batteries.

Featured Video

Design to Zero

Team Dow Project Overview

Global Emissions Inventory Water Dashboard

- Functionalities
 - Visualize Global Emissions Inventory Water Data
 - Interactive World Map
 - Dual Display
 - Tabular Data
 - Graphical Mapping
- Features
 - Web-Based Dashboard
 - Display Water Data, Basin Names and Stressed Areas
 - View by Sites or Geographical Regions
 - Filter by Water Stressed Basins
 - Drill Down by Water Intake Type
- Technologies
 - Microsoft Visual Studio 2010
 - Microsoft SharePoint 2010
 - SQL Server Reporting Services



Midland, Michigan





Team Dow

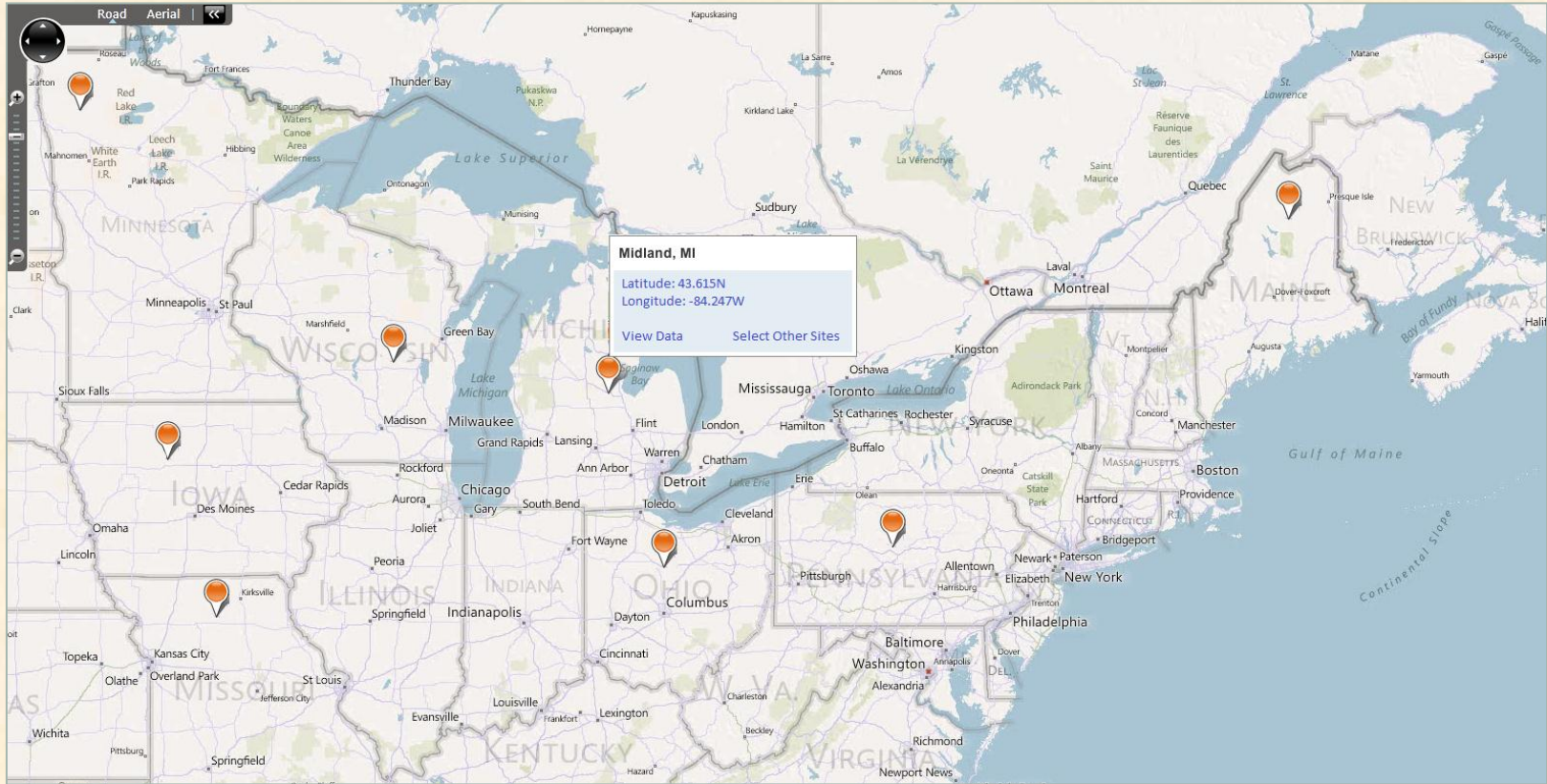
Nate Henry, James Solomon, Tony Curley



Team Dow Project Plan Presentation

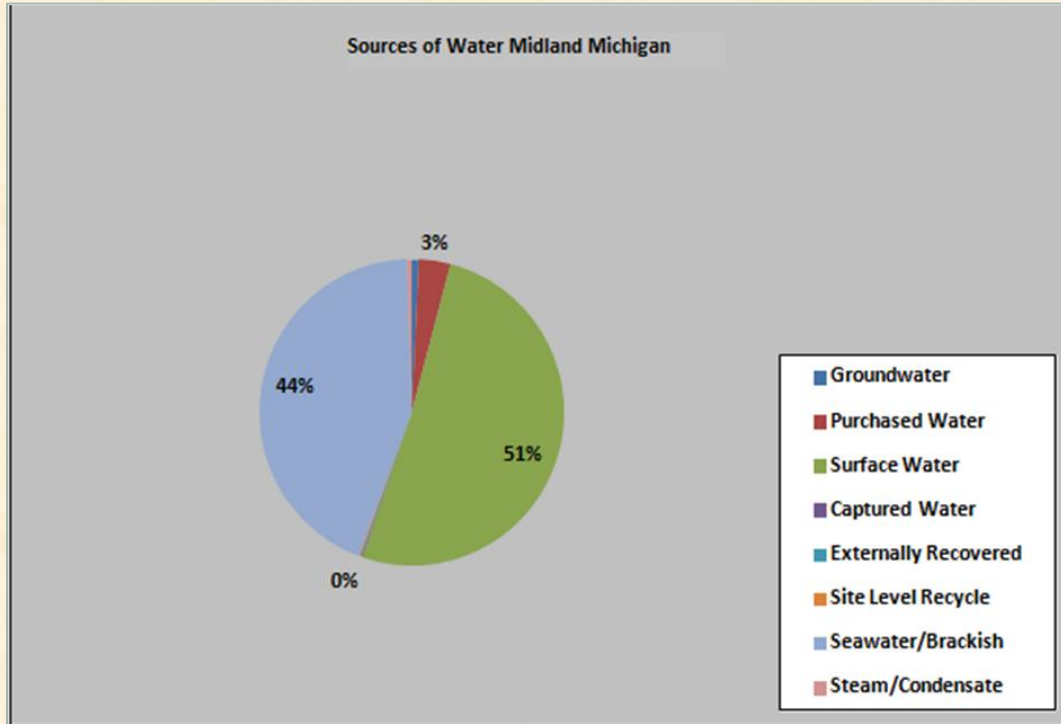
Team Dow Project Plan Presentation

Screen Mockup



Team Dow Project Plan Presentation

Screen Mockup



Orientation

Production/Intake Type
Water Intake

Year
2005 2010

Chart Type
Bar Graph

Add New Site Remove Site

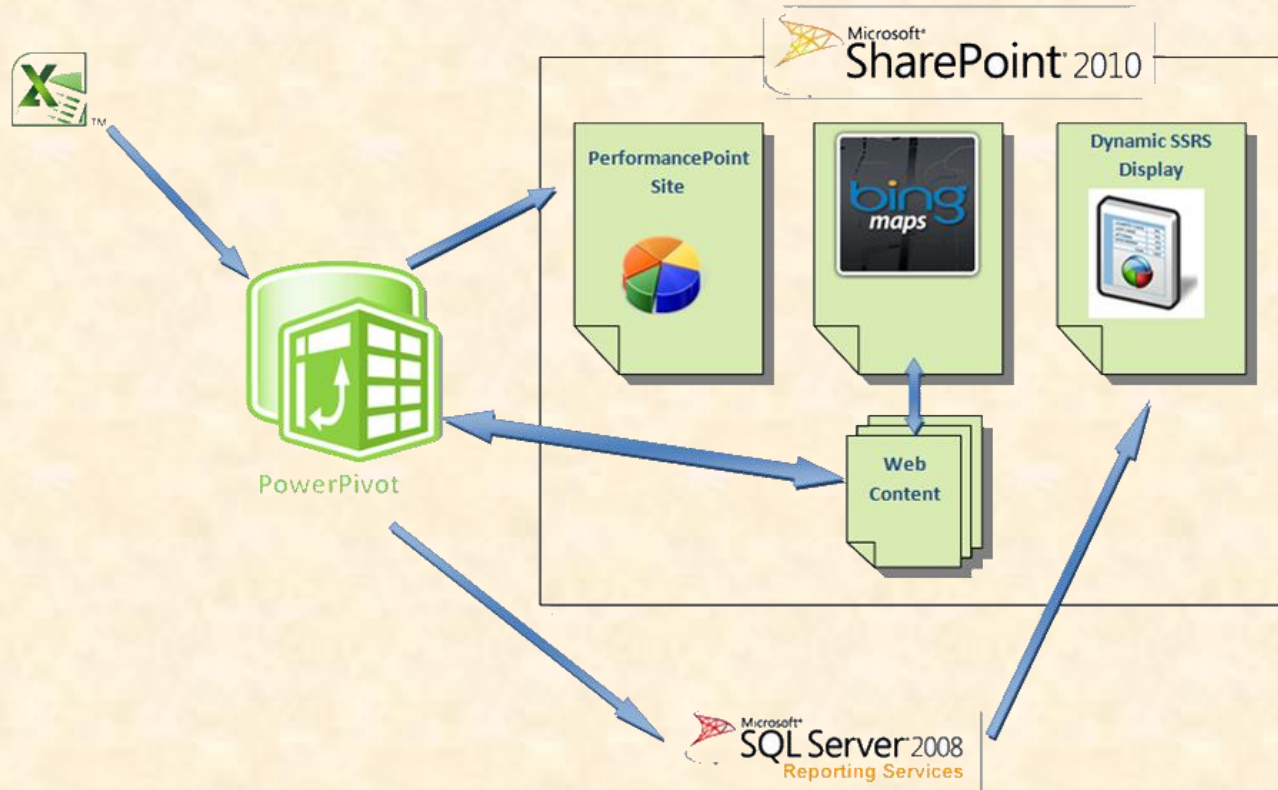
Sites
QUERETARO, MEX
TLAXCALA, MEX
TOLUCA, MEX



Team Dow Project Plan Presentation

Team Dow Project Plan Presentation

Architecture Diagram

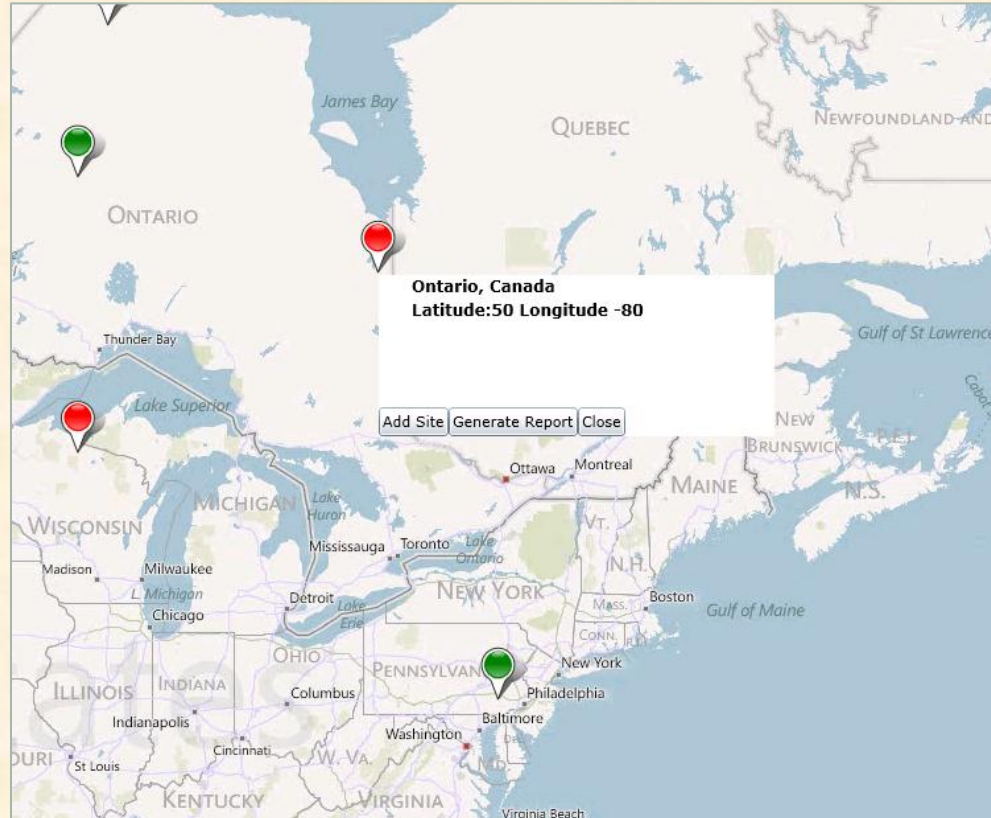




Team Dow Alpha Presentation

Team Dow Alpha Presentation

Map with Selection

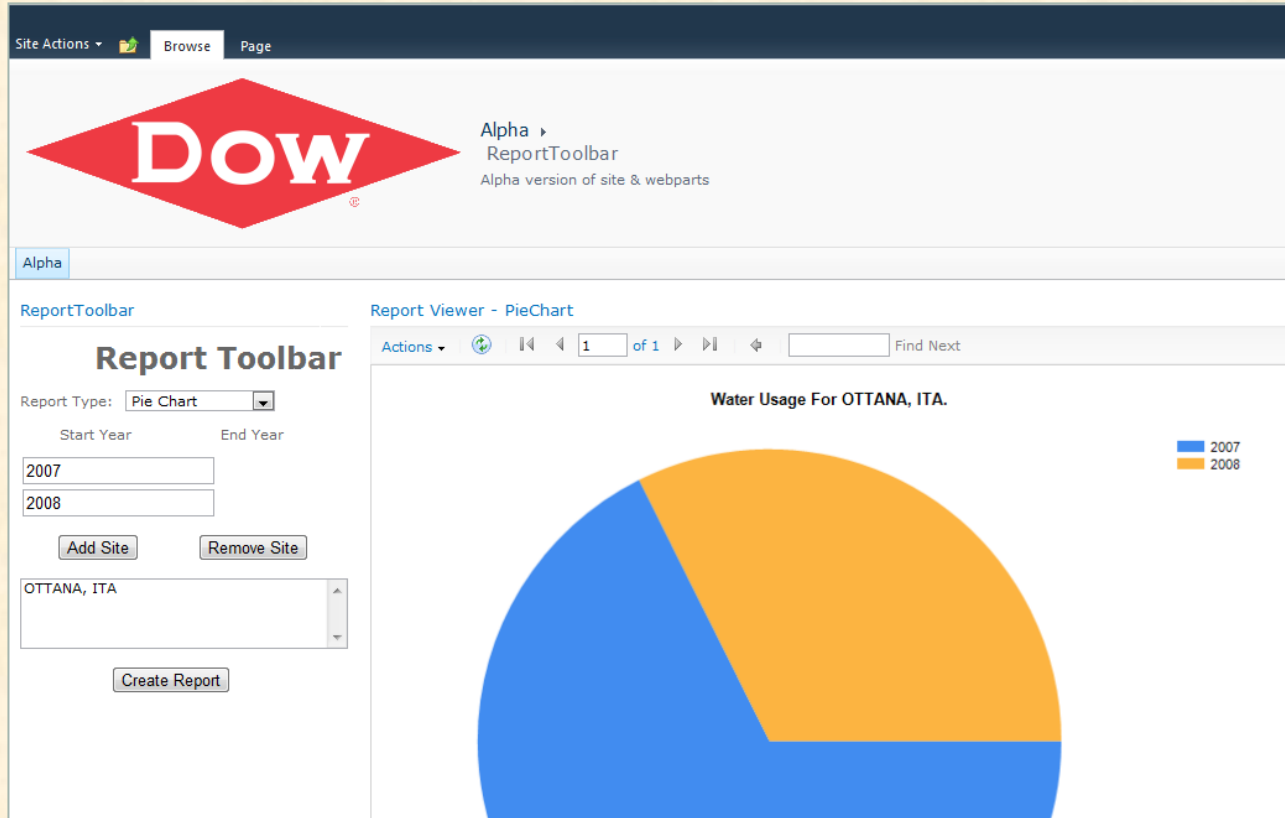




Team Dow Alpha Presentation

Team Dow Alpha Presentation

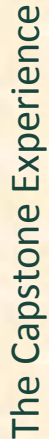
Generated Report





Team Dow Beta Presentation

Main Dashboard



Team Dow Beta Presentation

Map With Dow Sites

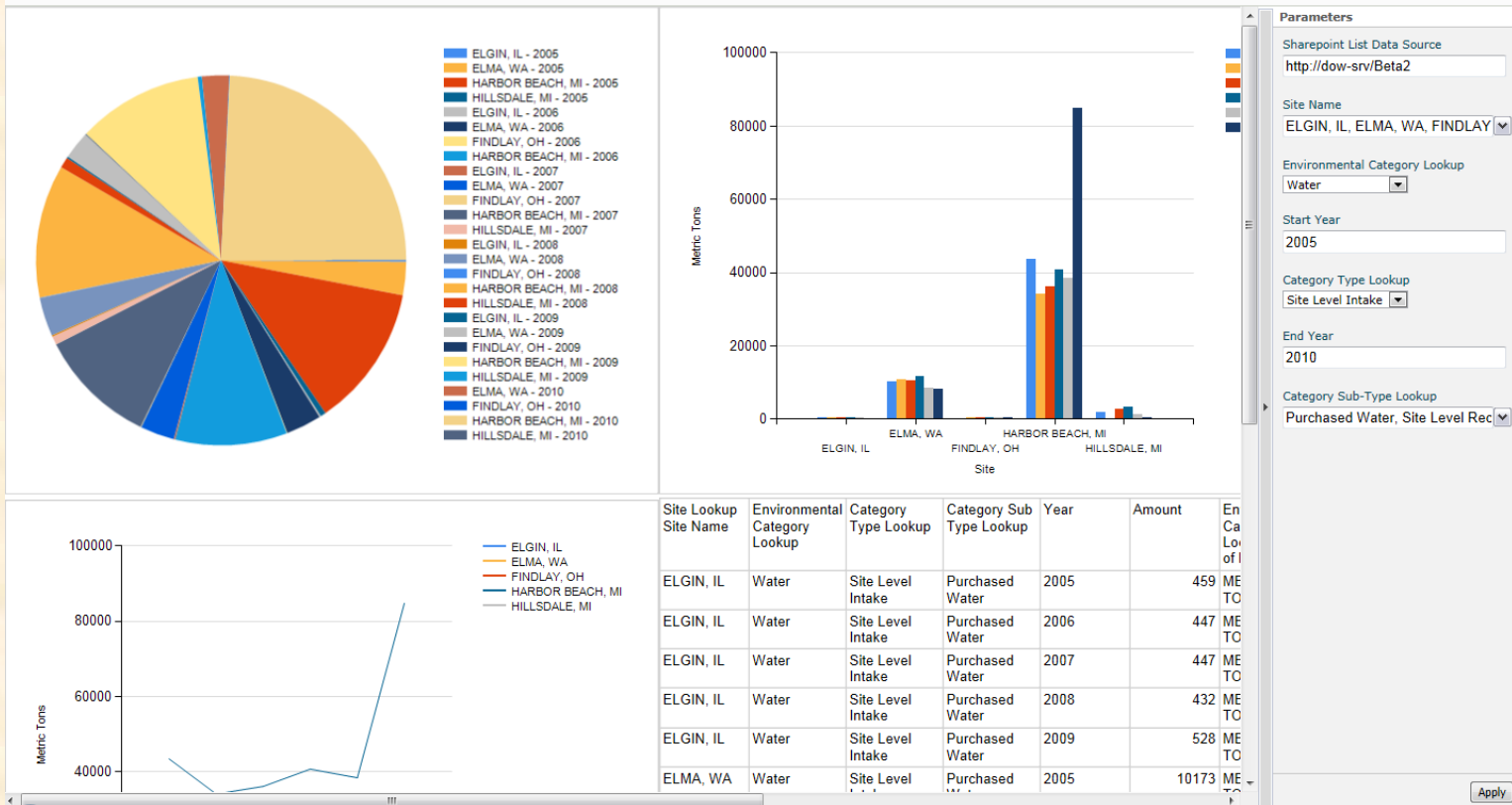




Team Dow Beta Presentation

Team Dow Beta Presentation

Map With Dow Sites





Team Dow
Design Day

MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Team GE Aviation

Department of Computer Science and Engineering
Michigan State University
Spring 2012



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GE Aviation

 → SEARCH

[home](#)


[our engines](#)

[our services](#)

[our systems](#)

[our company](#)

[press center](#)

 [worldwide](#)

GENx-Powered Delivery >

Congratulations to Boeing on its first delivery of the GENx-powered 747-8F to Cargolux



Team GE Aviation Project Overview

Mobile Avionics Weather

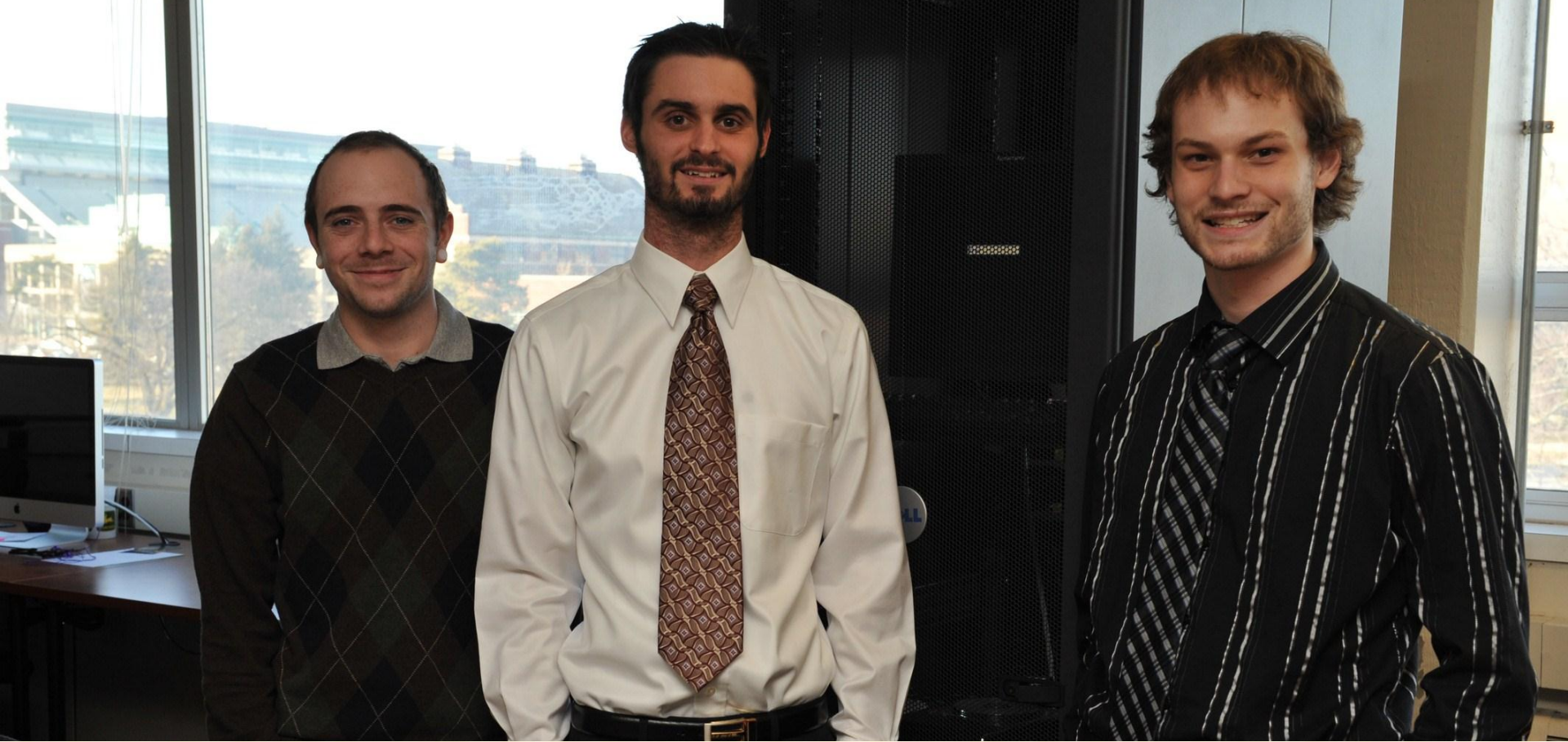
- Functionalities
 - Display Weather Maps
 - For Aviation Industry
 - On Mobile Devices
 - Apple iPad
 - Google Android Tablets
- Features
 - Intuitive, Easy to Use Interface
 - Visualize Complex Weather Data
 - Support Multiple Users
 - Pilots
 - Air Traffic Controllers
 - Ground Controllers
- Technologies
 - Apple iOS iPhone/iPad SDK, C, Objective-C
 - Google Android SDK, Java



Grand Rapids, Michigan

The Capstone Experience





Team GE Aviation

Mike Dunn, , Eric Cook, Drew Space



Team GE Aviation Project Plan Presentation

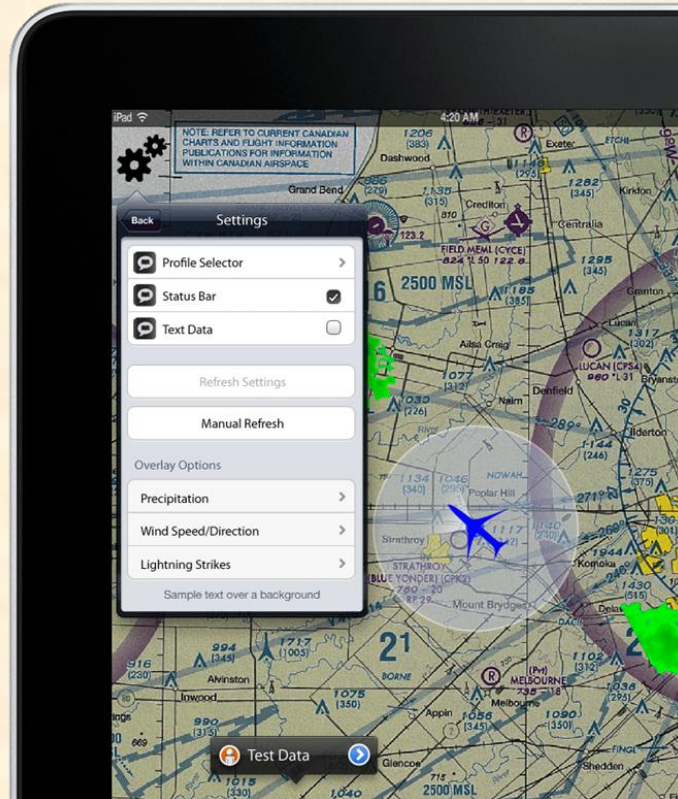
Team GE Aviation Project Plan Presentation

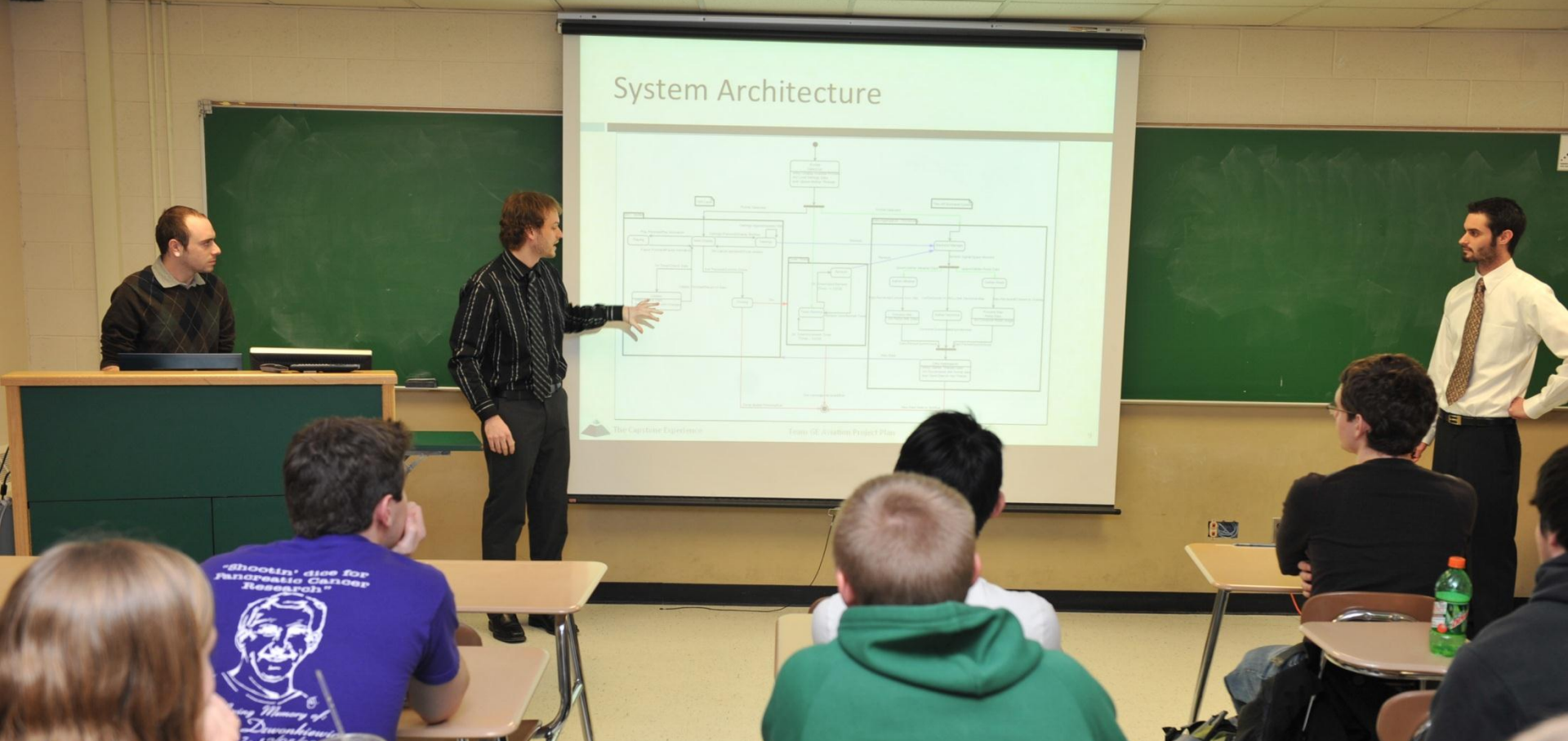
Screen Mockup



Team GE Aviation Project Plan Presentation

Screen Mockup

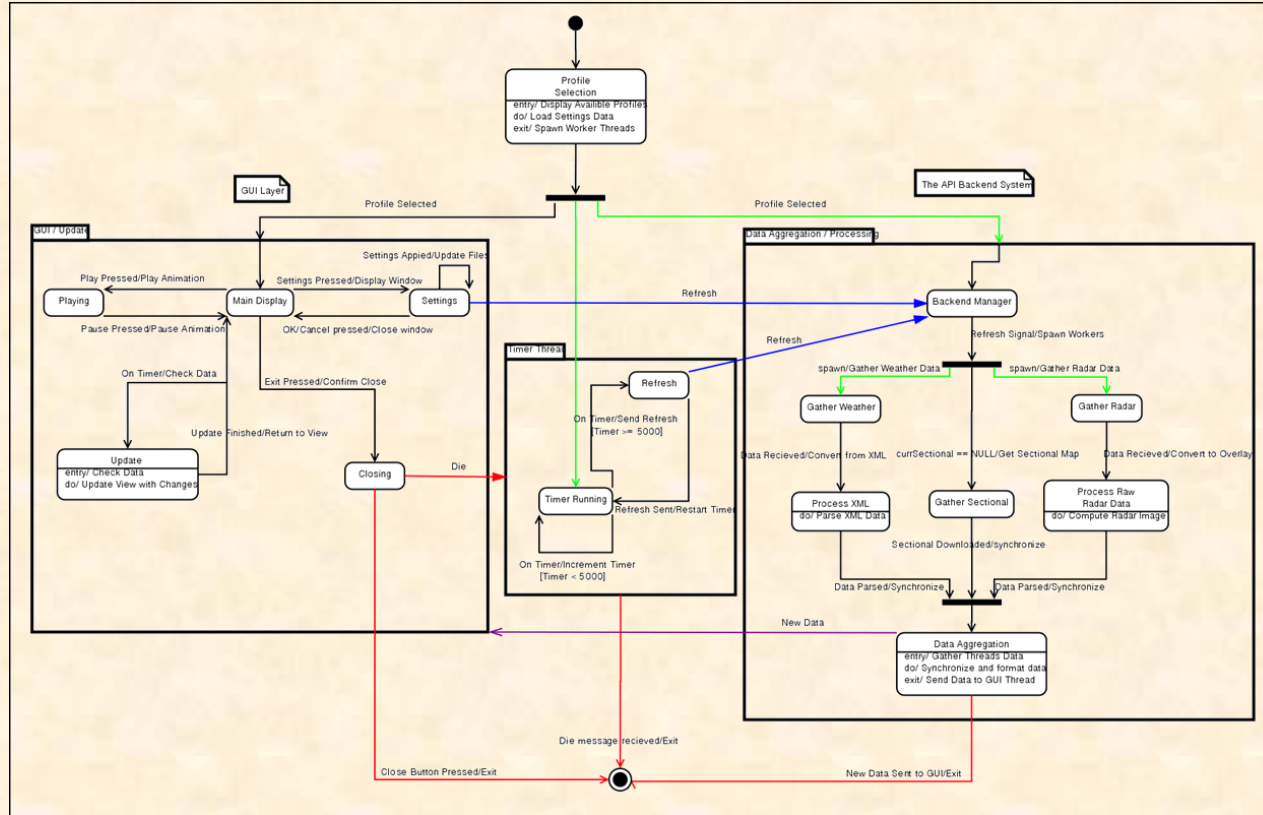




Team GE Aviation Project Plan Presentation

Team GE Aviation Project Plan Presentation

Architecture Diagram

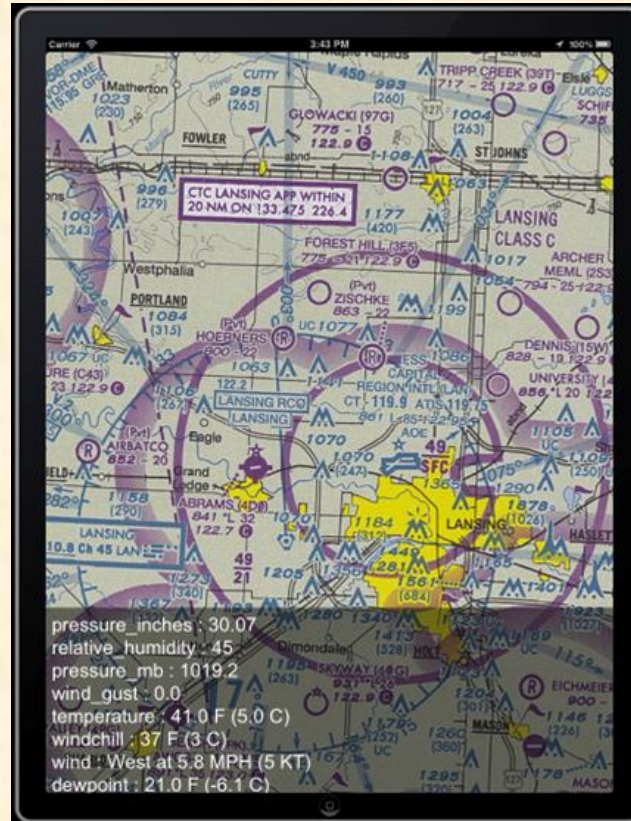




Team GE Aviation Alpha Presentation

Team GE Aviation Alpha Presentation

Main View

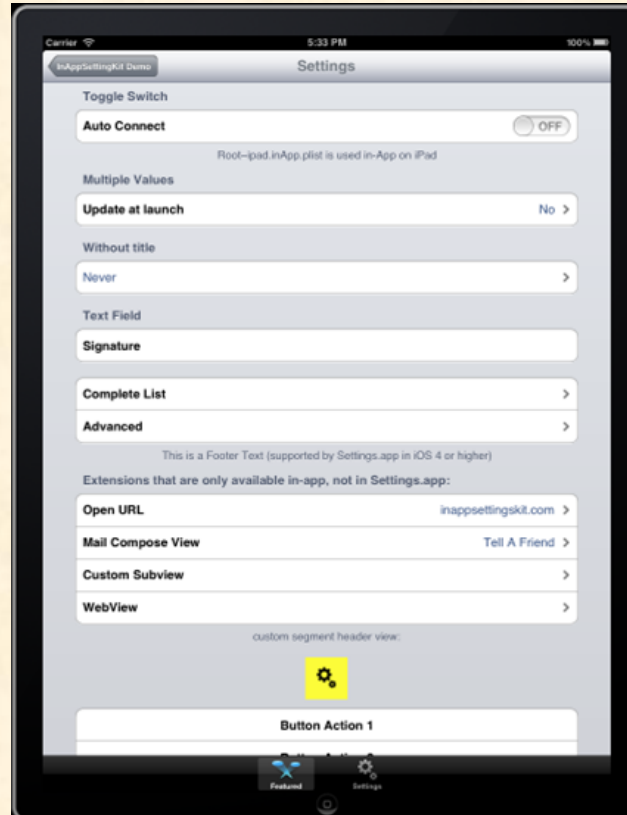




Team GE Aviation Alpha Presentation

Team GE Aviation Alpha Presentation

Main View





Team GE Aviation Beta Presentation

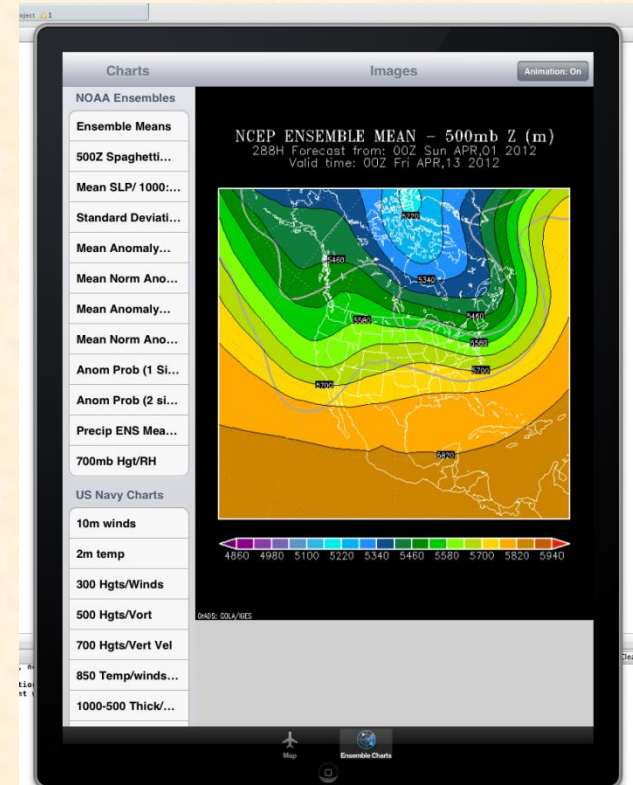
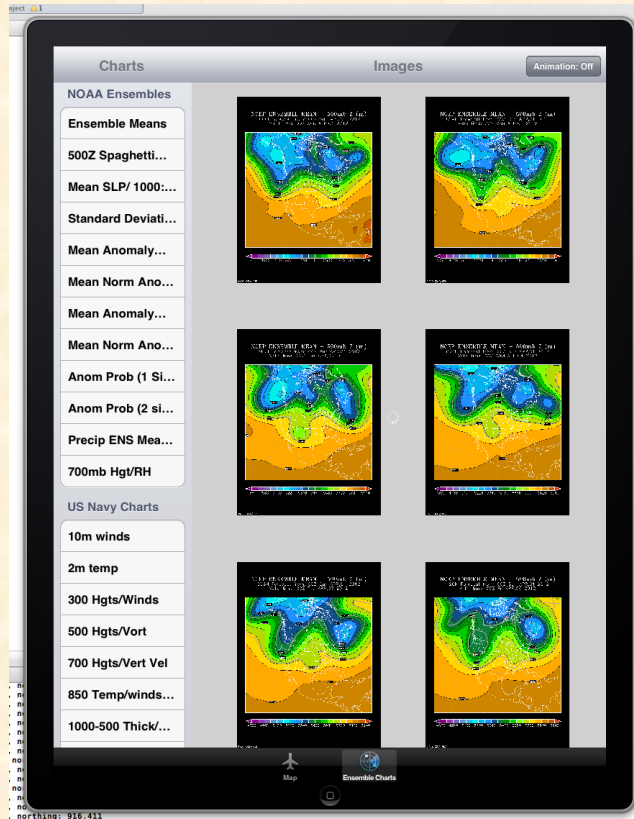
Team GE Aviation Beta Presentation

Map View



Team GE Aviation Beta Presentation

Main Ensemble View

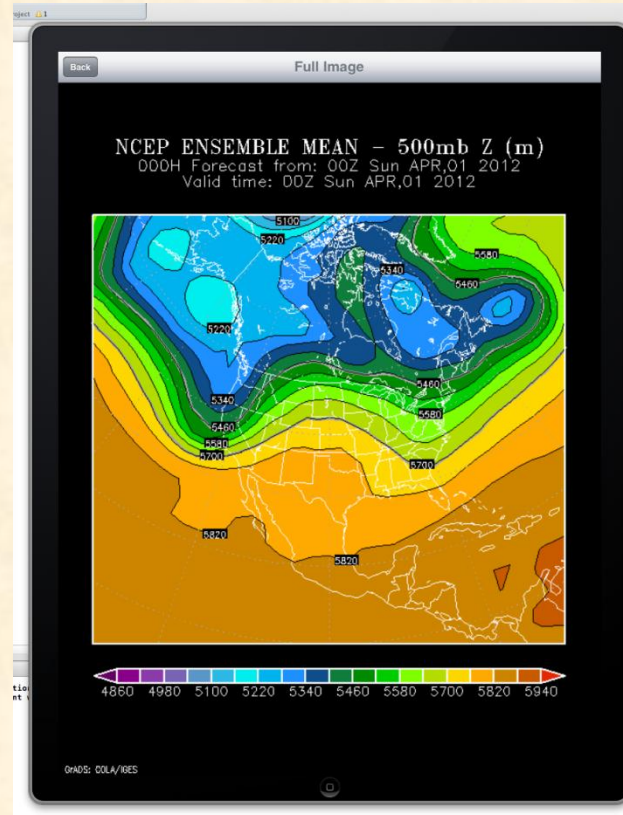




Team GE Aviation Beta Presentation

Team GE Aviation Beta Presentation

Full Screen Ensemble View





Team GE Aviation
Design Day

MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Team Meijer

Department of Computer Science and Engineering
Michigan State University
Spring 2012



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...to Professionals

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Help
Order Status
Your Account

Pharmacy
Photo
Wish List
More... ▼

Welcome. Sign in or create an account for exclusive savings.

You Can Still Order Select Items
to Arrive by Christmas! Shop Now ▶



ALL DEPARTMENTS

SEARCH

[View Cart/Checkout](#)

▼ 0 items

\$0.00

The Holiday Shop ▶

- Baby & Toddler ▶
- Clothing & Accessories ▶
- Crafts & Art Supplies ▶
- Electronics & Computers ▶
- Furniture & Home ▶
- Garden & Outdoor ▶
- Gift Cards ▶
- Grocery ▶
- Health & Beauty ▶
- Home Improvement ▶
- Jewelry & Watches ▶
- Kitchen & Dining ▶
- Pet Supplies ▶
- Sporting Goods ▶
- Team Fan Shop ▶

THIS WEEKEND ONLY!

SAVE 15%
on Orders of \$50 or More*

ONLINE
ONLY

Promo
Code:
150FF50

*Excludes gift cards, electronics and video game consoles, accessories & games. See details. ▶

There's Still Time!

Order by Dec. 18
Get it by Christmas

No Extra Shipping Cost!

Shop Items That Ship by Christmas ▶

*Qualified items MUST be within the Quick Ship category, ship to a qualifying area, have a maximum time of 1-2 business days, and a delivery shipping method of Ground only. Learn more ▶



Team Meijer Project Overview

Food Safety Audits and Reports

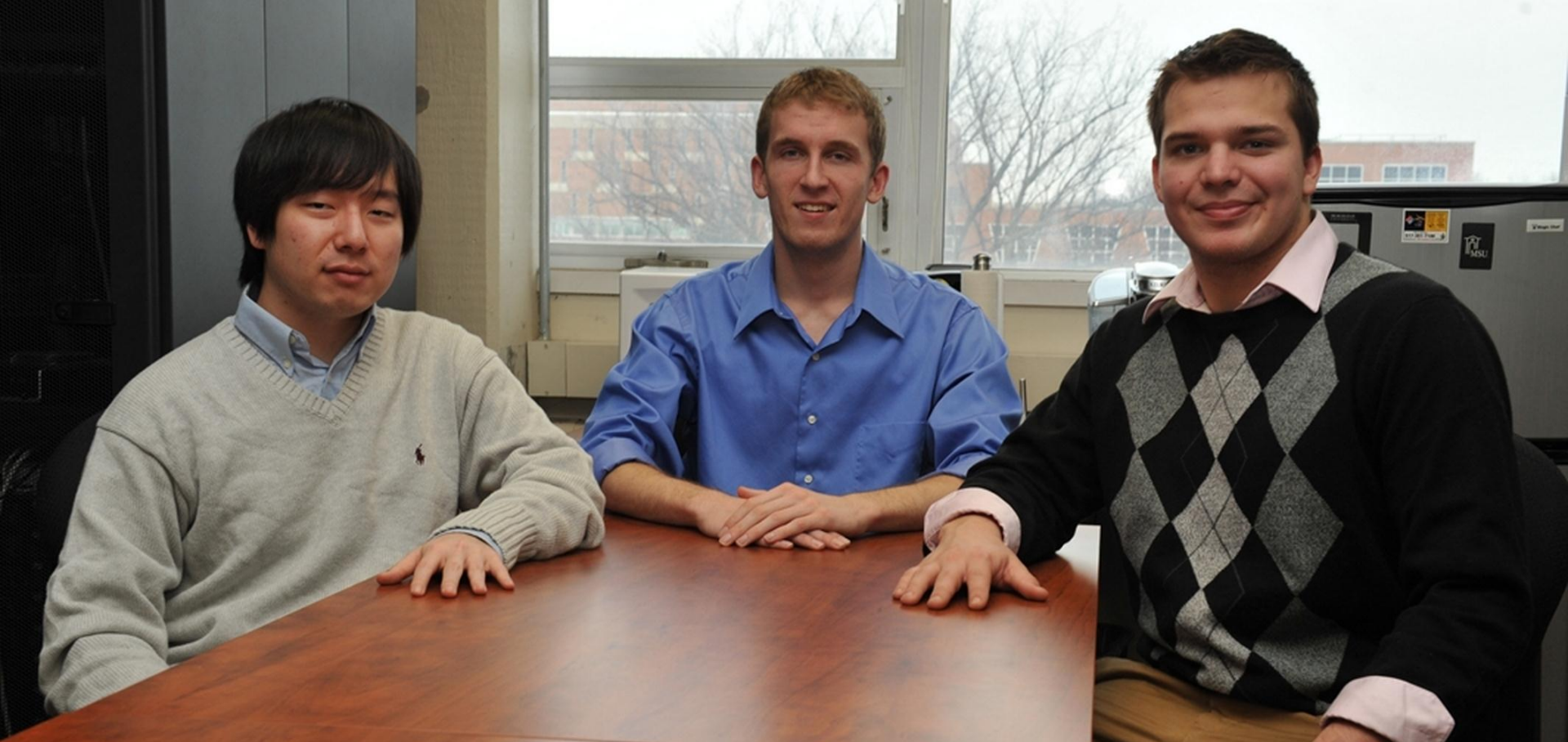
- Functionalities
 - Food Safety Inspection System
 - Used by Meijer Team Members
 - For Meijer Stores
- Features
 - HTML5-Based Web App
 - Support Touchscreen Tablets
 - iPad
 - Android
 - Various User Levels
 - Store Director Audit
 - Store Assessment
 - Store Audit
- Technologies
 - Microsoft SQL Server 2008 R2, SQL Server Reporting Services
 - Microsoft C#/.NET
 - CSS, HTML 5
 - XML (Extensible Markup Language)
 - SOAP (Simple Object Access Protocol)



meijer[®]

Grand Rapids, Michigan





Team Meijer

Kyle Hine, WooSeok Chung, Patrick Bruening



Team Meijer Project Plan Presentation

Screen Mockup

The Capstone Experience

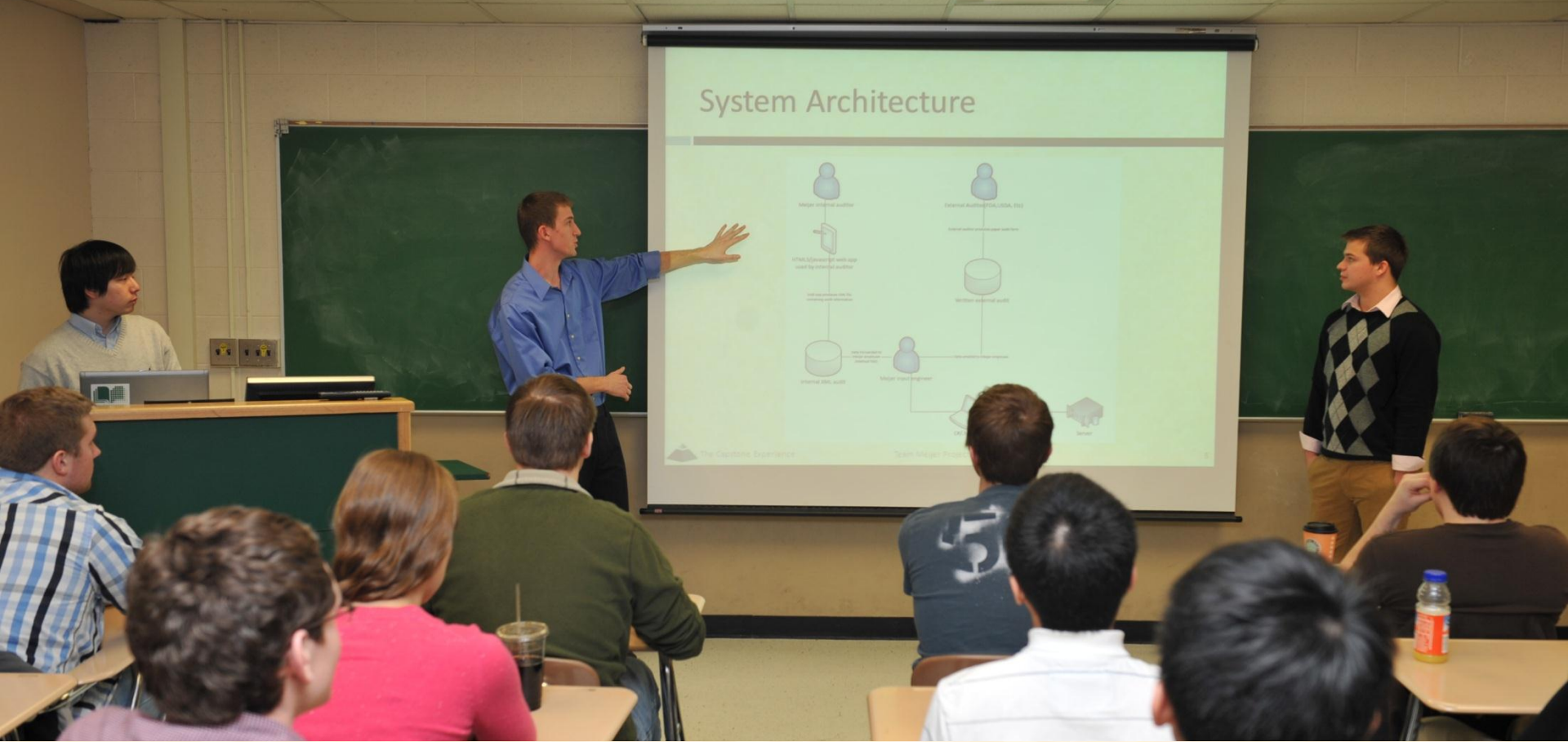
Team Meijer Project Plan Presentation

Screen Mockup

| | | | | | | |
|---------------------------|--|--|--|--|--|--|
| Non Critical Descriptions | | | | | | |
| Seizure Descriptions | | | | | | |
| Sample Descriptions | | | | | | |
| Other Descriptions | | | | | | |

| | | | | | | | |
|-----------------|---------------------------------|-----------------|------------------------------|-----------------------------------|------------------|--------------------|----------------------|
| Dropdown Values | Agency | InspectionType | Temp Control | Cleaning/Sanitizing | Pest | Hygiene | Cross Contamination |
| | State Department of Agriculture | 30-Day | Hot holding | Cleaning of food surfaces | Birds | Hand washing | Food handling |
| | County Health Department | Complaint | Cold holding | Cleaning of equipment | Flies | Glove use | Food equipment |
| | City Health Department | Consultation | Cooling procedures | Storage of chemicals | Fruitflies/Gnats | Uniform | Food storage |
| | Weights And Measures | Follow-Up | Reheating procedures | Sanitizing techniques | Moths | Hair restraints | Allergens |
| | USDA | Foodborne | Out of temperature foods | Chemicals misuse | Roaches | Eating/Drinking w/ | Food prep techniques |
| | Meijer | Garden Center | Out of temperature equipment | Mislabeling of sanitizer/chemical | Rodents | Other | Mislabeling |
| | Other | Opening | Out of temp deli | Meat Grinder | Ants | | Bare hand Contact |
| | | Pre-Licensing | Prepackaged | Timely Cleaning | Other | | Drain Lines |
| | | Pricing/Weights | Other | Other | | | Other |
| | | Standard | | | | | |
| | | Temporary | | | | | |
| | | Cool | | | | | |
| | | Egg Board | | | | | |
| | | Seizure | | | | | |
| | | Vendor | | | | | |
| | | Internal Audit | | | | | |
| | | Sample | | | | | |
| | | Other | | | | | |

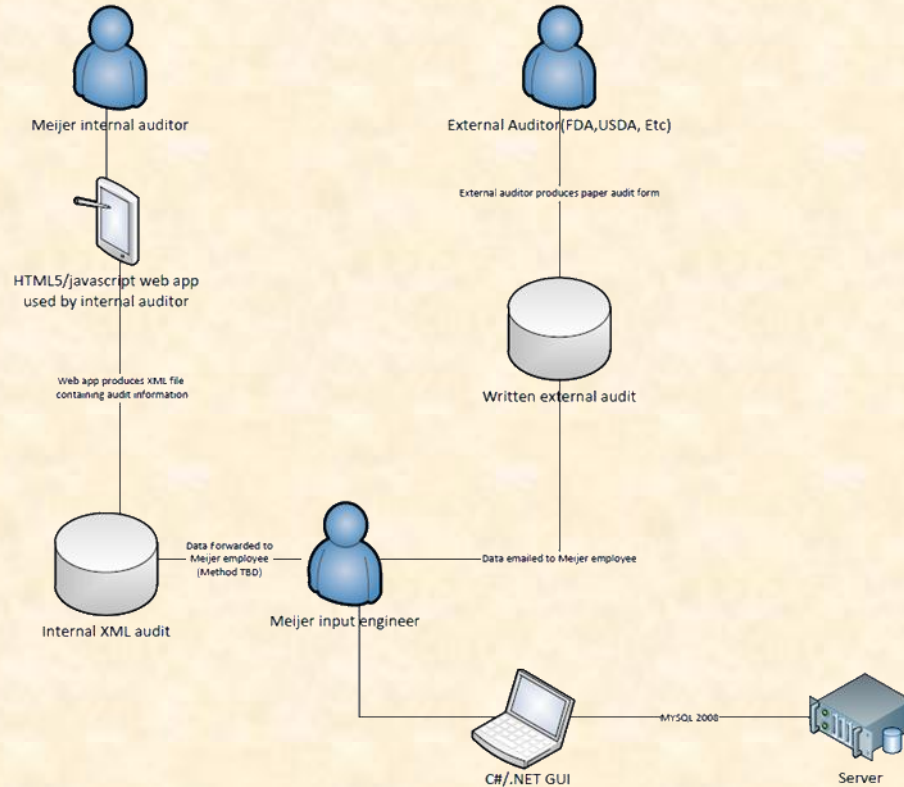




Team Meijer Project Plan Presentation

Team Meijer Project Plan Presentation

Architecture Diagram





Team Meijer Alpha Presentation

Team Meijer Alpha Presentation

Temperature Controls

Meijer Internal Audit Form

Produce

Cut Fruit

41

Fresh Room

41

Solid Wall

37

Other

43



Audit Info



Produce



Deli



Meat

Seafood

Score





What's left to do?

- Visualize Reports
- Finalize Tablet Interface
- Full XML Loading Support
- Client Feedback

The CardStone Experience

Team Meijer Alpha Presentation

Team Meijer
Alpha Presentation

Team Meijer Alpha Presentation

Web Dashboard

Cool Inspection

| Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Descriptions |
|--|----------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----------------------|
| <input type="checkbox"/> Fruits | <input type="text"/> | | | | | | | | | | | | | | | 1 | <input type="text"/> |
| <input type="checkbox"/> Vegetables | <input type="text"/> | | | | | | | | | | | | | | | 1 | <input type="text"/> |
| <input type="checkbox"/> Nuts | <input type="text"/> | | | | | | | | | | | | | | | 1 | <input type="text"/> |
| <input type="checkbox"/> Fish and Shelfish | <input type="text"/> | | | | | | | | | | | | | | | 1 | <input type="text"/> |
| <input type="checkbox"/> Beef and Veal | <input type="text"/> | | | | | | | | | | | | | | | 1 | <input type="text"/> |
| <input type="checkbox"/> Hygiene | <input type="text"/> | | | | | | | | | | | | | | | 1 | <input type="text"/> |
| <input type="checkbox"/> Pork | <input type="text"/> | | | | | | | | | | | | | | | 1 | <input type="text"/> |
| <input type="checkbox"/> Chicken | <input type="text"/> | | | | | | | | | | | | | | | 1 | <input type="text"/> |
| <input type="checkbox"/> Lamb and Goat | <input type="text"/> | | | | | | | | | | | | | | | 1 | <input type="text"/> |

| | |
|--------------------------|----------------------|
| NonCritical Descriptions | <input type="text"/> |
| Seizure Descriptions | <input type="text"/> |
| Sample Descriptions | <input type="text"/> |
| Other Descriptions | <input type="text"/> |

Submit





Team Meijer
Beta Presentation








Team Meijer Beta Presentation

Splash Screen

Audit Info

| | |
|---|-----------------|
| <input type="text" value="106"/> | Store # |
| <input type="text" value="Routine"/> | Assessment Type |
| <input type="text" value="03/31/2012"/> | Date |
| <input type="text" value="West"/> | region |

Audit Info



Team Meijer Beta Presentation

Temperature Controls








Cold Chain Management

Section 1/ Deli

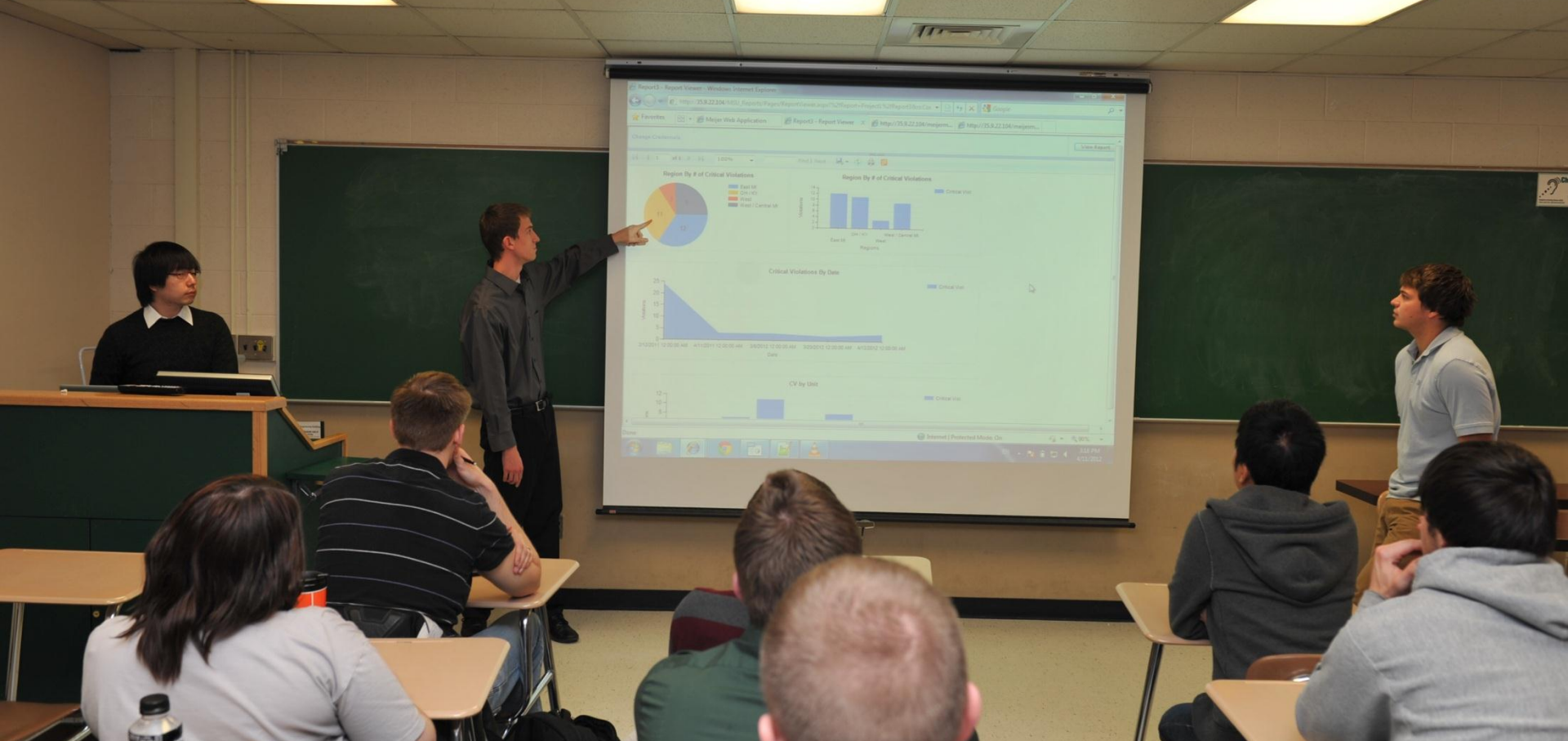
| | |
|-------------------------------------|----------------|
| <input type="text" value="40"/> | Service Case 1 |
| <input type="text" value="29"/> | Service Case 2 |
| <input type="text" value="Temp F"/> | Cheese Wall |
| <input type="text" value="Temp F"/> | Other |

Produce **Deli** Meat Seafood Gas Station Misc

10





Team Meijer Beta Presentation

Team Meijer Beta Presentation

Web Dashboard



REGULATORY INSPECTION

| | | | | | |
|-----------------|-----------------------|-------------------------------|-----------|-------------------------|---|
| Region Title | Northern | Inspection Agency | City HD | Total Violations | 2 |
| Market Title | Indiana | Inspection Agency Other Desc. | | Critical Violations | 2 |
| Unit # | 246 | Area of Inspection | | Non-Critical Violations | 0 |
| Inspection Date | 3/31/2012 12:00:00 AM | Inspection Type | Complaint | Complaints | |

Critical Violations

| | Deli | Food Service | Meat | Produce | Bakery | Seafood | Grocery | Gas Station | Vendor | Descriptions |
|--|------|--------------|------|---------|--------|---------|---------|-------------|--------|--------------|
| <input type="checkbox"/> Cold Chain Temperature Management | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | |
| <input type="checkbox"/> Cleaning/Sanitizing | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | |
| <input type="checkbox"/> Pest Control | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | |
| <input type="checkbox"/> Food Safety | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ | ✗ | ✗ | |
| <input type="checkbox"/> Hygiene | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | |
| <input type="checkbox"/> Contamination Control | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ | |
| <input type="checkbox"/> Plumbing | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | |

Main Menu

Load

Food Safety / Seafood

- ☐ Date Marking
- ☐ Dented Cans
- ☐ Expired Formula
- ☐ Expired Product
- ☒ Recall
- ☐ Rotation
- ☐ Other

OK

Check All

Uncheck All



Meijer Food Safety Audits and Reports

Meijer is a family-owned chain of supermarkets committed to providing quality food and products to its customers all across the Midwestern United States. Health and food safety standards are an important part of the culture at Meijer.

Meijer has two types of health and food safety inspections, internal and external. Meijer employees complete internal audits with each department being graded with an effectiveness score. External audits are conducted by local, state, and food safety agencies like the USDA.

Currently, internal audits are done by paper and pencil. The resulting audits must be entered subsequently into a computer database. Safety violations are counted manually.

Our Food Safety Audits and Reports system replaces the pencil and paper system with a web-based system.

A tablet-based web application is used by internal inspectors within each store. Upon completion, the results of the inspections are automatically uploaded into Meijer's central health and food safety database.

A second web application is used by Meijer managers to view and print reports. The reports are generated by store, based on a specified date range. The reports can be viewed and printed.

Our web applications are written using HTML 5, Java Script, ASP.NET, and C#. Microsoft SQL Server 2008 is the database engine. Reports are generated using SQL Server Reporting Services.

er Standards
meijer
Lower Prices

Team Meijer Design Day

The Capstone Experience

Team Motorola Mobility

Department of Computer Science and Engineering
Michigan State University
Spring 2012



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...to Professionals*



MOTOROLA

CONSUMERS

VIDEO SOLUTIONS

Sign Up for Email Updates

Cart (0) - Checkout

Search



MOBILE PHONES

TABLETS

ACCESSORIES

ALL PRODUCTS

SOFTWARE/APPS

STORE

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XPRT



DROID



Droid



Droid



ATRIX 2

**CHECK OUT**

Team Motorola Mobility Project Overview

Context Driven Content Delivery

- Functionalities
 - Provide Enhanced Television Program Information
 - Actor Biographies
 - Upcoming Actor Appearances on Talk Shows
 - Merchandise Seen on Show
 - Pushed to Mobile Devices
 - While Consumer Watches Content
 - Presented in Non-Intrusive Manner
- Features
 - End-to-End Framework
 - Extend Existing Sync Framework
 - Collect and Persist Contextual Data
 - Collect and Resolve Location Context and Content
 - Present Secondary Content to End User
 - Permit Authoring of Rules
 - Collect and Persist Application Usage
- Technologies
 - Android Development (Java)
 - Java (Servlets, JEE, JSE)
 - Web Development (RESTful, XML, JSON, JavaScript, jQuery)
 - Database (iBatis, Hibernate, MySQL)
 - Messaging using Active MQ
 - Hbase, Hadoop
 - Synchronized Program Content Delivery, Fall 2011



MOTOROLA

Libertyville, Illinois





Team Motorola Mobility
Jason Yi, Cory Harter, Linwei Zhu



Team Motorola Mobility Project Plan Presentation

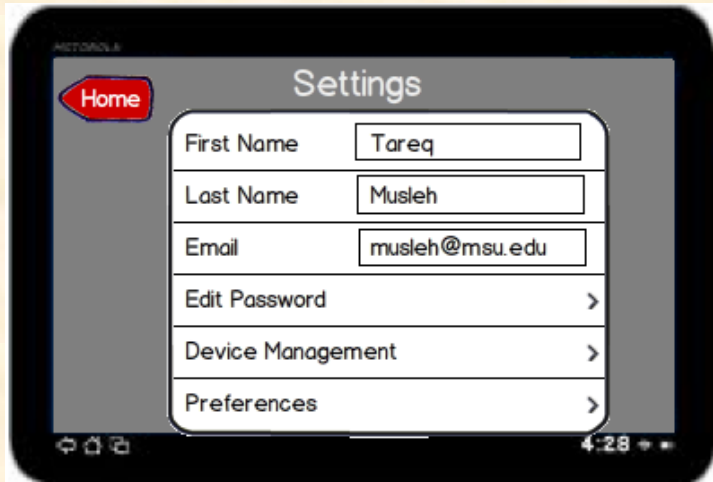
Team Motorola Mobility Project Plan Presentation

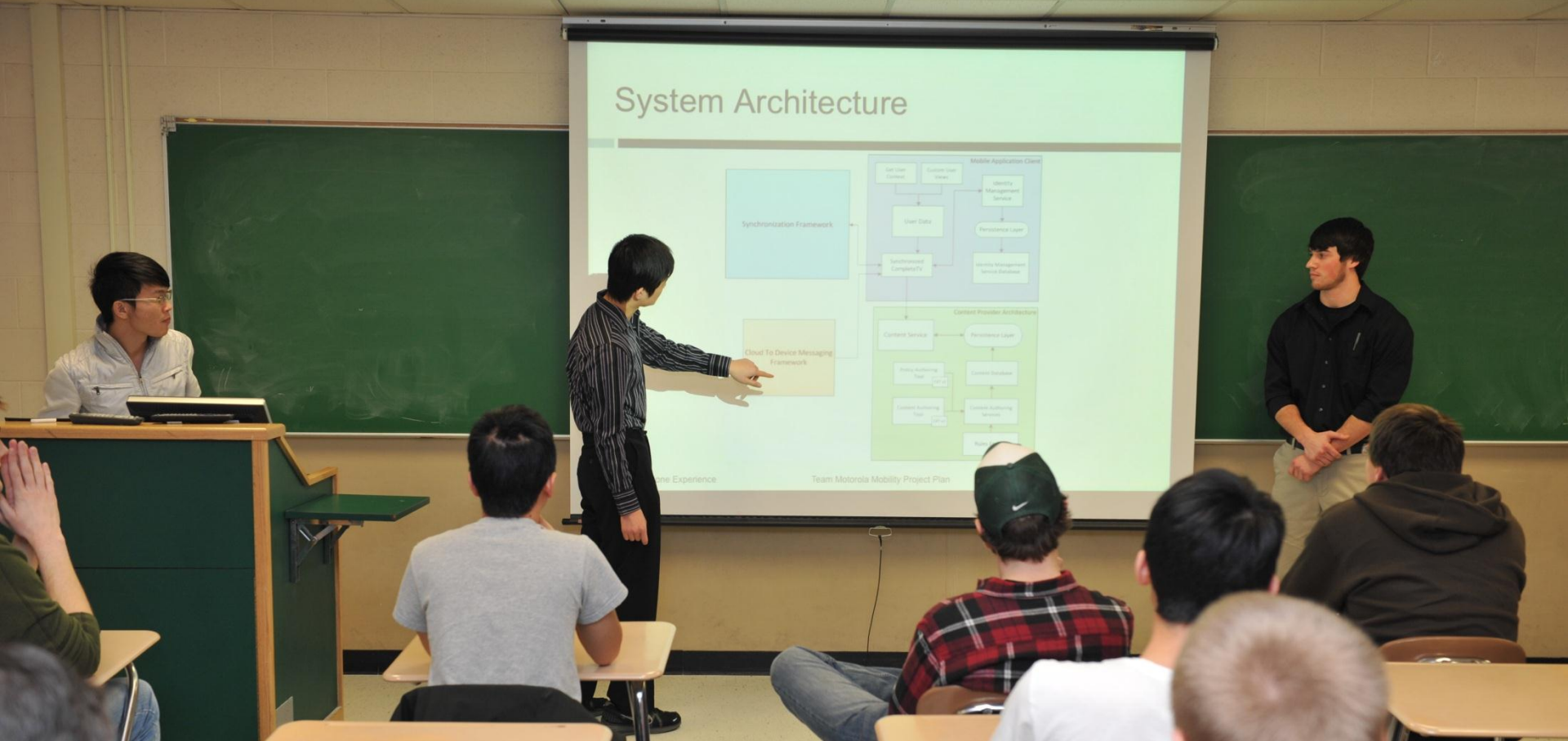
Screen Mockup



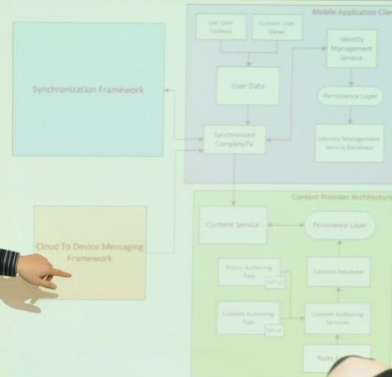
Team Motorola Mobility Project Plan Presentation

Screen Mockup





System Architecture



Team Experience

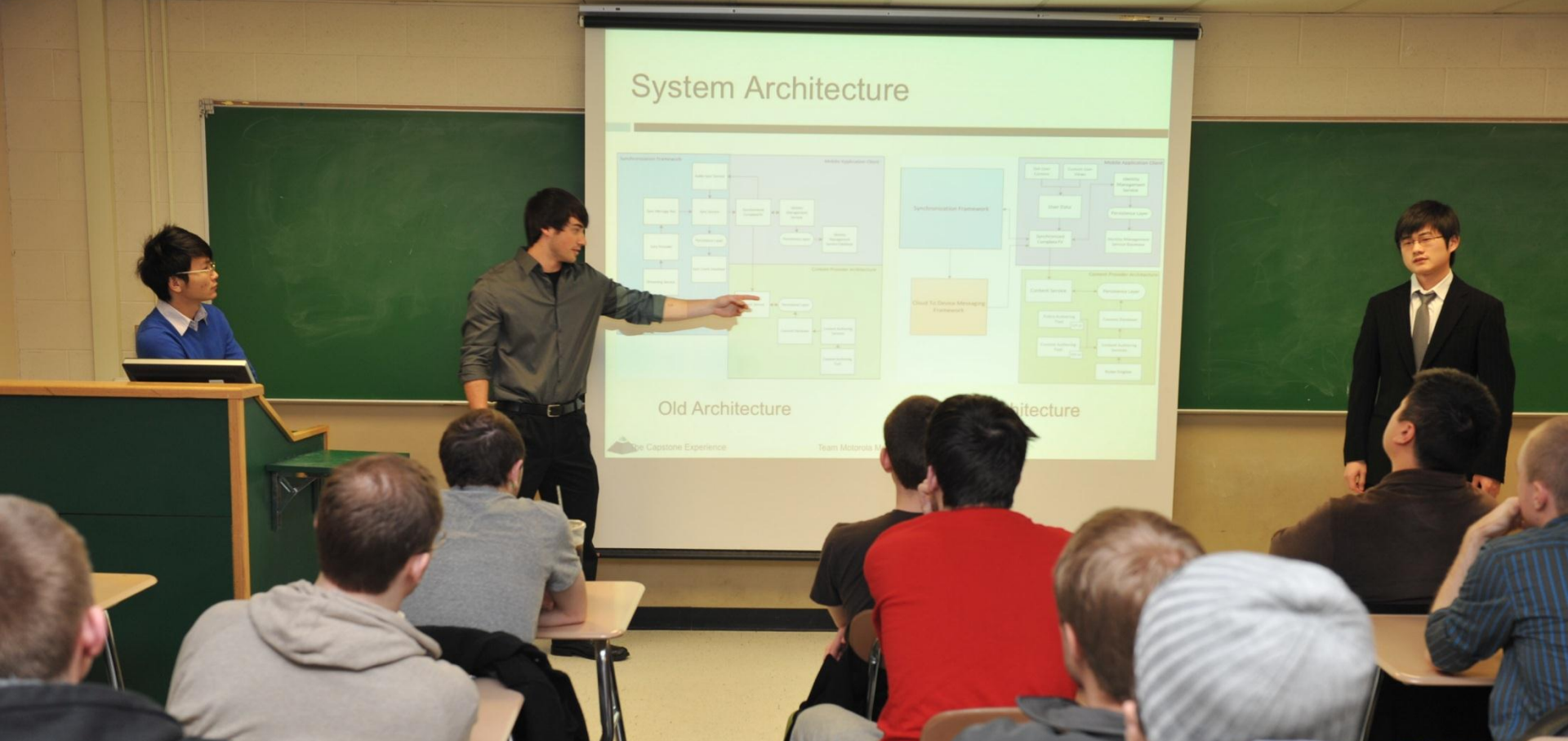
Team Motorola Mobility Project Plan

Team Motorola Mobility
Project Plan Presentation

Team Motorola Mobility Project Plan Presentation

Architecture Diagram

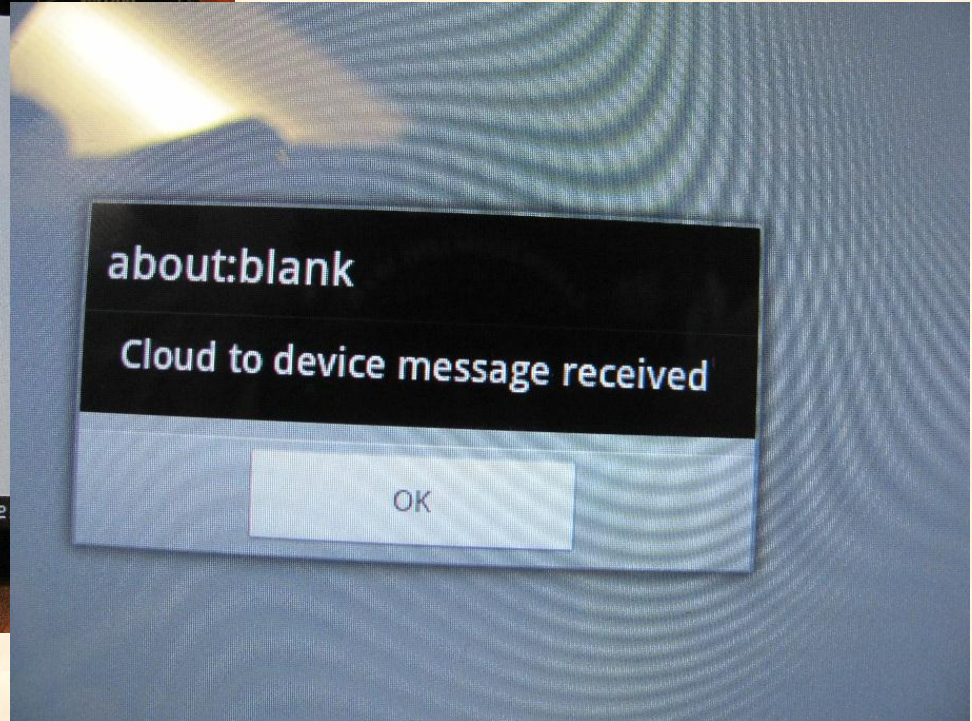
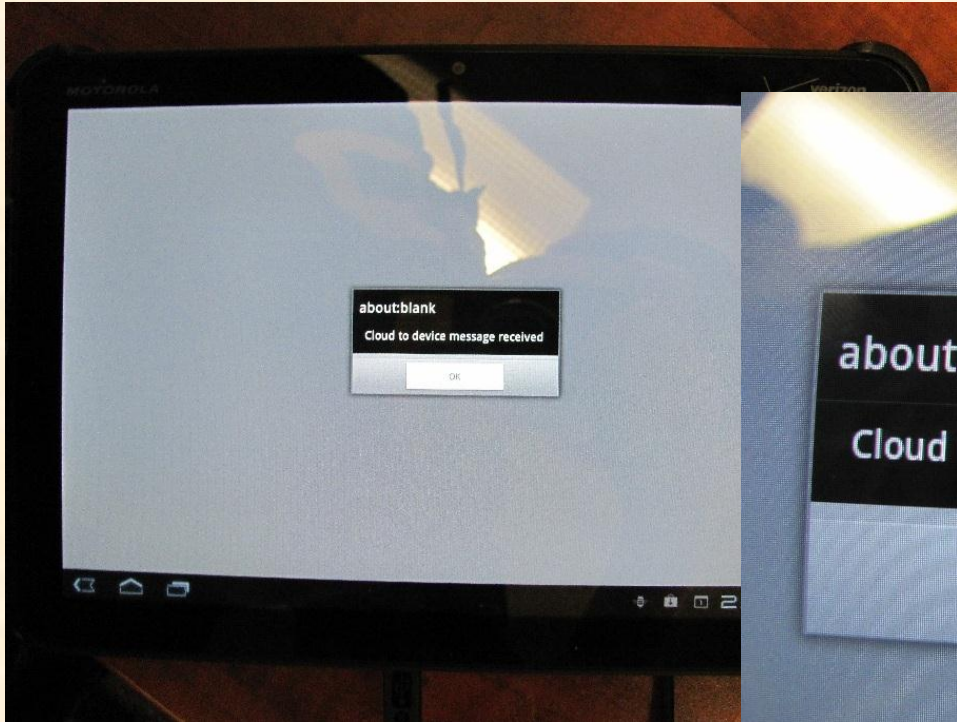




Team Motorola Mobility Alpha Presentation

Team Motorola Mobility Alpha Presentation

Cloud to Device Messaging





What's left to do?

- Cloud 2 Device Messaging
 - Testing
 - Finishing touches
- Content Authoring Tool v2
 - Testing
 - Finishing touches
- Rules Engine
 - Not yet begun
 - Research DROOLS
 - Business Rules Management System
 - Implementation

Capstone Experience

Team Motorola Mobility

Team Motorola Mobility
Alpha Presentation

Team Motorola Mobility Alpha Presentation

Content Authoring Tool V2

The screenshot displays the Motorola Mobility Content Authoring Tool V2 interface in a web browser. The browser's address bar shows the URL `localhost:8080/content-authoring-tool`. The application header includes the Motorola Mobility logo, the title "Content Authoring Tool", a "Logout" link, and the text "Currently Logged in as:". Below the header is a navigation bar with tabs for "Home", "Secondary Content Management", "Feed Management", and "Association Management".

The main content area is divided into three sections:

- Feeds:** This section on the left contains a "Create" button, "Edit" and "Delete" buttons, and a search icon. Below these is a list of feeds, with "Mythbusters: Big Blasts Collection DVD" selected and highlighted in blue.
- Content associated with Mythbusters: Big Blasts Collection DVD:** This middle section displays a list of content items associated with the selected feed:
 - MythBusters Book - Don't try this at home
 - Mythbusters - Walking on Water
 - MythBusters - Crash and Burn
- Search for Secondary Content:** This section on the right features a search bar and a list of secondary content items. The items include:
 - Drop Box
 - Mythbusters: Big Blasts Collection DVD
 - Jamie Hyneman Wikipedia Article
 - Adam Savage Wikipedia Article
 - Grant Imahara's Twitter Feed
 - Mythbusters - Walking on Water
 - Mythbusters' Official Twitter Feed
 - Red Wings vs Colorado Fight
 - Adam Savage's Twitter Feed
 - Test 3
 - Angry Birds
 - Jamie Hyneman Wikipedia Article
 - Kari Byron's Twitter
 - MythBusters - Crash and Burn
 - MythBusters Book - Don't try this at home
 - Science Channel Home Page
 - MythBusters Schedule on Science Channel
 - Monster Bug Wars Video: Assassin Bug
 - Science Channel's Wonders of the Solar System Videos
 - Science Channel's How It's Made Main Page



Team Motorola Mobility Beta Presentation

Team Motorola Mobility Beta Presentation

CompleteTV App



Team Motorola Mobility Beta Presentation

Updated Feed Management

The screenshot displays the Motorola Mobility Content Authoring Tool interface. At the top, the Motorola Mobility logo is on the left, the title "Content Authoring Tool" is in the center, and a "Logout" link and "Currently Logged in as:" status are on the right. Below the title bar is a navigation menu with tabs: "Home", "Secondary Content Management", "Feed Management" (which is active), and "Association Management".

The main interface is divided into two primary sections. On the left, under the "Feed Management" tab, there is a "Search for Feed Content" search bar and three buttons: "Create", "Edit", and "Delete". Below these is a list of feeds. The feed "The Simpsons - Homer The Father Feed" is currently selected and highlighted in blue.

On the right, under the "Feed Management" tab, there is a "Search for Secondary Content" search bar. Below this is a list of associated secondary content items, each with a small icon and a red "X" button for removal. The items listed are:

- IMDB - James Lipton
- IMDB - The Simpsons - Homer The Father
- Homer Simpson Facebook Page
- Amazon - Simpsons - Season 22
- Hulu - Homer the Father Clip

At the bottom right, there is a list of secondary content items, each with a small icon and a red "X" button for removal. The items listed are:

- The Simpsons: Complete First Season
- Hulu - Simpsons Curling Clip
- Amazon - Sure Shot Curling Stick
- Space Jam Trailer
- IMDB - James Lipton
- Everybody Loves Raymond - Funny Moments
- The Simpsons - Movie Trailer
- Everybody Loves Raymond - Shower Clip
- Everybody Loves Raymond - Last Laugh Clip
- Home Improvement - Sisters and Brothers Clip
- Amazon - Everybody Loves Raymond - Complete Series
- Everybody Loves Raymond: Complete 9th Season
- Amazon - Home Improvement - Complete Second Season
- Patricia Heaton Wikipedia Article
- Ray Romano Wikipedia Article




Team Motorola Mobility Beta Presentation

Team Motorola Mobility

Beta Presentation

Updated Association Management

 **MOTOROLA MOBILITY**

Content Authoring Tool

Logout

Currently Logged in as:

HomeSecondary Content ManagementFeed ManagementAssociation Management

Currently Selected Primary Content

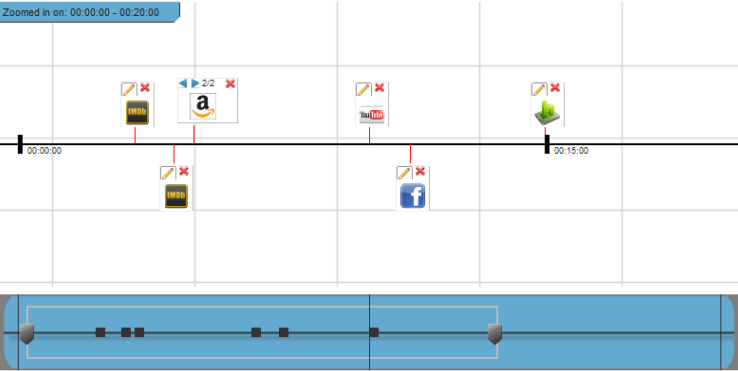
The Last Laugh

Interviews with the cast and producers, highlights from past seasons, and the last week of production.

Change Primary Content

Timeline View

Zoomed in on: 00:00:00 - 00:20:00



FeedsSecondary Content

Search for Feed Content

Everybody Loves Raymond - General Feed

The Simpsons - General Feed

Home Improvement - General Feed

Looney Toons - General Feed

Everybody Loves Raymond - The Shower Feed

Everybody Loves Raymond - The Last Laugh Feed

Home Improvement - Haunting of Taylor House Feed

Home Improvement - Sisters and Brothers Feed

The Simpsons - Homer The Father Feed

The Simpsons - Boy Meets Curl Feed



Motorola Mobility Context-Driven Content Delivery

As the mobile device market continues to grow, consumers are using smart phones and tablets more and more in everyday situations.

Compared to the rapid innovations of most technology, the television viewing experience has hardly changed.

The Context-Driven Content Delivery system provides an interactive television experience. As the viewer is watching a television show, the CompleteTV Android application can display other forms of content relevant to what is currently playing on the television.

Content providers have the ability to market their products to targeted audiences by utilizing the system. For example, a content provider could set an advertisement for Walmart as soon as a character on television walks into a Walmart store.

The viewers can synchronize their mobile devices through their cable box at home or, if they are out of range of their cable box, through recording an audio sample from the program that is being viewed. The user also has the option to manually select the program from the Android application.

The Context-Driven Content Delivery system is created using Java along with the RESTful web framework. Our mobile applications are written in Java for optimal user experience. These applications run on a Glassfish server and are optimized for the Android tablet device.



Michigan State University Team Members (left to right)

Yudong Yi
Shenzhen, Guangdong, China
Cory Harter
Holland, Michigan
Linwei Zhu
Hefei, China

Motorola Mobility Project Sponsors

Kunal Shah
Libertyville, Illinois
Kabe Vanderflaen
Libertyville, Illinois



Team Motorola Mobility Design Day

MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Team Mozilla

Department of Computer Science and Engineering
Michigan State University
Spring 2012

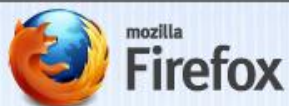


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...to Professionals*



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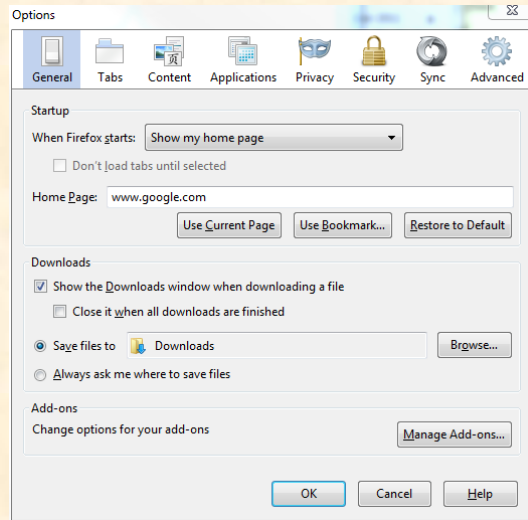
*Share
FIREFOX*

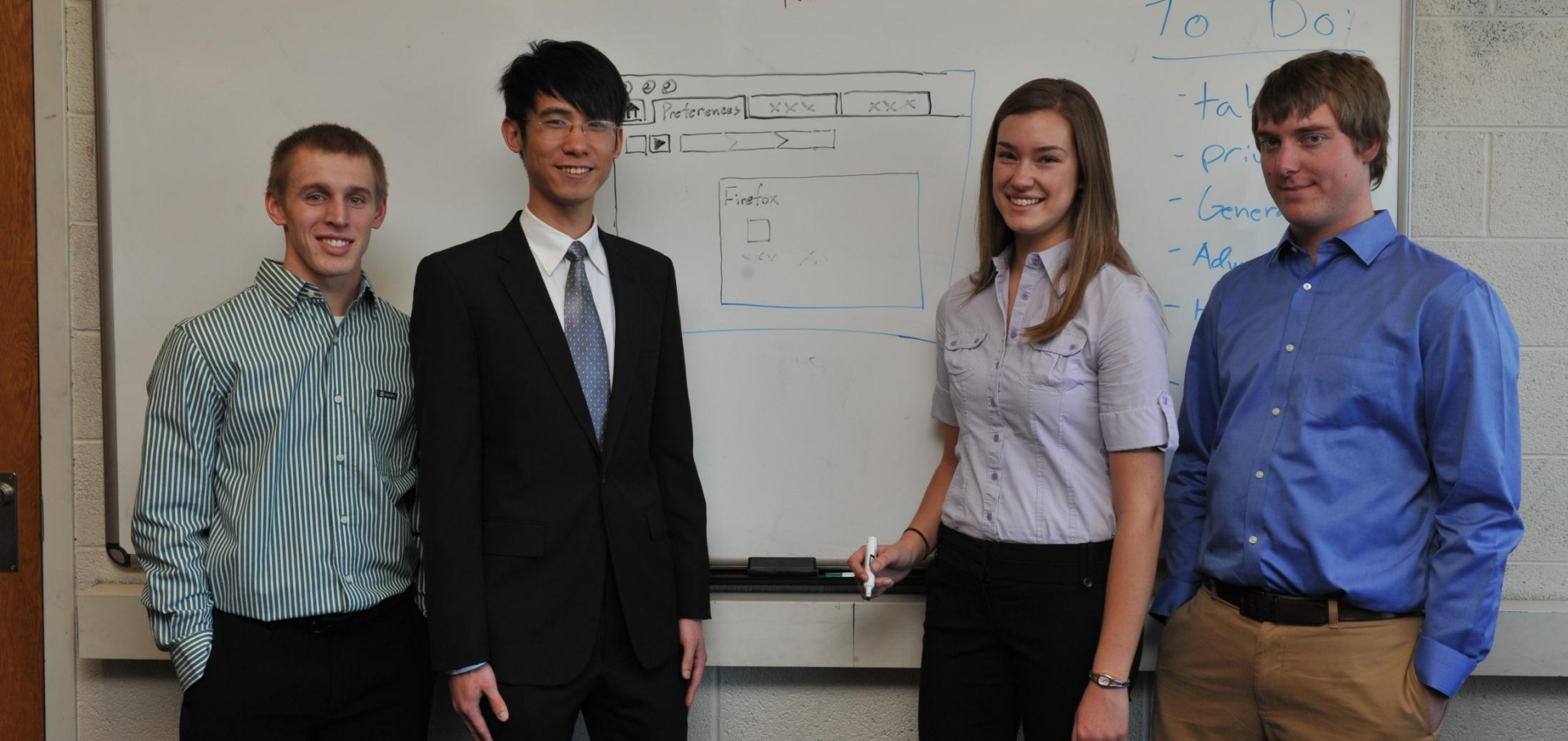
*More Features. More Info.
MORE FIREFOX*

Team Mozilla Project Overview

In-Content Preferences for Firefox

- Functionalities
 - Set Firefox Preferences
 - Within Firefox Tab
 - Eliminate Popup Window
 - Use Content Area
- Features
 - Seamless User Experience Across Devices
 - Improve User Interface
 - Integration of all Customizations into Preferences
 - Add-On Manager
 - Toolbar Layout
- Technologies
 - CSS, HTML
 - XML User Interface Language (XUL)
 - JavaScript (Including New Language Features)
 - Mercurial
 - Bugzilla





Team Mozilla

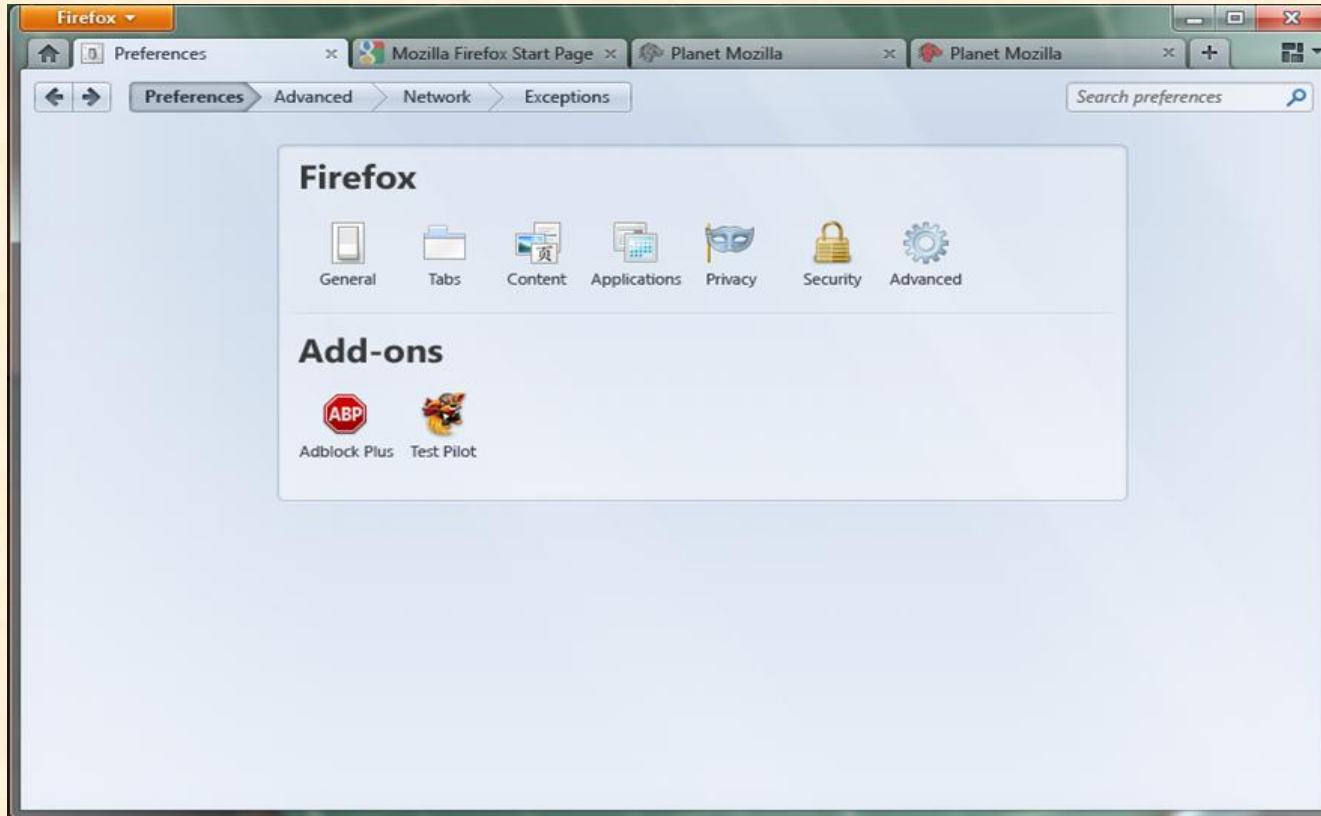
Jon Rietveld, Joe Chen, Devan Sayles, Owen Carpenter



Team Mozilla Project Plan Presentation

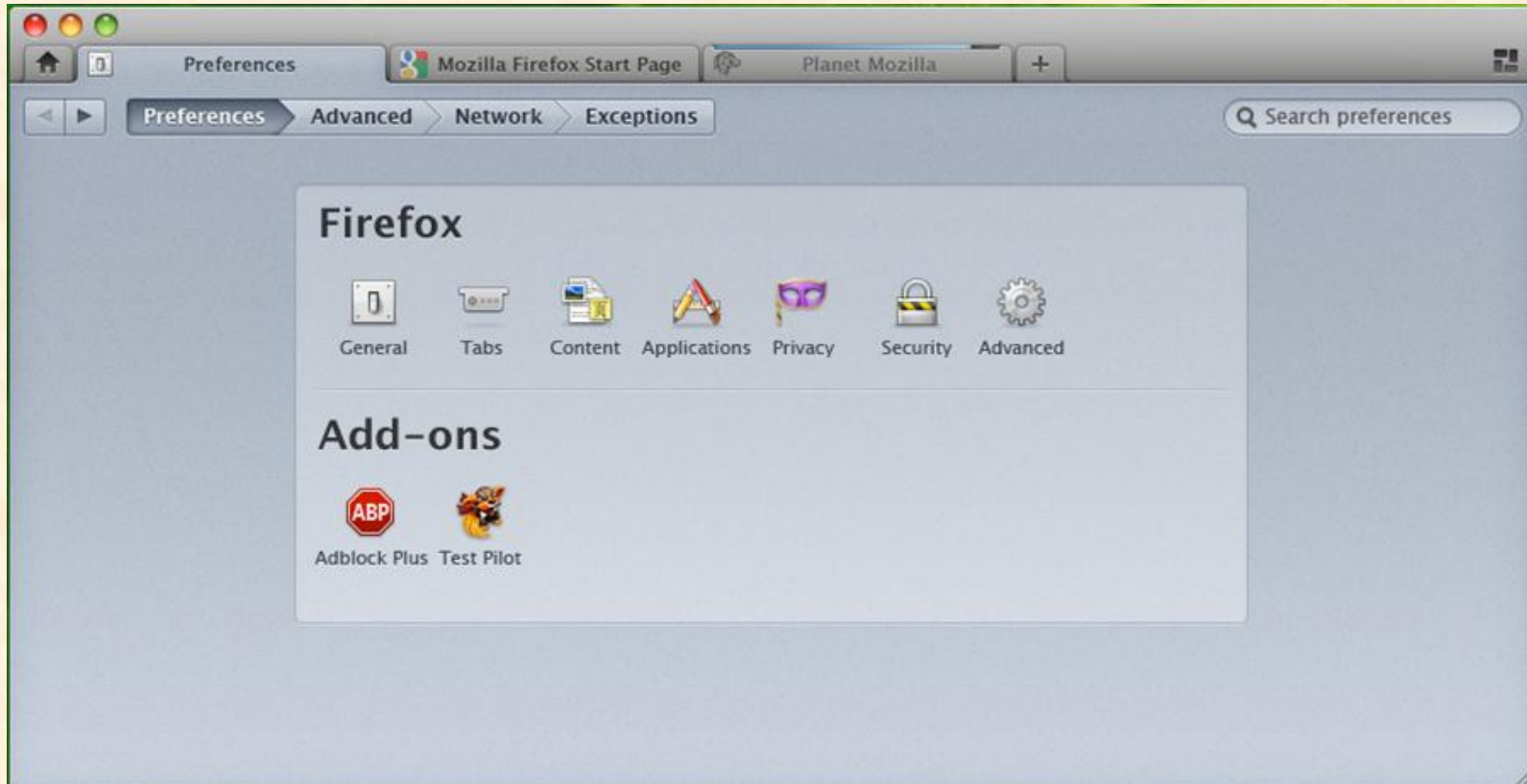
Team Mozilla Project Plan Presentation

Screen Mockup

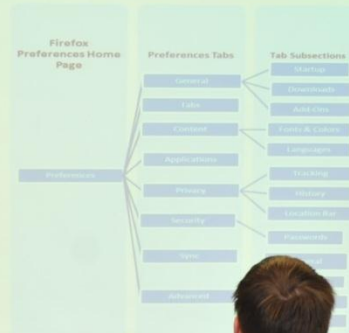


Team Mozilla Project Plan Presentation

Screen Mockup



Preferences Page Architecture



The Gecko Engine

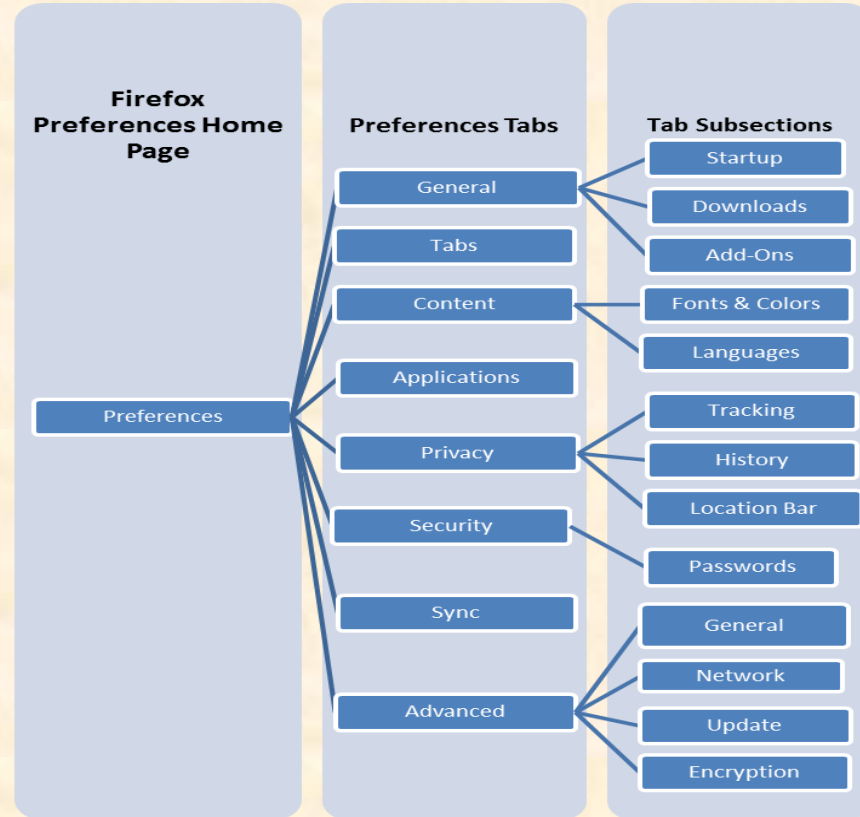
Team Mozilla Project

23

Team Mozilla
Project Plan Presentation

Team Mozilla Project Plan Presentation

Architecture Diagram

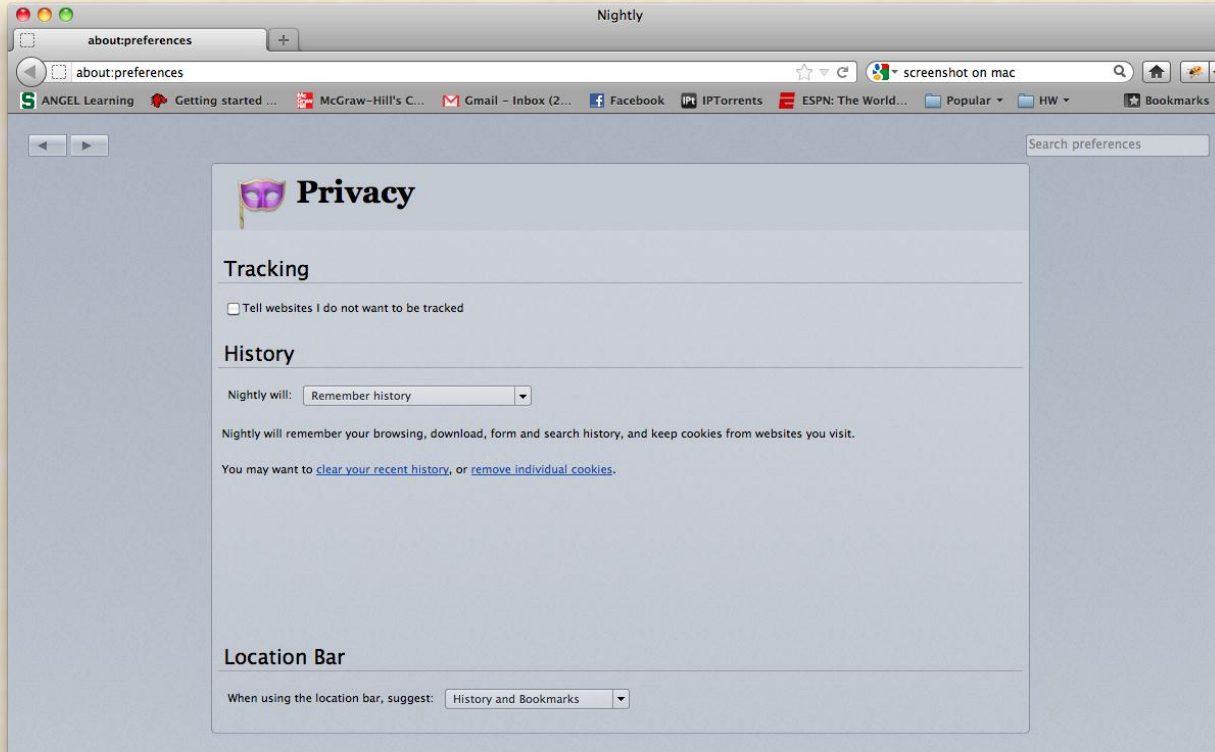




Team Mozilla Alpha Presentation

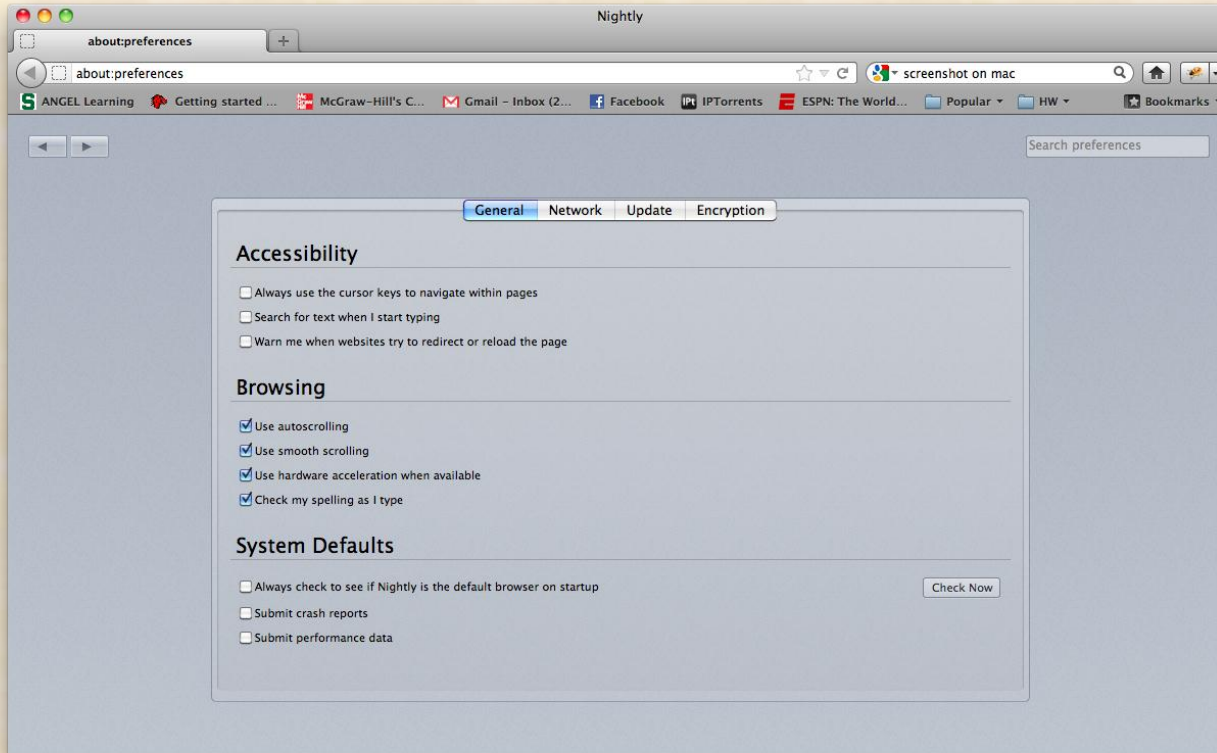
Team Mozilla Alpha Presentation

Privacy Pane



Team Mozilla Alpha Presentation

Advanced Pane

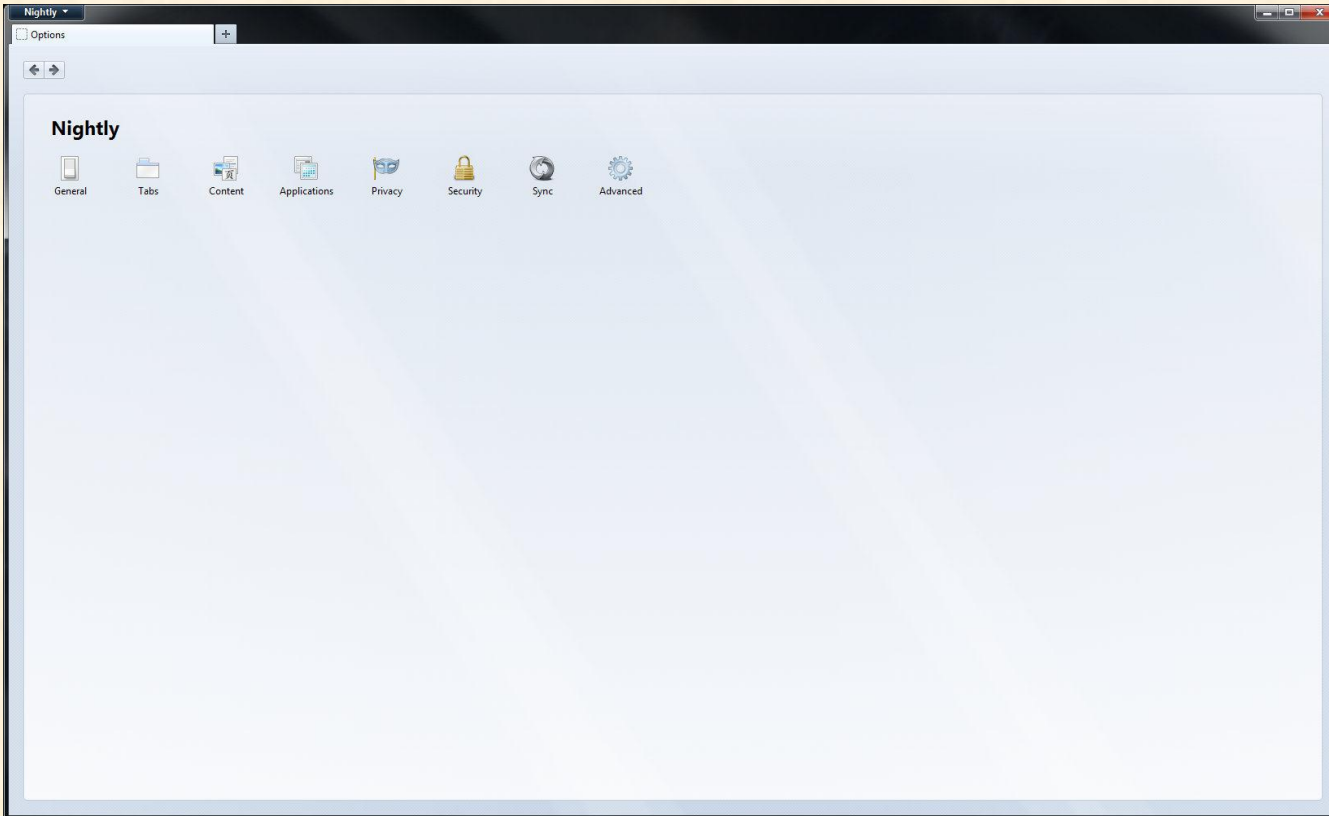


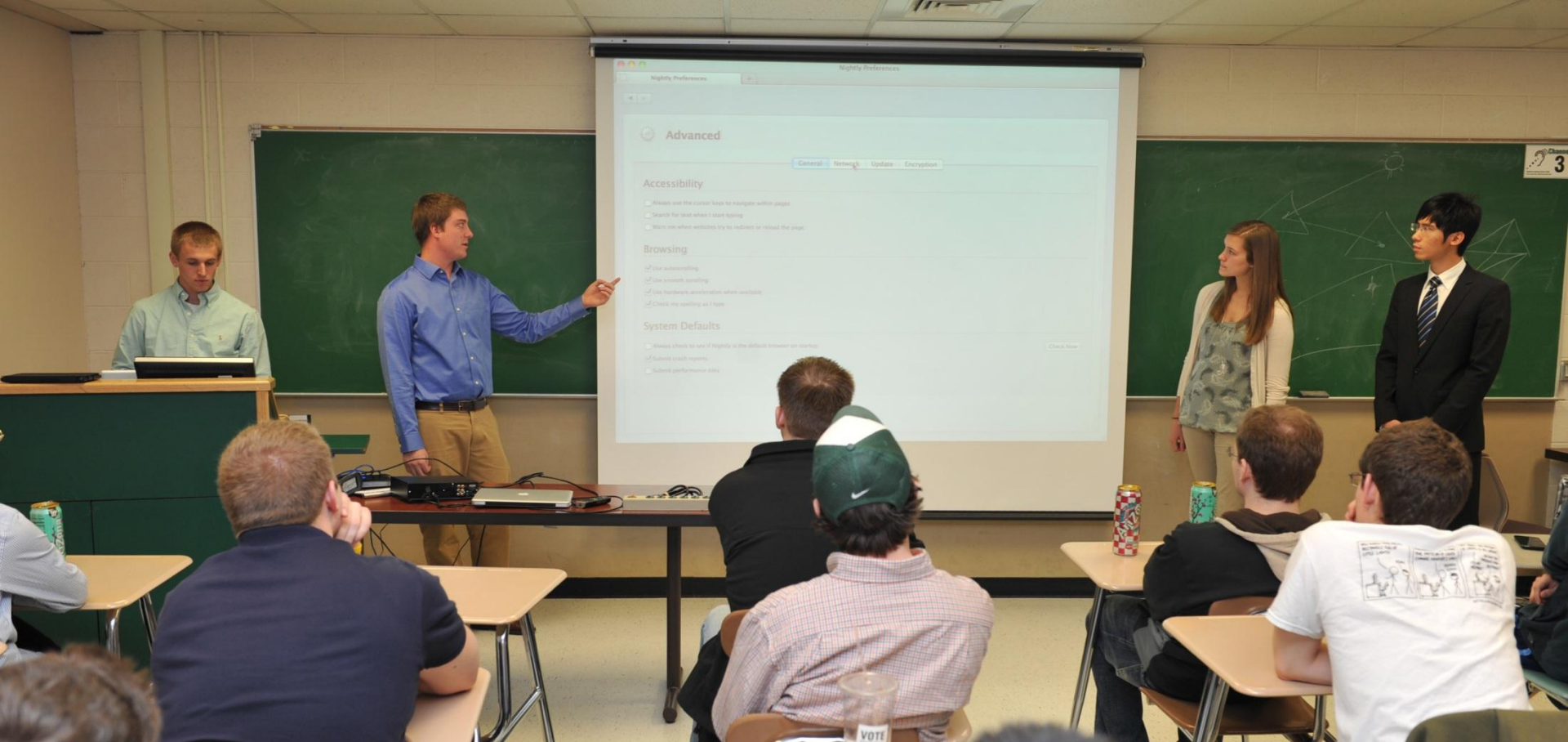


Team Mozilla Alpha Presentation

Team Mozilla Beta Presentation

Landing Page

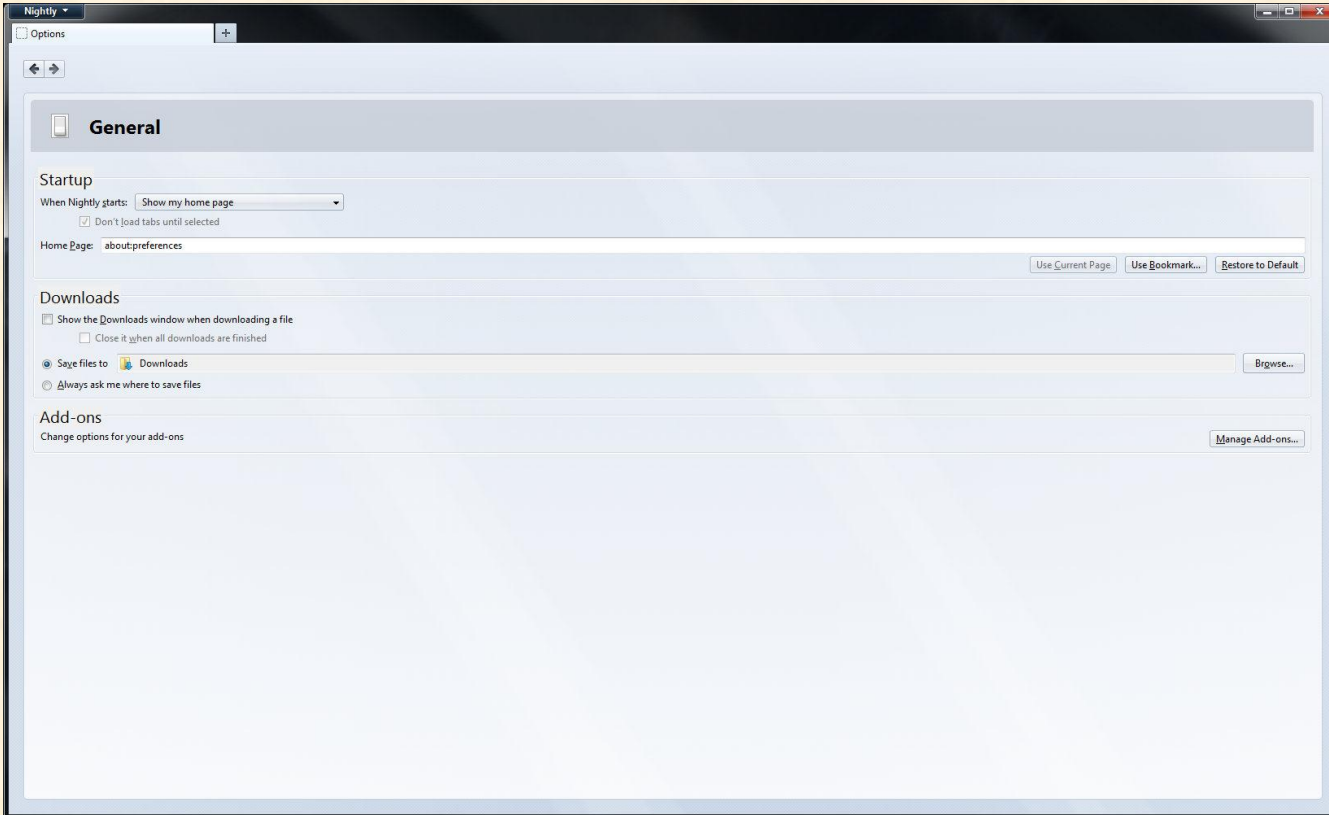




Team Mozilla Beta Presentation

Team Mozilla Beta Presentation

General Pane

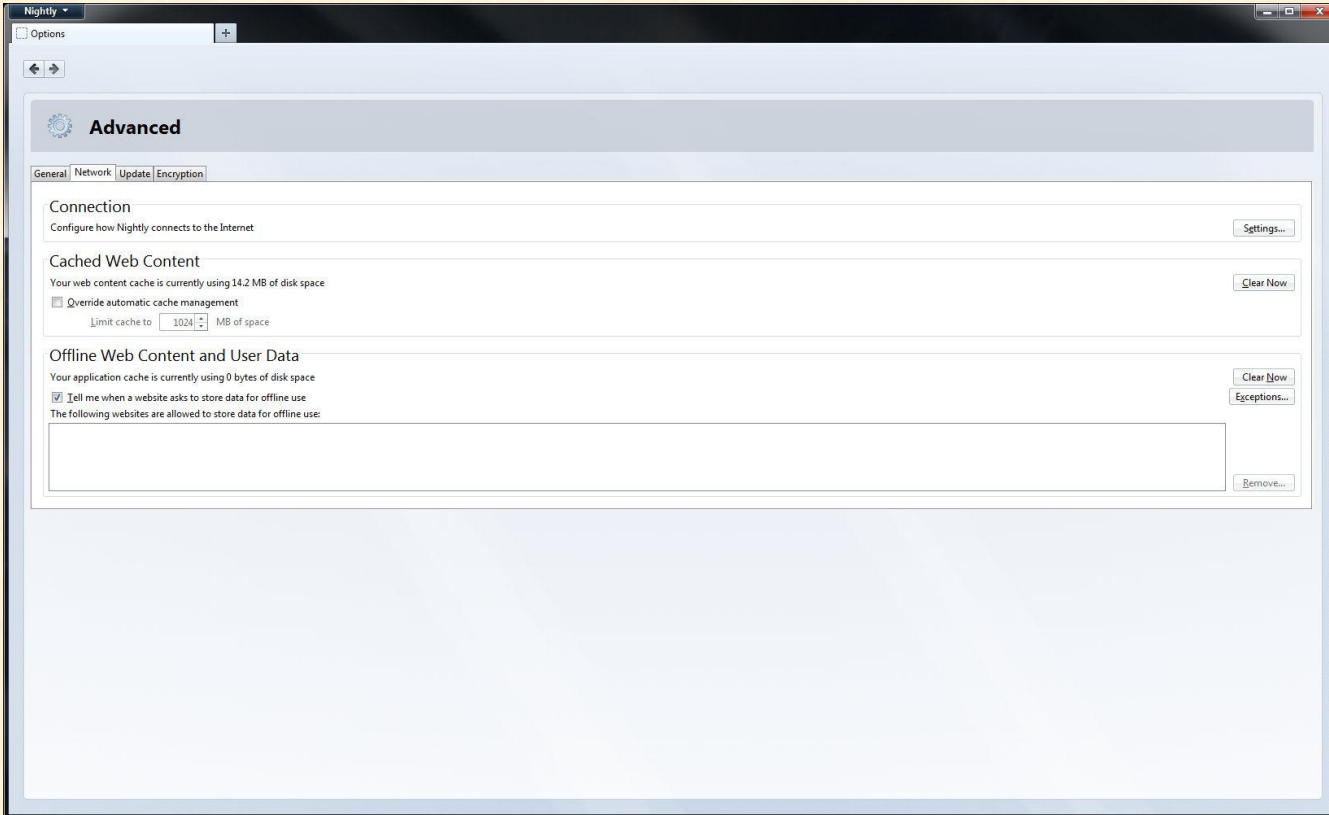




Team Mozilla Beta Presentation

Team Mozilla Beta Presentation

Advanced Pane





Team Mozilla
Design Day

MICHIGAN STATE
UNIVERSITY

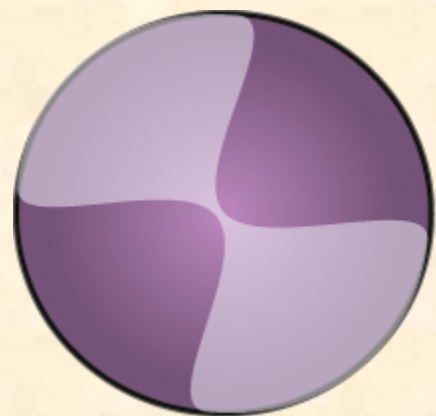
The Capstone Experience

Team Plex Systems

Department of Computer Science and Engineering
Michigan State University
Spring 2012



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Electronics

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Plex Online SaaS or Cloud ERP

Plex Online Software as a Service (SaaS) ERP has a global reach. The Cloud ERP

Manufacturing ERP Software

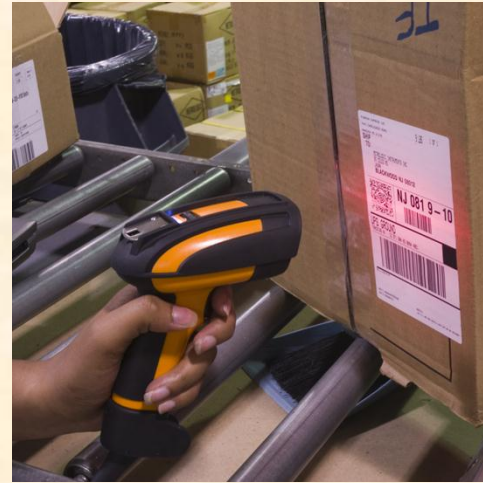
Plex Online manufacturing ERP software provides unparalleled coverage and access

Automotive Demo:
Jan. 12

Team Plex Systems Project Overview

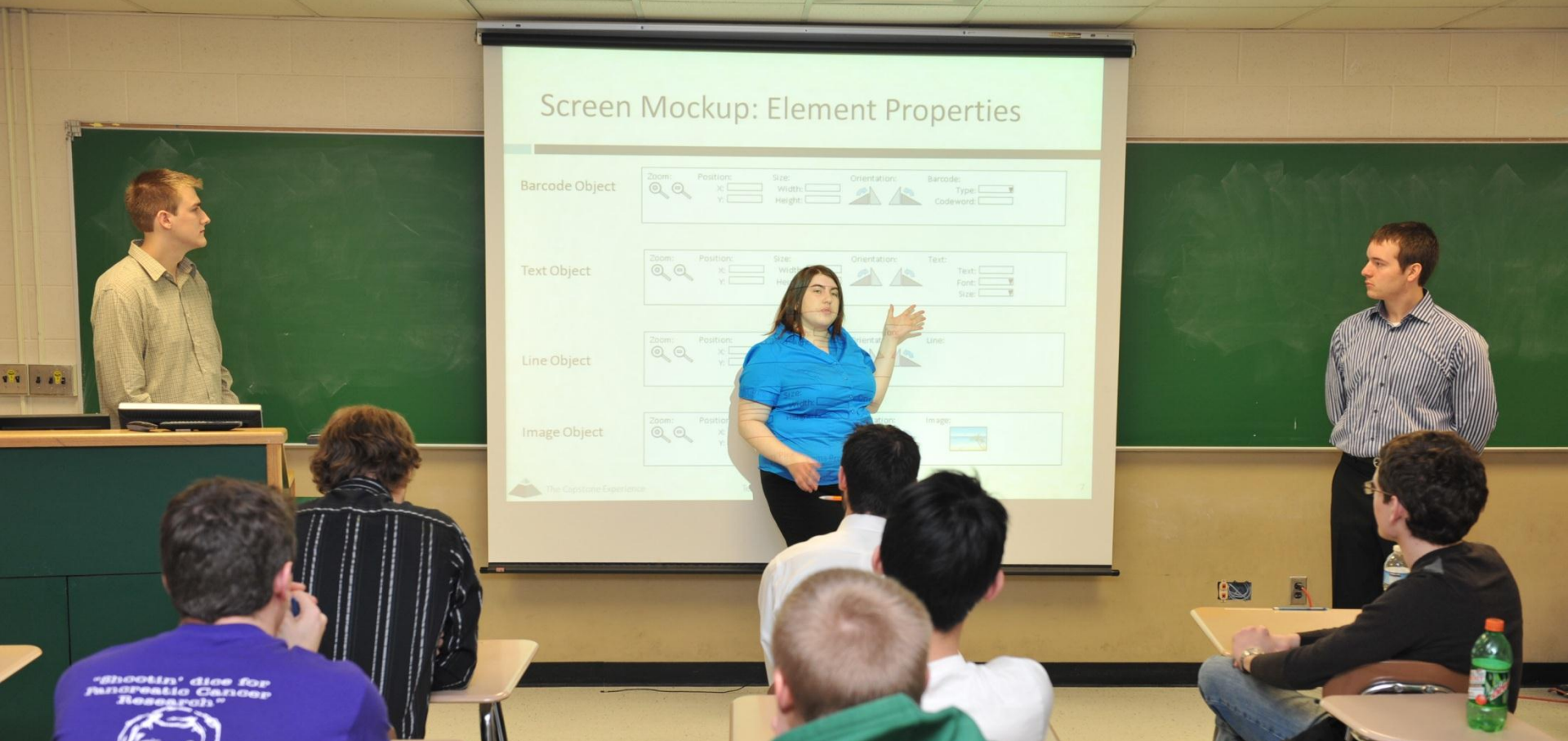
HTML5-Based WYSIWYG Label Designer

- Functionalities
 - Design Labels
 - For Manufacturing Companies
 - To Label Products For End-Customers
- Features
 - What You See Is What You Get (WYSIWYG)
 - Web and Cloud-Based
 - Support
 - Text Labels and Data
 - Barcoded Data
 - 3 of 9
 - 2D
 - Code-128
 - Lines and Images
- Technologies
 - CSS, HTML5 JavaScript, AJAX
 - JQuery
 - Microsoft SQL Server 2008
 - Microsoft C#/.NET, ASP.NET





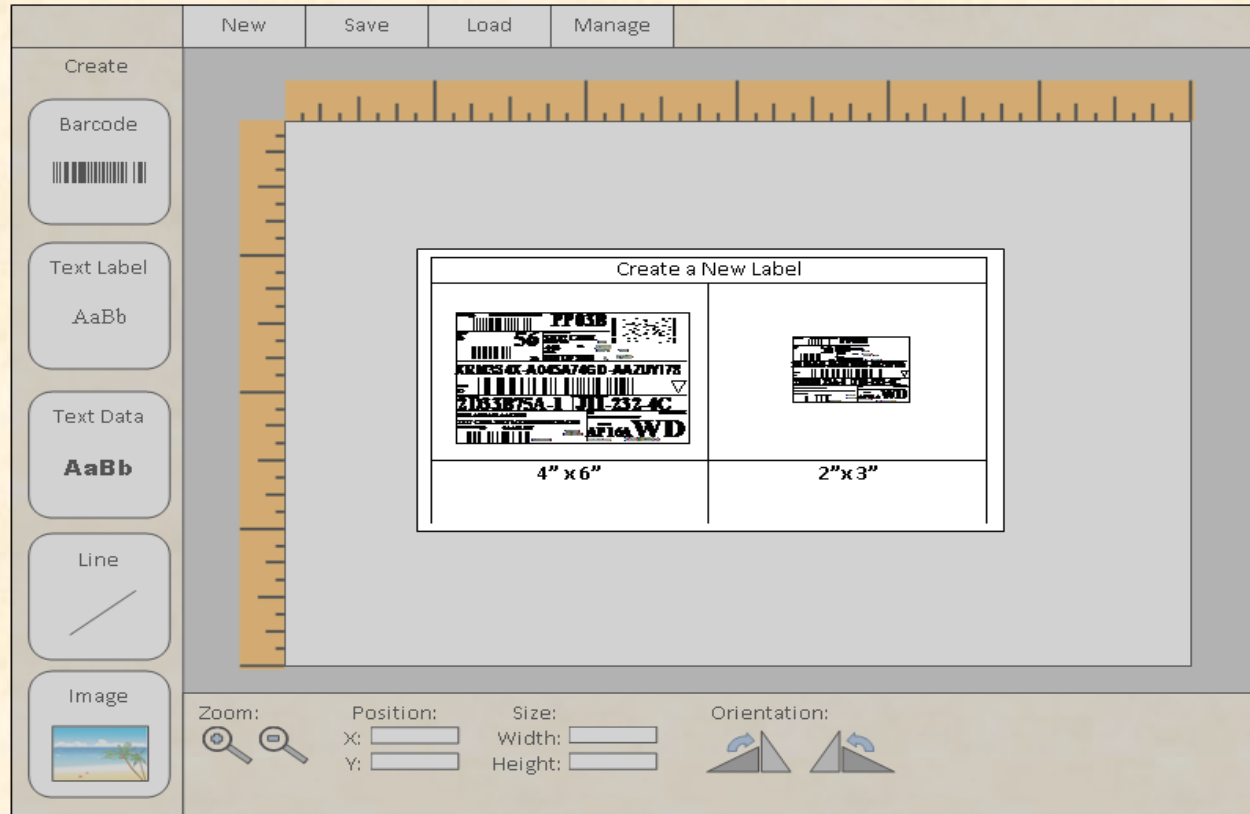
Team Plex Systems
Matt Duffy, Michele Winsky, Andrew Melfi



Team Plex Systems Project Plan Presentation



Team Plex Systems Project Plan Presentation



Screen Mockup








Team Plex Systems Project Plan Presentation

Screen Mockup

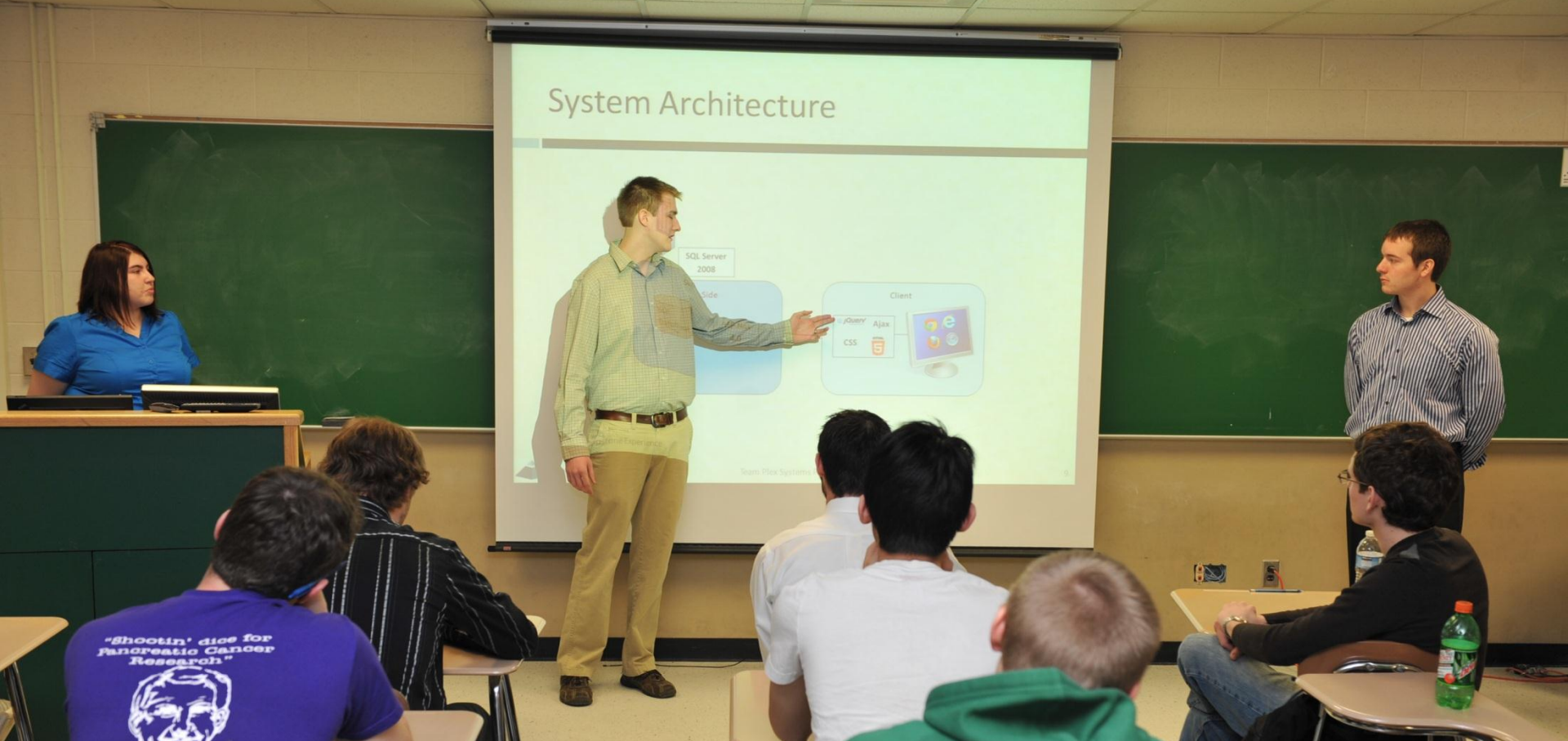
| | | | | |
|---|--|---|--|--|
| Zoom: | Position: | Size: | Orientation: | Barcode: |
|  | X: <input type="text"/> Y: <input type="text"/> | Width: <input type="text"/> Height: <input type="text"/> |  | Type: <input type="text"/> Codeword: <input type="text"/> |

| | | | | |
|---|--|---|--|--|
| Zoom: | Position: | Size: | Orientation: | Text: |
|  | X: <input type="text"/> Y: <input type="text"/> | Width: <input type="text"/> Height: <input type="text"/> |  | Text: <input type="text"/> Font: <input type="text"/> Size: <input type="text"/> |

| | | | | |
|---|--|---|--|-------|
| Zoom: | Position: | Size: | Orientation: | Line: |
|  | X: <input type="text"/> Y: <input type="text"/> | Width: <input type="text"/> Height: <input type="text"/> |  | |

| | | | | |
|---|--|---|--|---|
| Zoom: | Position: | Size: | Orientation: | Image: |
|  | X: <input type="text"/> Y: <input type="text"/> | Width: <input type="text"/> Height: <input type="text"/> |  |  |

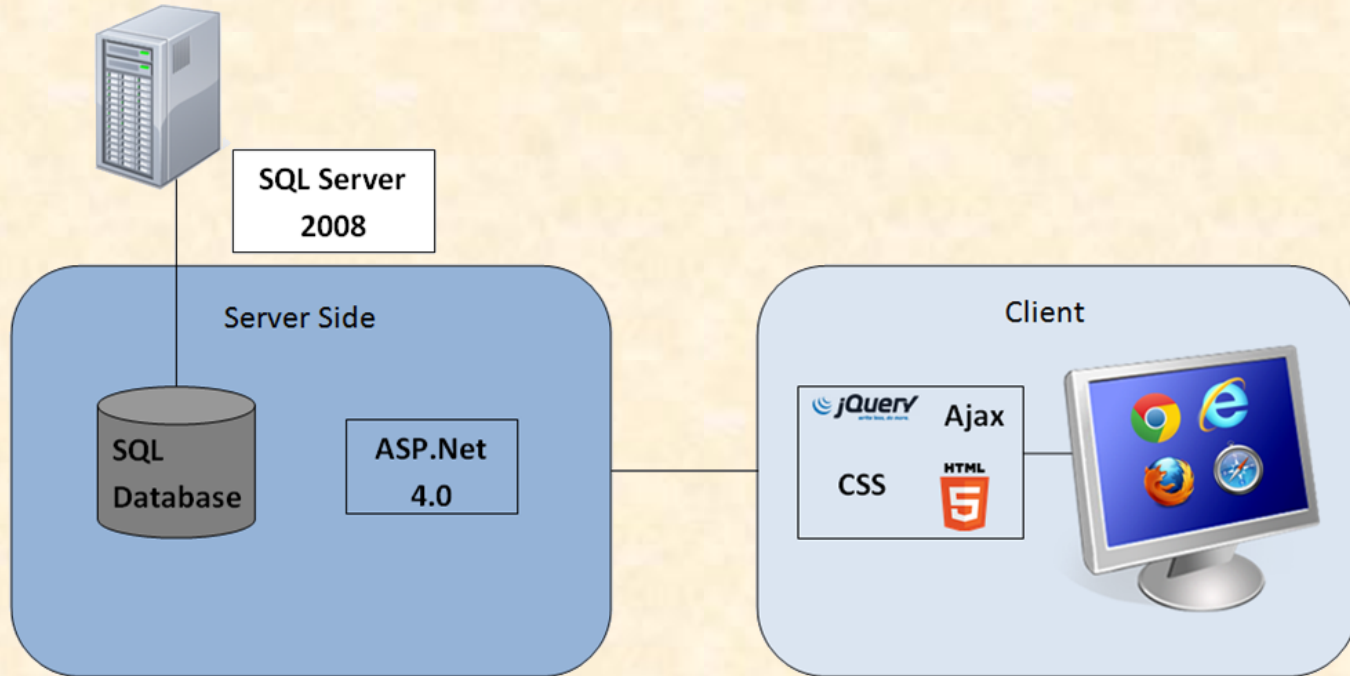


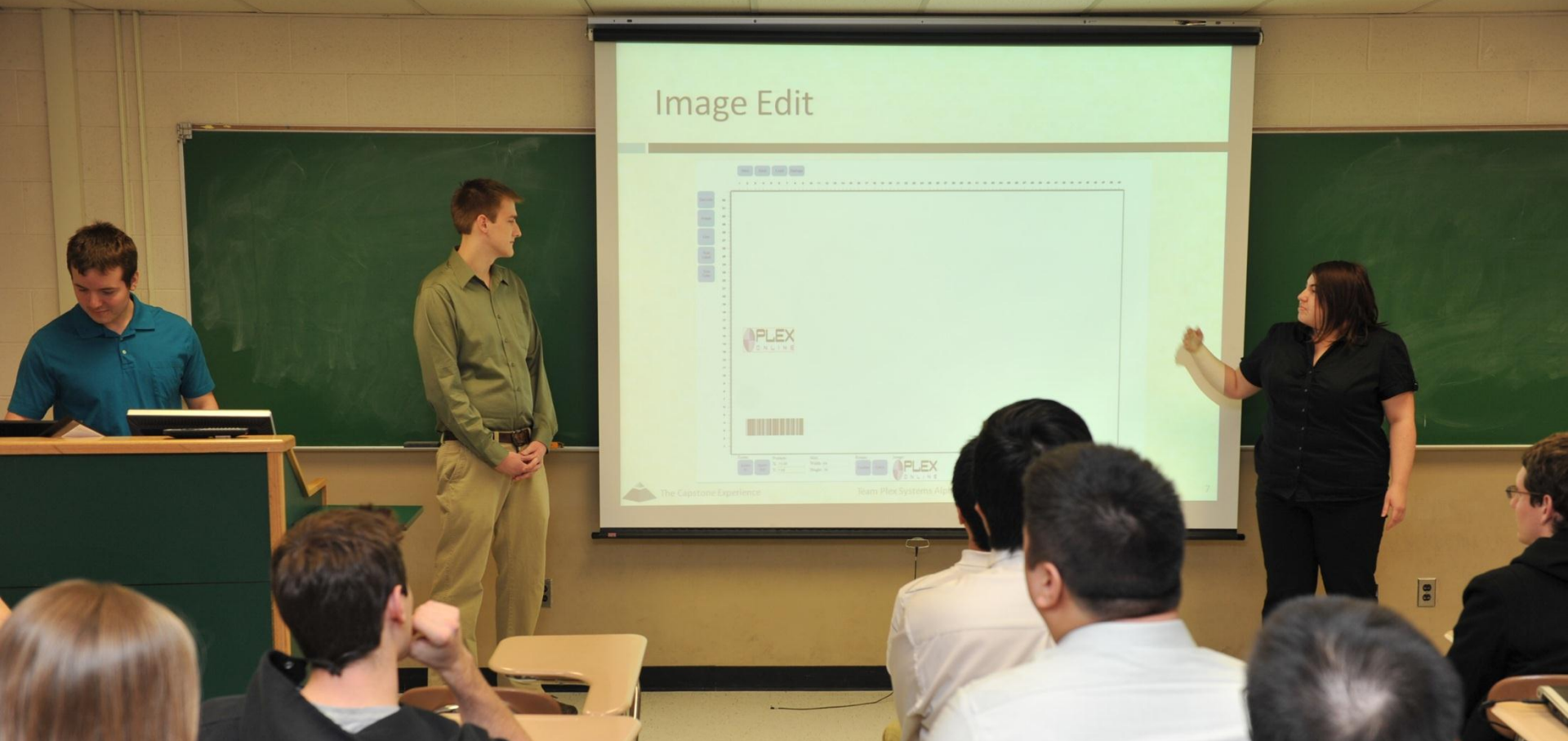


Team Plex Systems Project Plan Presentation

Team Plex Systems Project Plan Presentation

Architecture Diagram



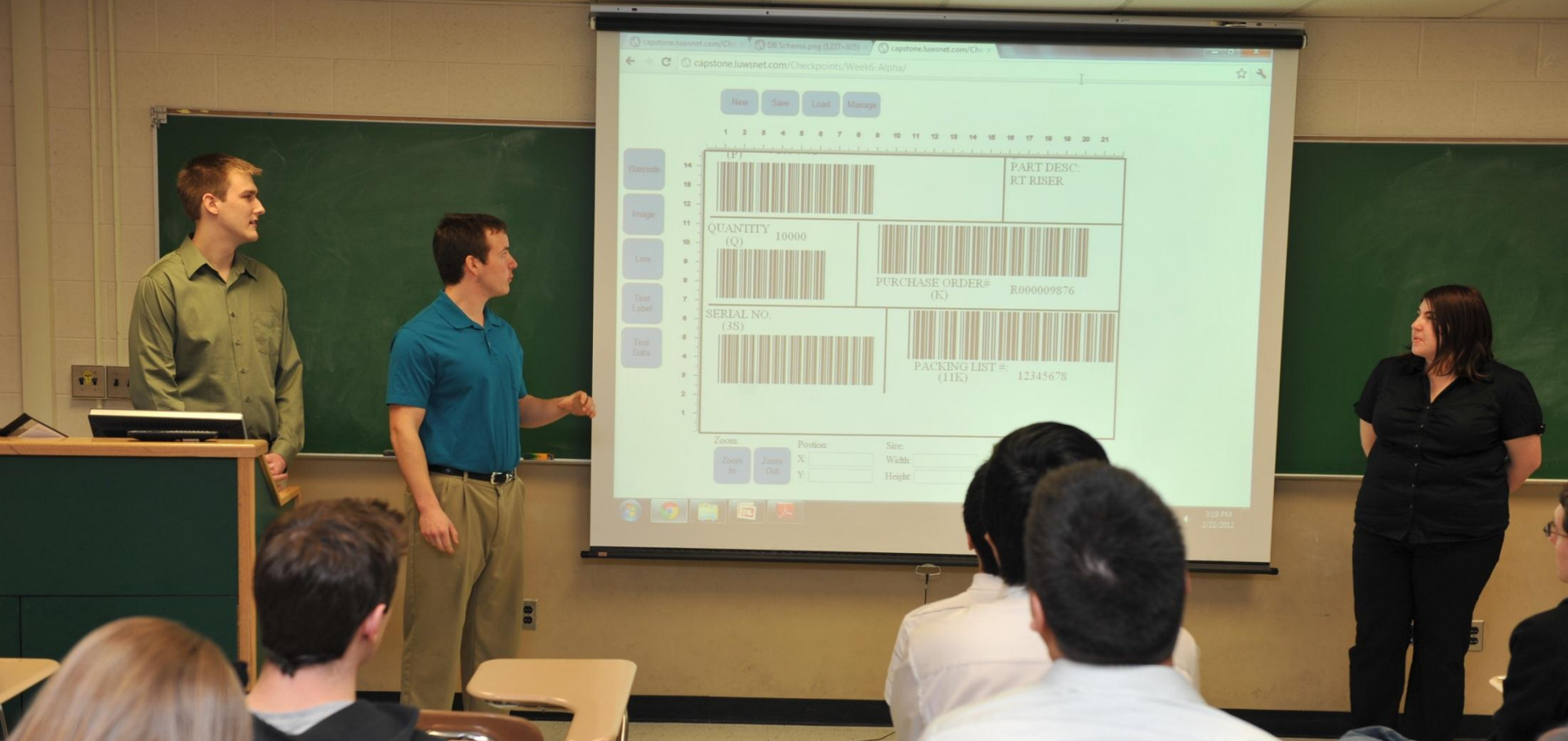


Team Plex Systems Alpha Presentation

Team Plex Systems Alpha Presentation

Text Data Edit





Team Plex Systems Alpha Presentation

Team Plex Systems Alpha Presentation

Final Label Layout

New Save Load Manage

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

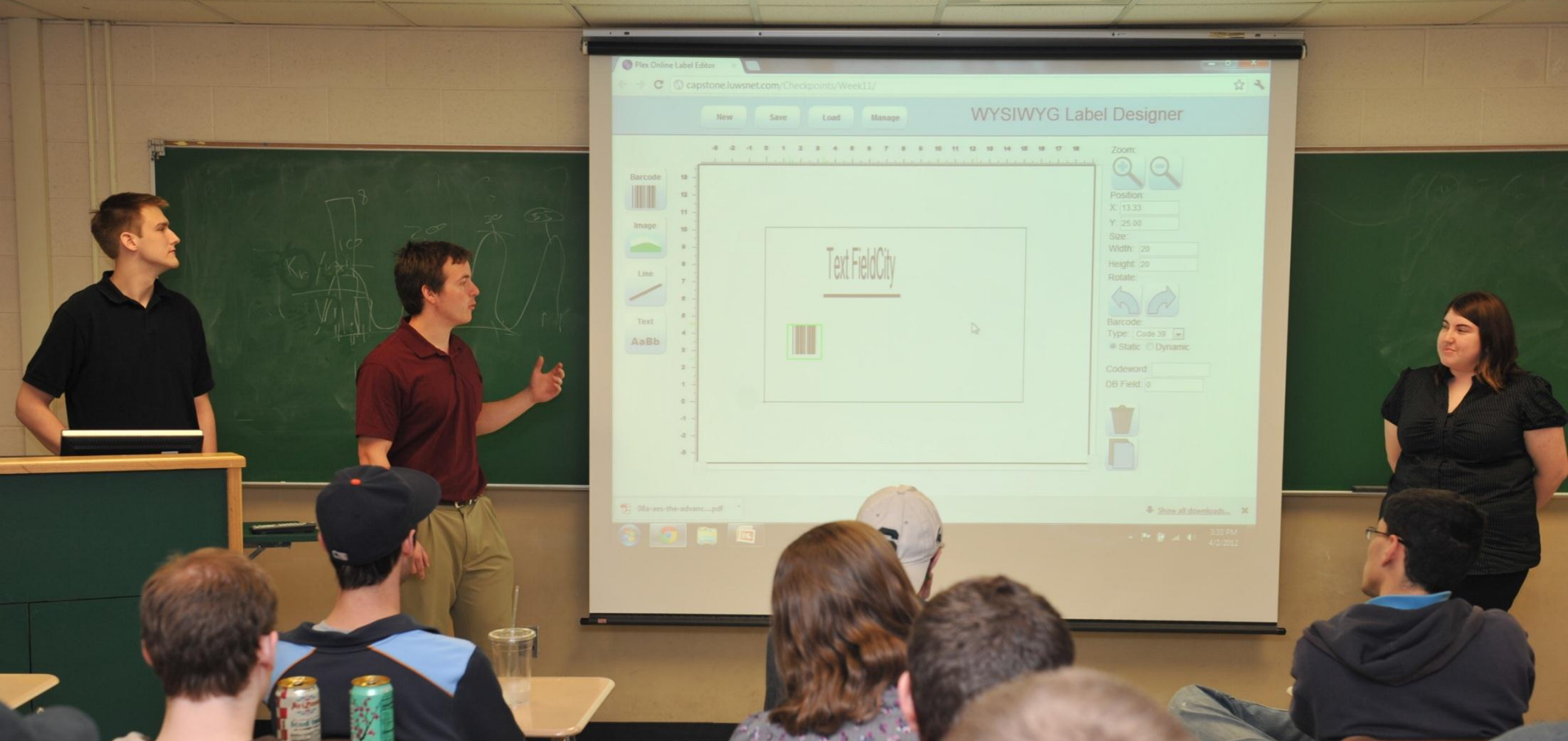
Barcode
Image
Line
Text Label
Text Data

| | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| FROM: ABC COMPANY 123 NUMBER LANE ALPHABET, YZ 90785-4321 SUPPLIER# A0000 | | | | | | | | | | TO: HARLEY DAVIDSON 1425 EDEN ROAD YORK, PA 17402 | | | | | | | | | |
| PART NO. (P) 91654-01 | | | | | | | | | | DOCK: A3 DEL LOC: XL122222222 | | | | | | | | | |
| | | | | | | | | | | REV. LEVEL C PART DESC: RT RISER | | | | | | | | | |
| QUANTITY (Q) 10000 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | PURCHASE ORDER# (K) R000009876 | | | | | | | | | |
| SERIAL NO. (3S) 99999999 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | PACKING LIST#: (11K) 12345678 | | | | | | | | | |

Zoom: Zoom In Zoom Out Position: X: Y: Size: Width: Height: Rotator: Counter Clock

characters long. Line can extend beyo

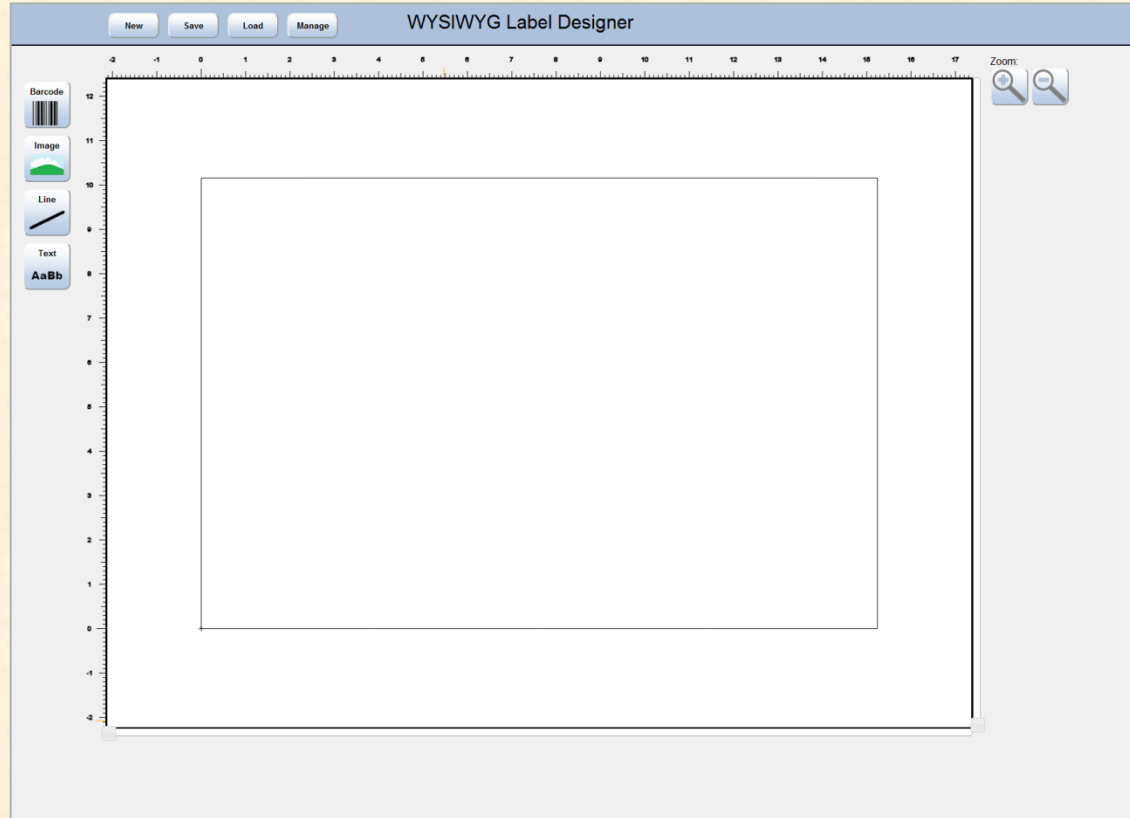
| | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| FROM: ABC COMPANY 123 NUMBER LANE ALPHABET, YZ 90785-4321 SUPPLIER# A0000 | | | | | | | | | | TO: HARLEY DAVIDSON 1425 EDEN ROAD YORK, PA 17402 | | | | | | | | | |
| PART NO. (P) 91654-01 | | | | | | | | | | DOCK: A3 DEL LOC: XL 122222222 | | | | | | | | | |
| | | | | | | | | | | REV. LEVEL C PART DESC: RT RISER | | | | | | | | | |
| QUANTITY (Q) 10000 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | PURCHASE ORDER# (K) R000009876 | | | | | | | | | |
| SERIAL NO. (3S) 99999999 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | PACKING LIST#: (11K) 12345678 | | | | | | | | | |



Team Plex Systems Beta Presentation

Team Plex Systems Beta Presentation

Main Application View



Team Plex Systems Beta Presentation

Placed Object

WYSIWYG Label Designer

New Save Load Manage

Barcode
Image
Line
Text
AaBb

Zoom:
Position:
X: 4.77
Y: 53.30
Size:
Width: 60
Height: 15
Rotate:
Barcode:
Type: Code 39
Static Dynamic
Codeword: 638292-01
DB Field:

From:
XYZ Company
123 Spartan Lane
East Lansing, MI 48823
Supplier # 6381BC

To:
Capstone
724 Red Cedar Rd.
East Lansing, MI 48824
Dock: B9 Del. Loc. DL 2939502

Part No.
(PN) 638292-01

Rev. No.
C01

Part Desc.
Mid Riser

Quantity
(Q) 10000

Barcode



Team Plex Systems Beta Presentation

Team Plex Systems Beta Presentation

Completed Label

WYSIWYG Label Designer

New Save Load Manage

Barcode
Image
Line
Text
AaBb

Zoom

| | | | |
|---|--|---|--|
| From: XYZ Company 123 Spartan Lane East Lansing, MI 48823 Supplier # 6381BC | | To: Capstone 724 Red Cedar Rd. East Lansing, MI 48824 Dock: B9 Del. Loc. DL 2939502 | |
| Part No. (PN) 638292-01 [Barcode] | | Rev. No. C01 Part Desc. Mid Riser | |
| Quantity (Q) 10000 [Barcode] | | Purchase Order (O) R087392023 [Barcode] | |
| Serial No. (3S) 99999999 [Barcode] | | Packing List # (39F) 12345678 [Barcode] | |



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Michigan State University
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Team Raytheon

Project Overview

Android Secure VoIP Communications System

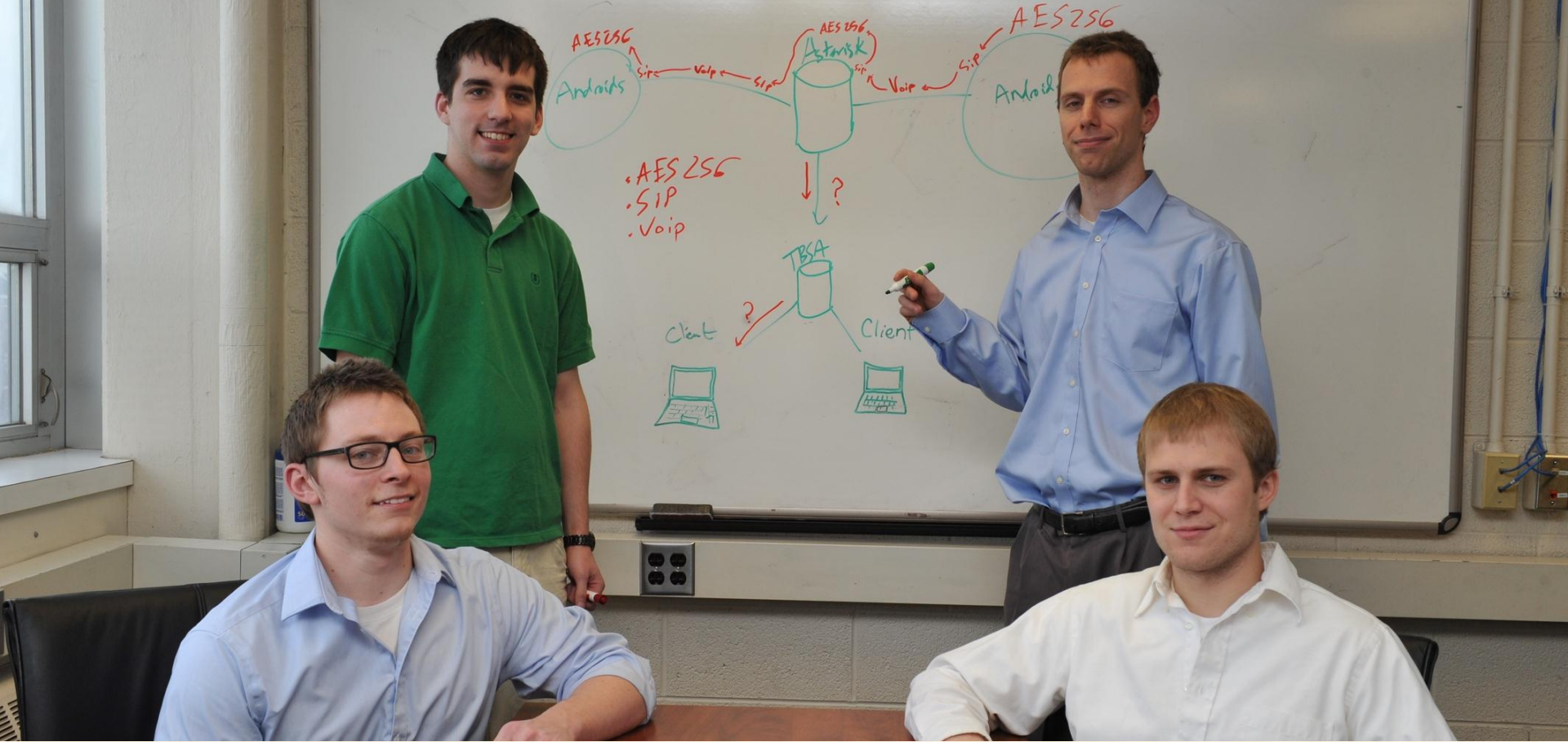
- Functionalities
 - Command and Control Communications
 - Group Voice Collaboration
 - On Android-Based Handheld Devices
 - Via Secure Voice Over Internet Protocol (VoIP)
- Features
 - Select Users or Groups
 - Capture Recordings in Case Folder
 - Integrate with Total Battle Space Awareness (TBSA)
 - Configure MX4025 Radios with Voice Commands
 - Secure with AES 256 Encryption
- Technologies
 - Voice over Internet Protocol (VOIP)
 - Google Android SDK, Java
 - Voice XML, Adobe Flex
 - Speech Recognition
 - Secure Internetworking, Encryption
 - Bluetooth Interface Control



Raytheon

Fort Wayne, Indiana





Team Raytheon

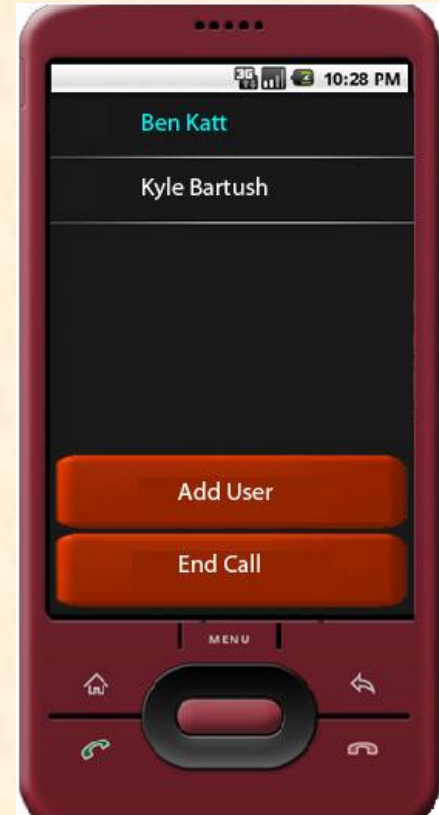
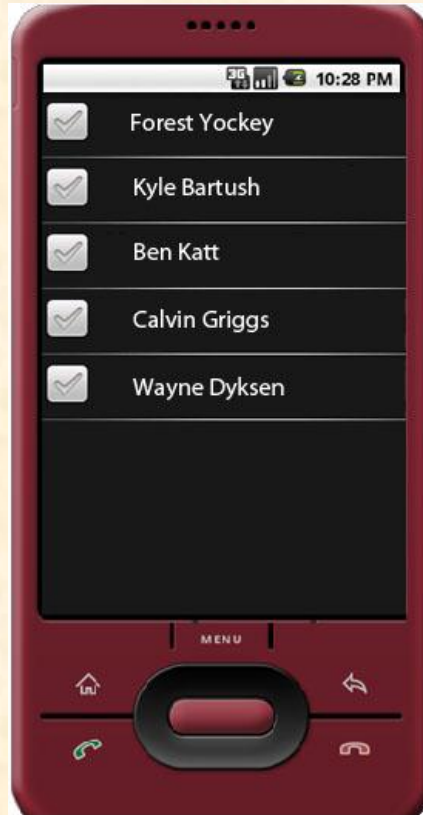
Forrest Yockey, Kyle Bartush, Ben Katt, Calvin Griggs

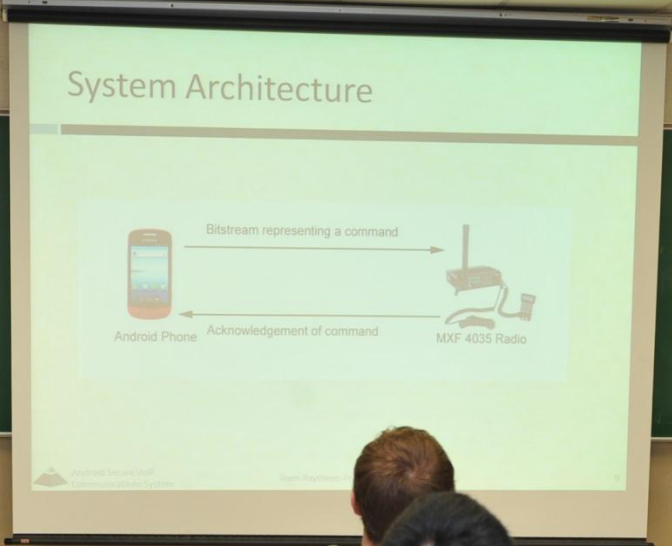


Team Raytheon Project Plan Presentation

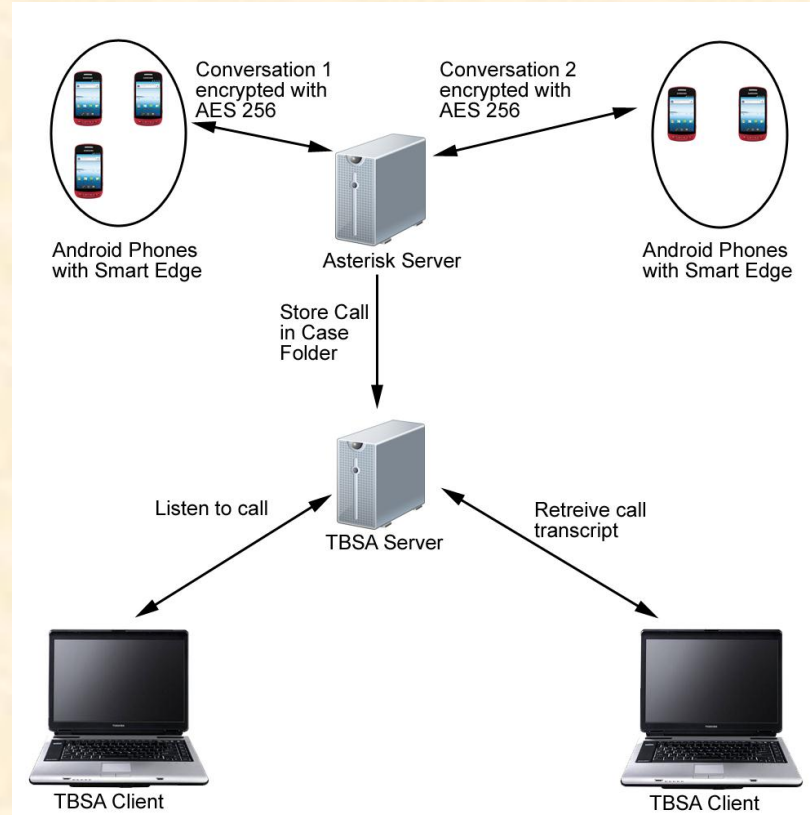
Team Raytheon Project Plan Presentation

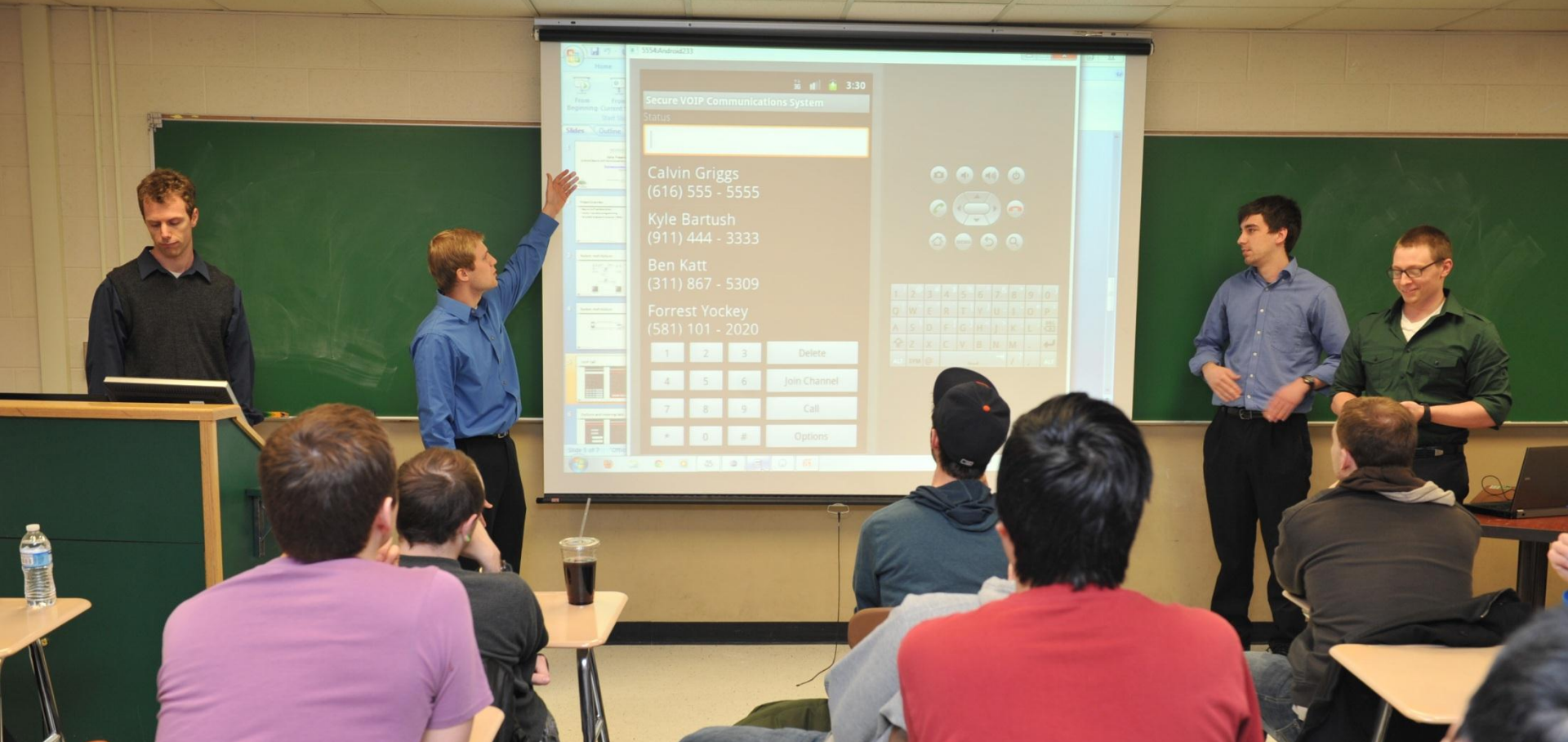
Screen Mockup





Team Raytheon
Project Plan Presentation





Team Raytheon Alpha Presentation

Team Raytheon Alpha Presentation

VoIP Call

3G 9:54

Secure VOIP Communications System

Status

Calvin Griggs
(616) 555 - 5555

Kyle Bartush
(911) 444 - 3333

Ben Katt
(311) 867 - 5309

Forrest Yockey
(581) 101 - 2020

| | | | |
|---|---|---|--------------|
| 1 | 2 | 3 | Delete |
| 4 | 5 | 6 | Send Message |
| 7 | 8 | 9 | Call |
| * | 0 | # | Options |

3G 9:58

Secure VOIP Communications System

Status

Connected Callers

Chuck Norris
(616) 123 - 4567

Kyle Bartush
(911) 444 - 3333

Ben Katt
(311) 867 - 5309

Forrest Yockey
(581) 101 - 2020

Will Ferrell
(581) 101 - 9999

Add Caller End Call





What's left to do?

- Radio project
- RTP/SIP integration
- Conference calls
- Encryption
- Desktop application
- Storing/retrieving calls
- Script to build contact list

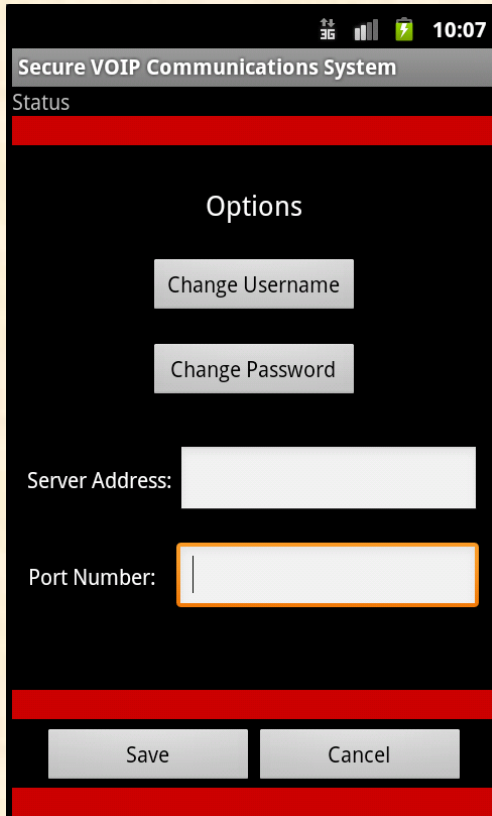
Team Raytheon

Alpha Presentation

Team Raytheon
Alpha Presentation

Team Raytheon Alpha Presentation

Options and Incoming Calls



This screenshot shows the 'Options' screen of the 'Secure VOIP Communications System' app. The status bar at the top indicates 3G connectivity, signal strength, battery level, and the time 10:07. Below the title bar, there is a 'Status' label and a red bar. The main content area is titled 'Options' and contains two buttons: 'Change Username' and 'Change Password'. Below these are input fields for 'Server Address:' and 'Port Number:'. At the bottom, there are 'Save' and 'Cancel' buttons.

Secure VOIP Communications System

Status

Options

Change Username

Change Password

Server Address:

Port Number:

Save Cancel



This screenshot shows the 'Incoming Call' screen of the 'Secure VOIP Communications System' app. The status bar at the top indicates 3G connectivity, signal strength, battery level, and the time 10:09. Below the title bar, there is a 'Status' label and a red bar. The main content area is titled 'Incoming Call' and displays the caller's name 'Calvin Griggs' and the phone number '(616) 555 - 6666'. At the bottom, there are 'Answer' and 'End' buttons.

Secure VOIP Communications System

Status

Incoming Call

Calvin Griggs
(616) 555 - 6666

Answer End

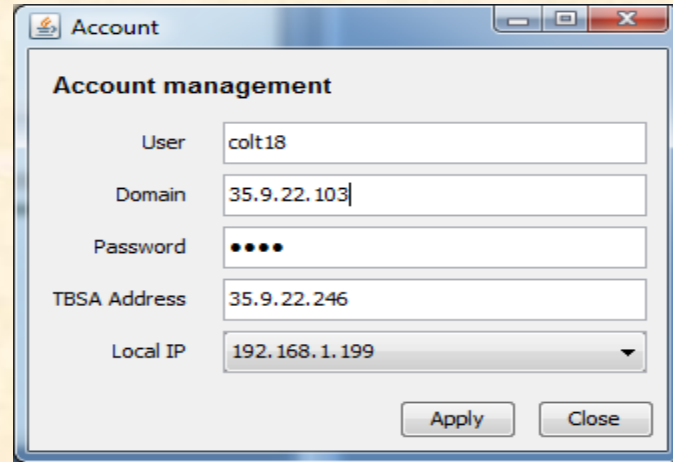
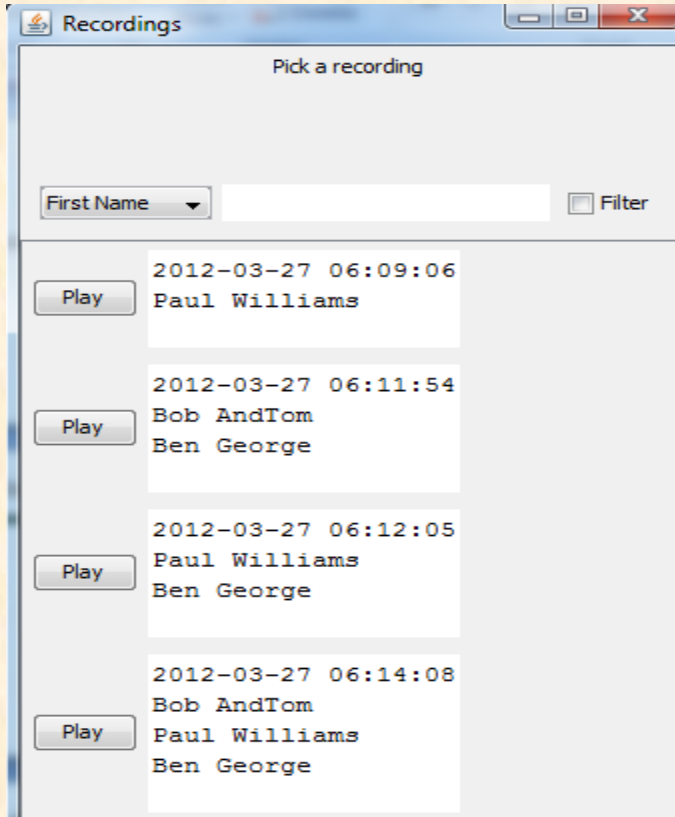




Team Raytheon Beta Presentation

Team Raytheon Beta Presentation

Desktop Application



Team Raytheon Beta Presentation

Android VoIP Application

Raytheon Secure Voip

Registered

Air Warfare Net EXT:19

Paul Williams EXT:12

Call Options

| | | | |
|--------|-------|--------|------|
| 1 | 2 ABC | 3 DEF | - |
| 4 GHI | 5 JKL | 6 MNO | . |
| 7 PQRS | 8 TUV | 9 WXYZ | ✕ |
| * # (| 0 + | ⏏ | Next |

Options

Username

bear1

Password

....

Asterisk IP

35.9.22.103

Save Cancel

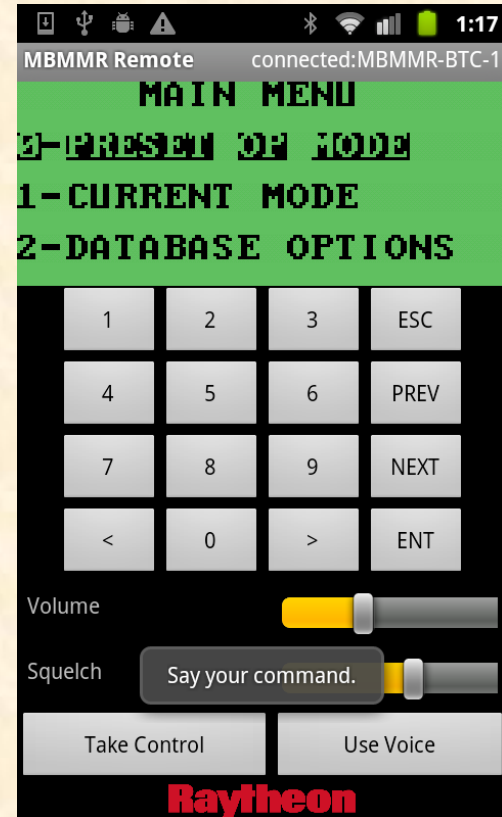
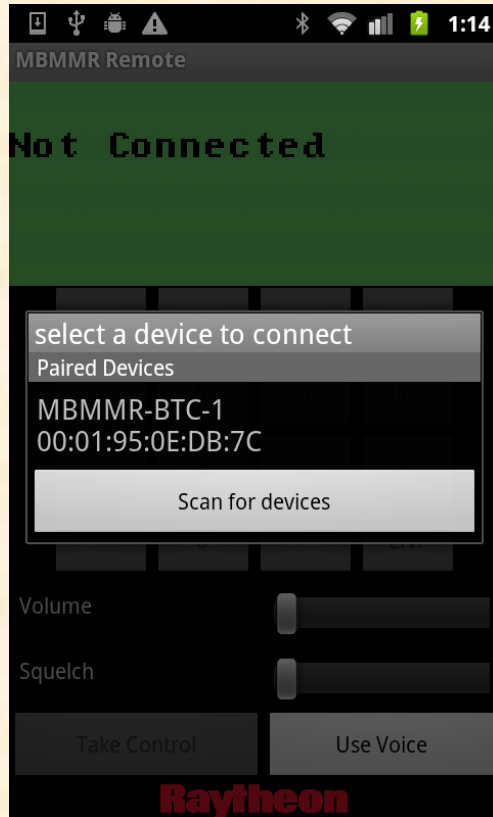




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Radio Application





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Department of Computer Science and Engineering
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Team Spectrum Health Project Overview

Web Applications for Healthier Communities

- Functionalities
 - Web-Based Mobile Evaluation System
 - For Spectrum's Healthier Communities Program
 - Provides Health Care to Under-Served People
 - Throughout Western Michigan
 - Collect and Analyze Client Information
- Features
 - Support for Mobile Tablets (iPad and Android)
 - Adherence to HIPPA Guidelines
 - Encryption of Protected Health Information System
 - Integration with Spectrum's Existing Systems
 - C-Trac
 - Enterprise Data Warehouse
- Technologies
 - Microsoft IIS, SharePoint, Active Directory
 - CSS, HTML, jQuery
 - Microsoft C#/.NET, ASP.NET MVC 3.0
 - Microsoft SQL Server, SQLMetal, Linq

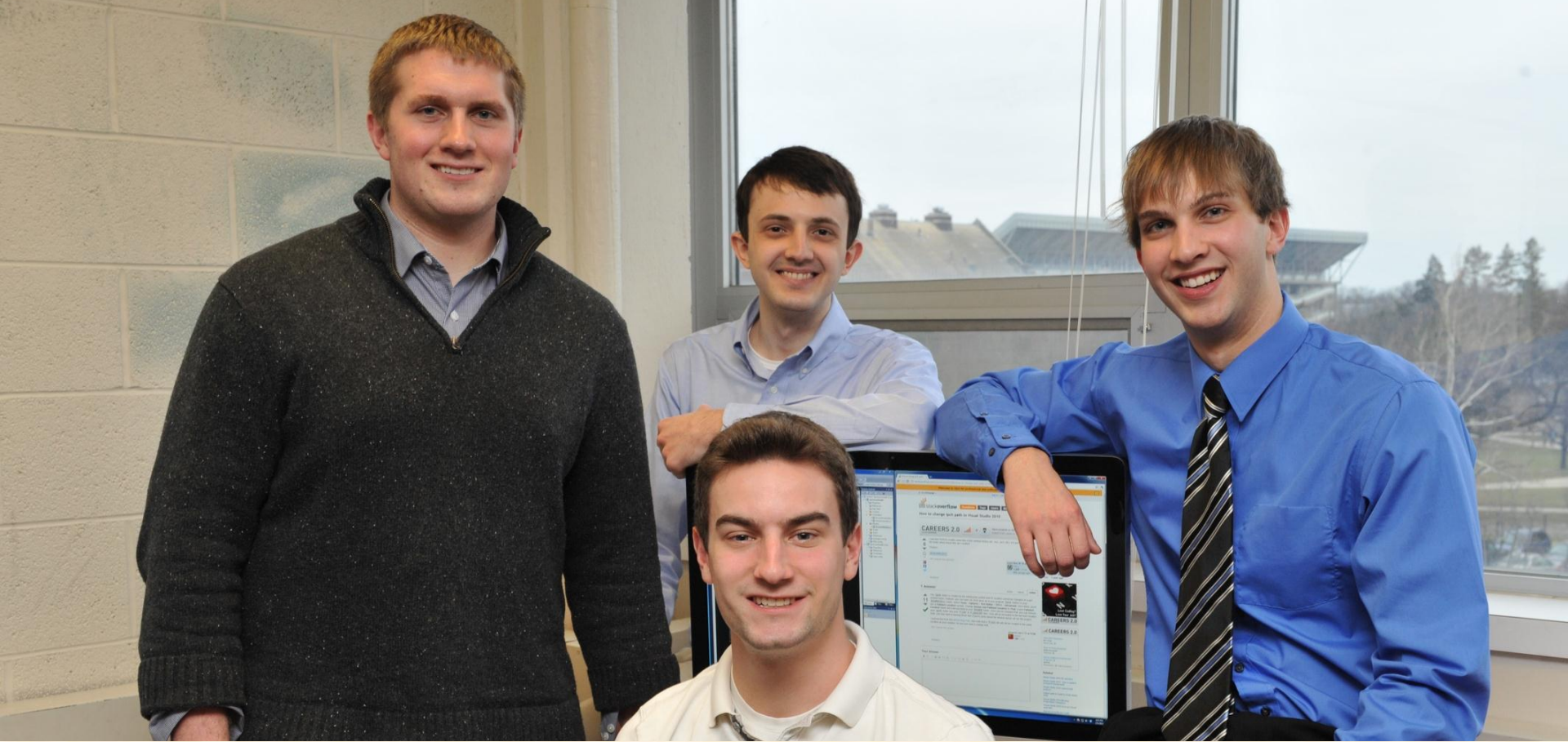


SPECTRUM HEALTH 

Grand Rapids, Michigan

The Capstone Experience





Team Spectrum Health

Brian Duncan, Charlie Andrews, Alper Can, Bret Myers



Screen Mockup: Admin interface

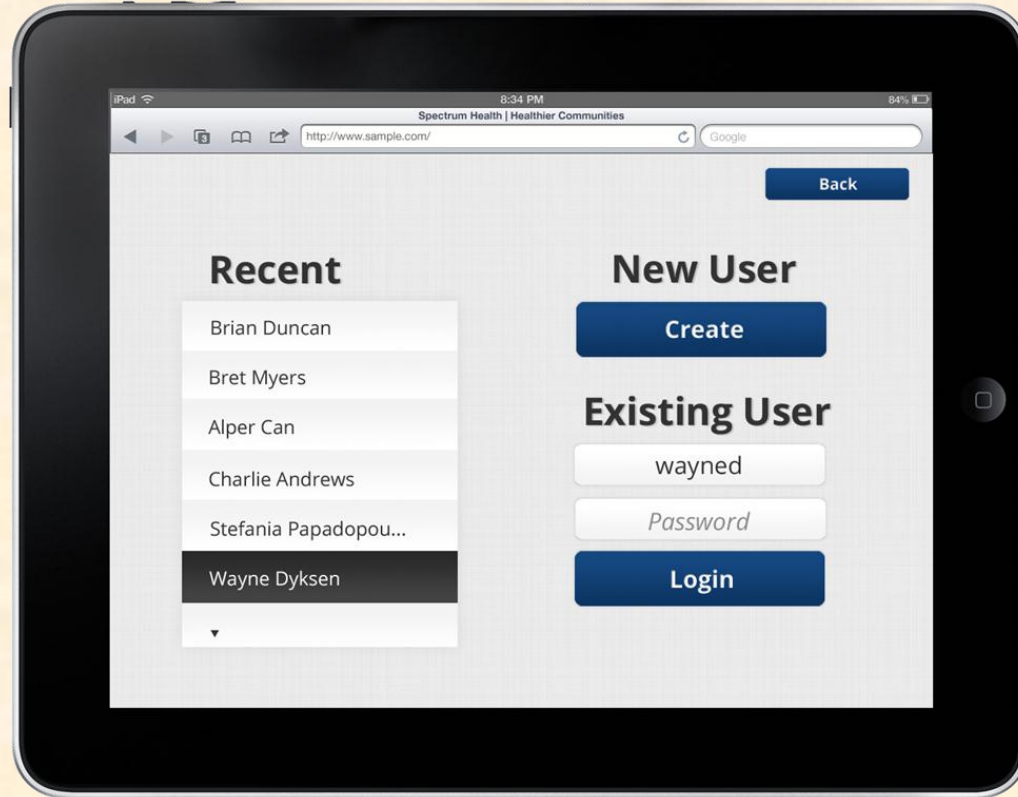
Search

| Participants | Filters |
|------------------|------------|
| Charles Anderson | First name |
| Robert Lee | Last name |
| Robert Johnson | Age |
| Robert Johnson | Volunteer |
| Robert Johnson | Gender |

Team Spectrum Health
Project Plan Presentation

Team Spectrum Health Project Plan Presentation

Screen Mockup



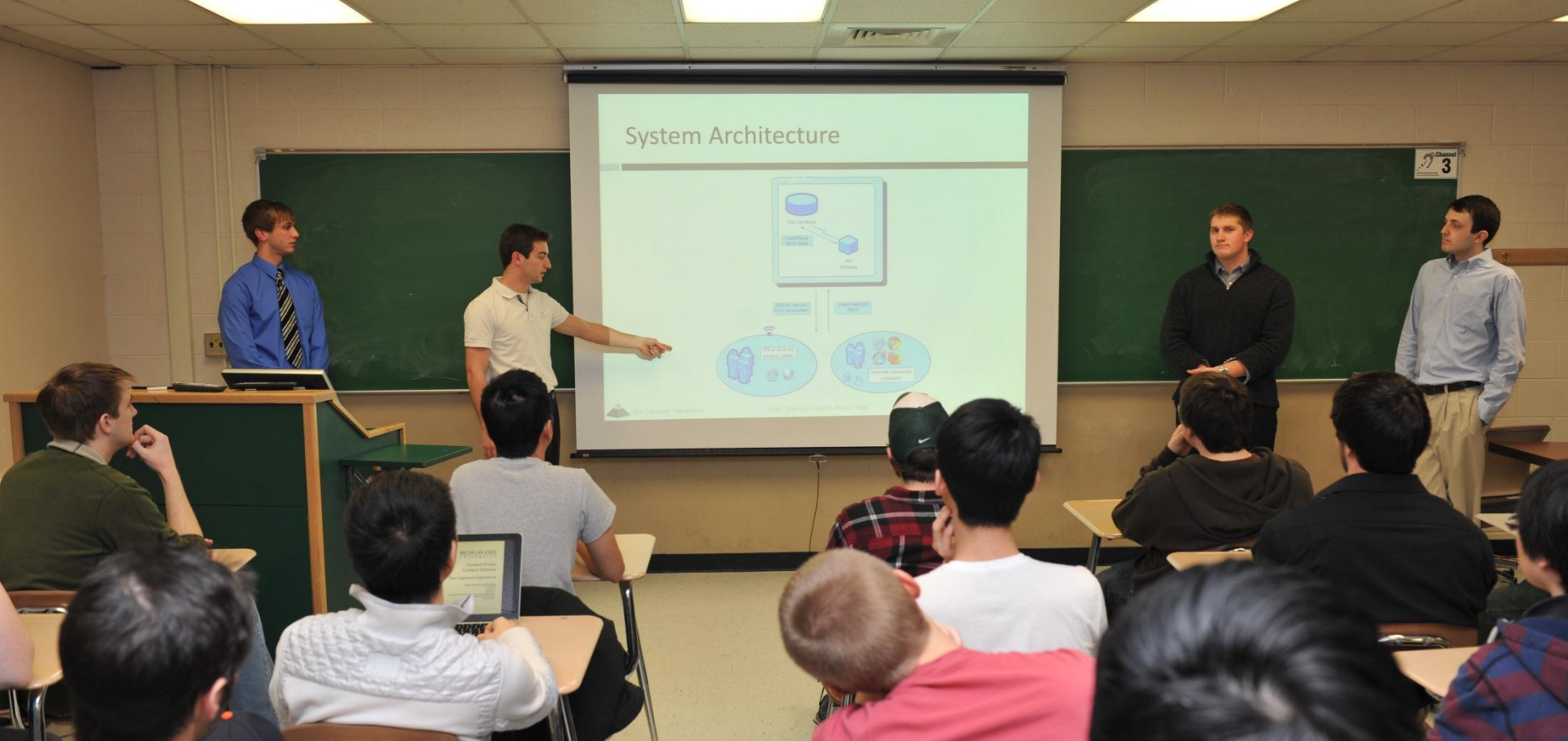
Team Spectrum Health Project Plan Presentation

Screen Mockup

The image shows a tablet displaying a web application interface. The browser address bar shows 'http://www.sample.com/'. The page has a navigation bar with buttons for '< Previous', 'Index', and 'Next >'. Below the navigation bar is a progress indicator showing '18 / 25'. The main content area is titled 'Basic information' and contains a form with the following fields:

| Field | Type | Value |
|------------------------|------------|----------------|
| First name | Text input | |
| Last name | Text input | |
| Nickname | Text input | |
| Date of birth | Dropdown | January 1 1990 |
| Gender | Dropdown | Male |
| Primary phone number | Text input | |
| Alternate phone number | Text input | |
| Zipcode | Text input | |

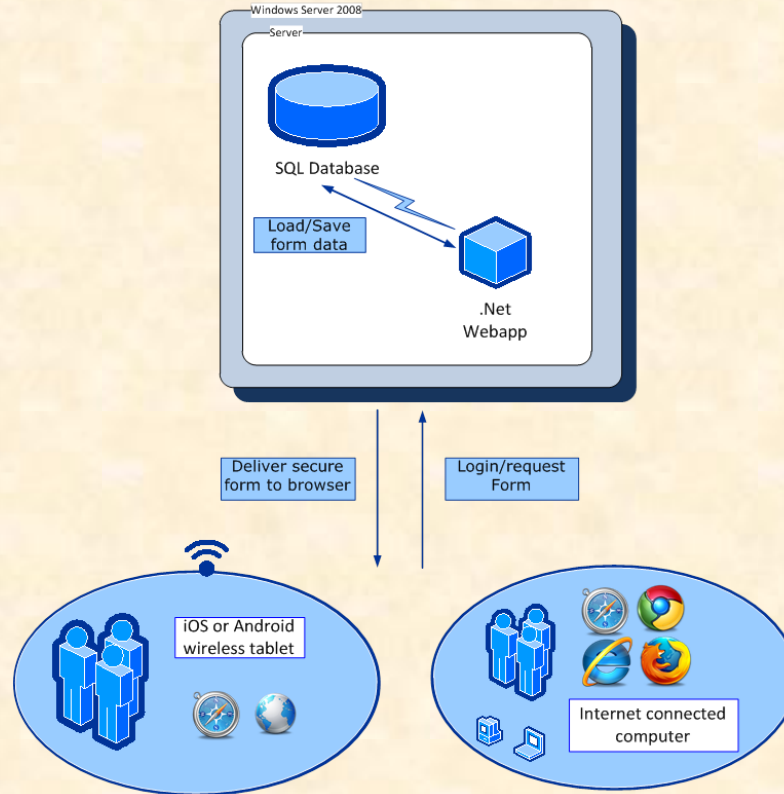




Team Spectrum Health
Project Plan Presentation

Team Spectrum Health Project Plan Presentation

Architecture Diagram





Team Spectrum Health
Alpha Presentation

Team Spectrum Health Alpha Presentation

Volunteer Login View

Log On

localhost:1353/Account/LogOn

Participants

| |
|-----------------------|
| Brian Duncan |
| Bret Myers |
| Alper Can |
| Charlie Andrews |
| Wayne Dyksen |
| Stefania Papadapolous |

New user

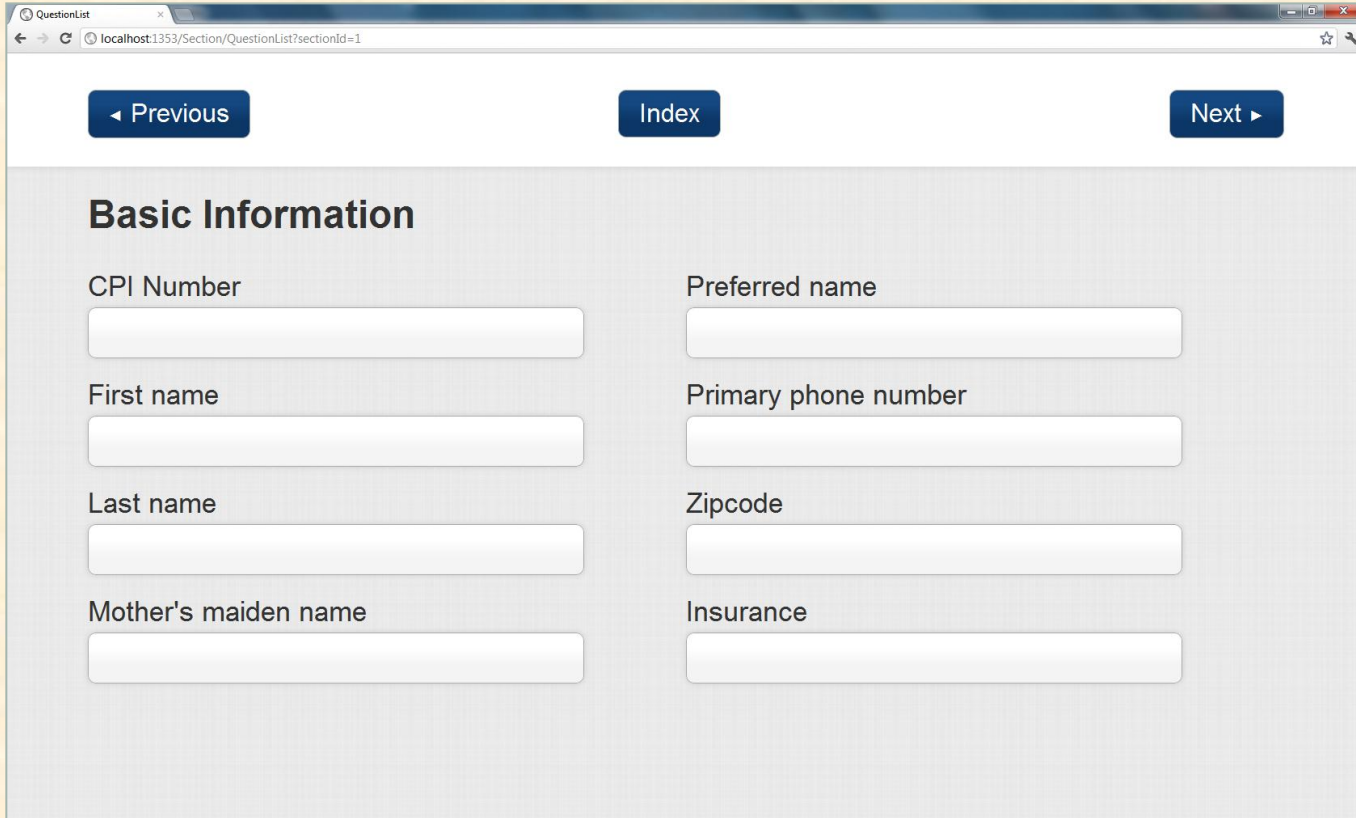




Team Spectrum Health Alpha Presentation

Team Spectrum Health Alpha Presentation

Form View



The screenshot shows a web browser window with the title 'QuestionList' and the URL 'localhost:1353/Section/QuestionList?sectionId=1'. The browser's address bar includes navigation icons and a search icon. The page content features a header with three buttons: 'Previous' (with a left arrow), 'Index', and 'Next' (with a right arrow). Below the header is a section titled 'Basic Information' containing two columns of input fields. The left column includes fields for 'CPI Number', 'First name', 'Last name', and 'Mother's maiden name'. The right column includes fields for 'Preferred name', 'Primary phone number', 'Zipcode', and 'Insurance'. Each field is represented by a white rectangular input box with a thin border.

QuestionList
localhost:1353/Section/QuestionList?sectionId=1

Previous Index Next

Basic Information

CPI Number

Preferred name

First name

Primary phone number

Last name

Zipcode

Mother's maiden name

Insurance

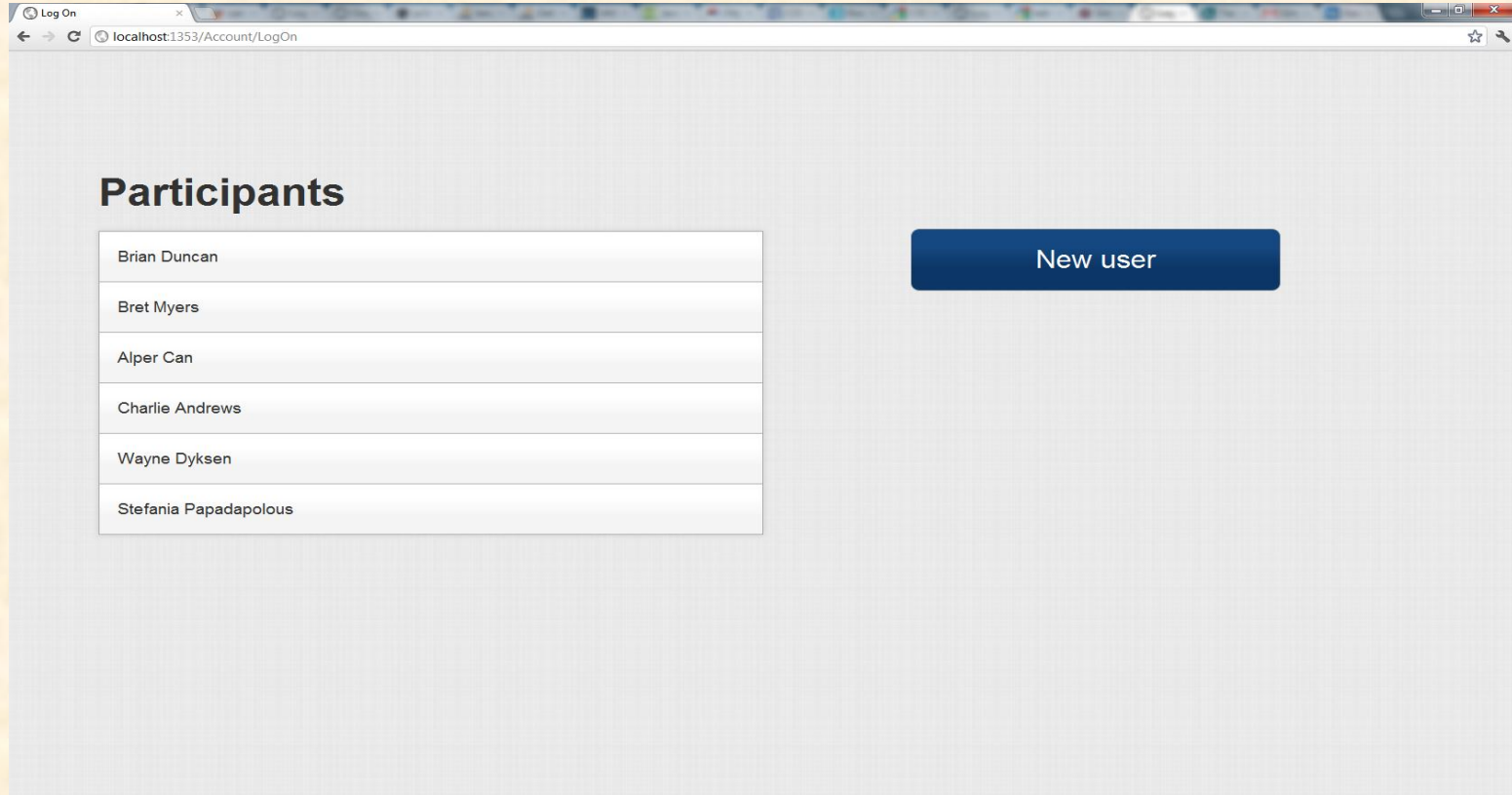




Team Spectrum Health Beta Presentation

Team Spectrum Health Beta Presentation

Volunteer Login View



Log On

localhost:1353/Account/LogOn

Participants

| |
|-----------------------|
| Brian Duncan |
| Bret Myers |
| Alper Can |
| Charlie Andrews |
| Wayne Dyksen |
| Stefania Papadapolous |

New user



Team Spectrum Health Beta Presentation

Form View

Menu

Next ▶

6/8

Bret


Gender

Male☐

Female☐

dsf☐

Feet



Full Name

Bret3/25/2012

Bret3/25/2012

Bret3/27/2012

Bret Myers4/1/2012

Gender

Male3/25/2012

3/25/2012

Male3/27/2012

Male,dsf4/1/2012



Team Spectrum Health
Beta Presentation

Team Spectrum Health Beta Presentation

Previously Completed Forms

New forms

Core Health

Monthly

Previous forms

Core Health by volunteer2 at 4/1/2012 8:26:52 PM

Print

Core Health by volunteer2 at 4/1/2012 6:38:39 PM

Print

Core Health by volunteer2 at 4/1/2012 4:08:14 PM

Print

Core Health by volunteer2 at 3/28/2012 3:46:44 PM

Print

Core Health by volunteer2 at 3/28/2012 3:29:14 PM





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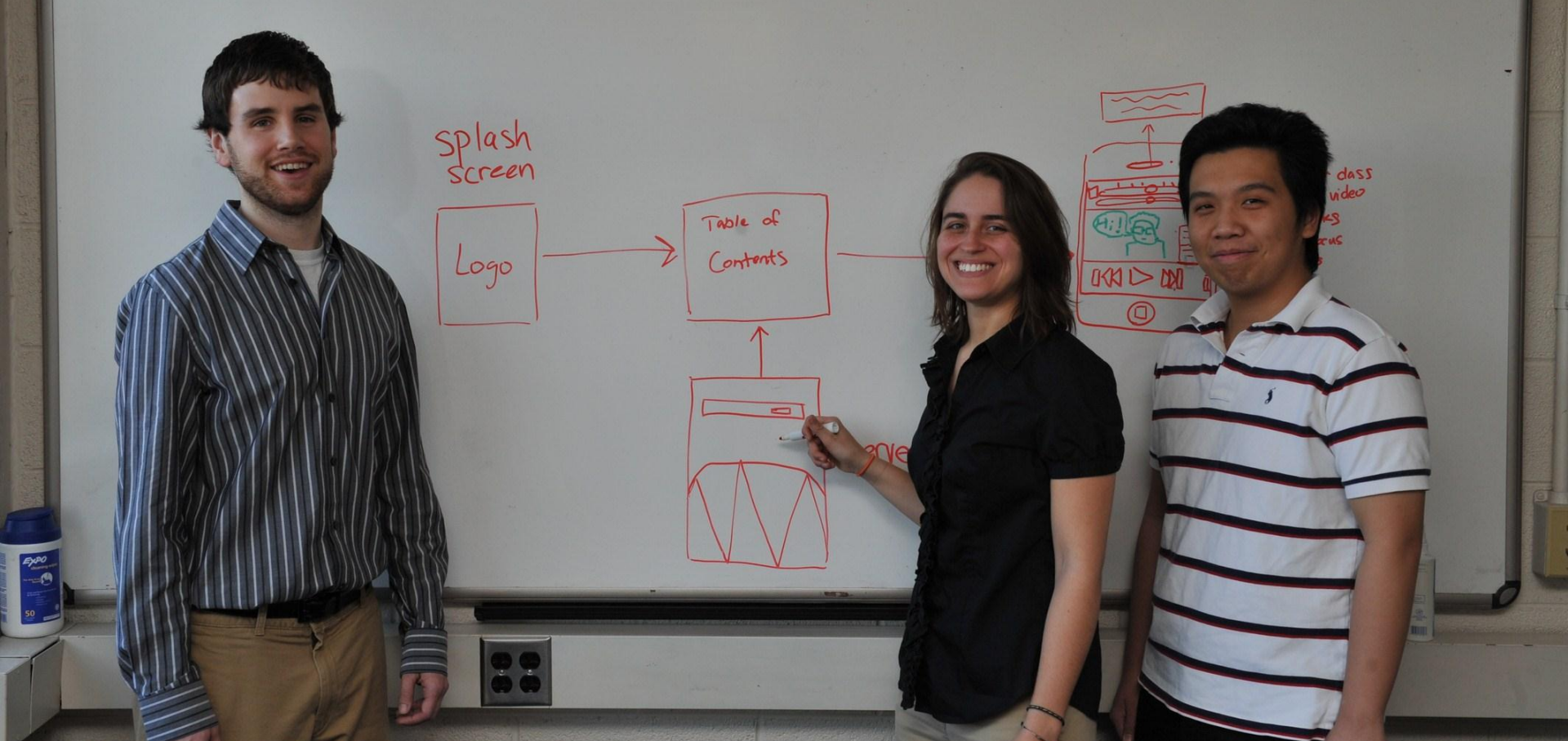


Team TechSmith Project Overview

Mobile Smart Video Player

- Functionalities
 - Video Player for iPhone and iPad
 - Rich Playback Experience
 - Enhanced Navigation
 - Leverage Metadata
- Features
 - Table of Contents and Hotspots
 - User Settable Bookmarks
 - Timed Text Captions Displayed During Playback
 - Support For Panning and Zooming
 - Varied Playback Speeds with Audio Pitch Adjustments
 - Aggregation of Metadata from Multiple Viewers
- Technologies
 - Apple iOS iPhone /iPad SDK, C, Objective-C
 - TechSmith Camtasia Studio
 - Microsoft C#/.NET, ASP.NET
 - Web Services (RESTful)





Team TechSmith

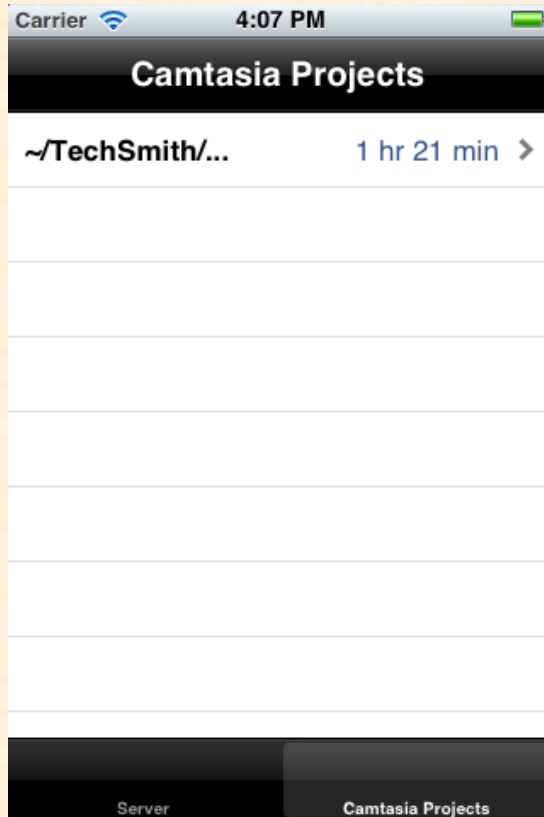
Scott Klum, Meryl Dara Mabin, Yue Lu



Team TechSmith Project Plan Presentation

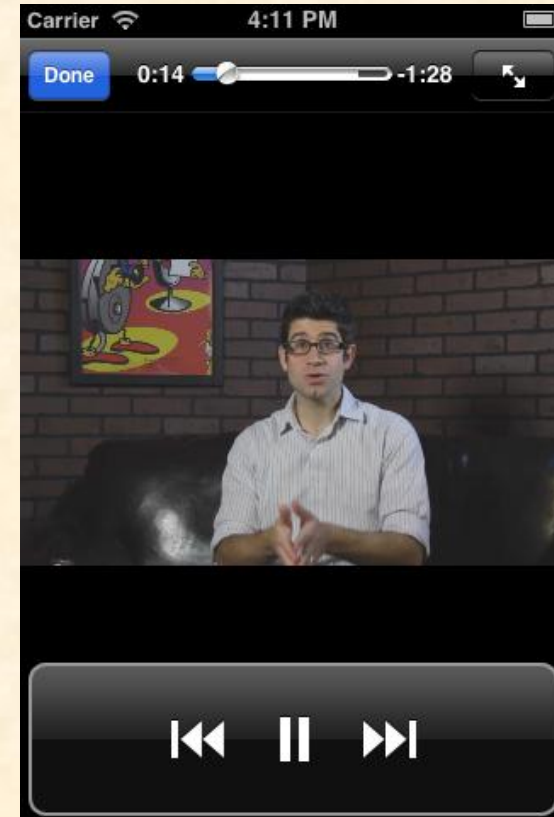
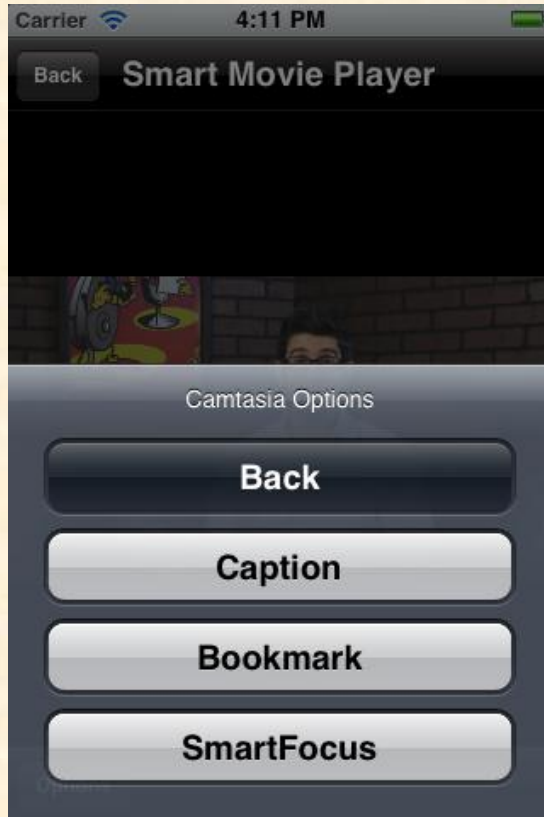
Team TechSmith Project Plan Presentation

Screen Mockup



Team TechSmith Project Plan Presentation

Screen Mockup

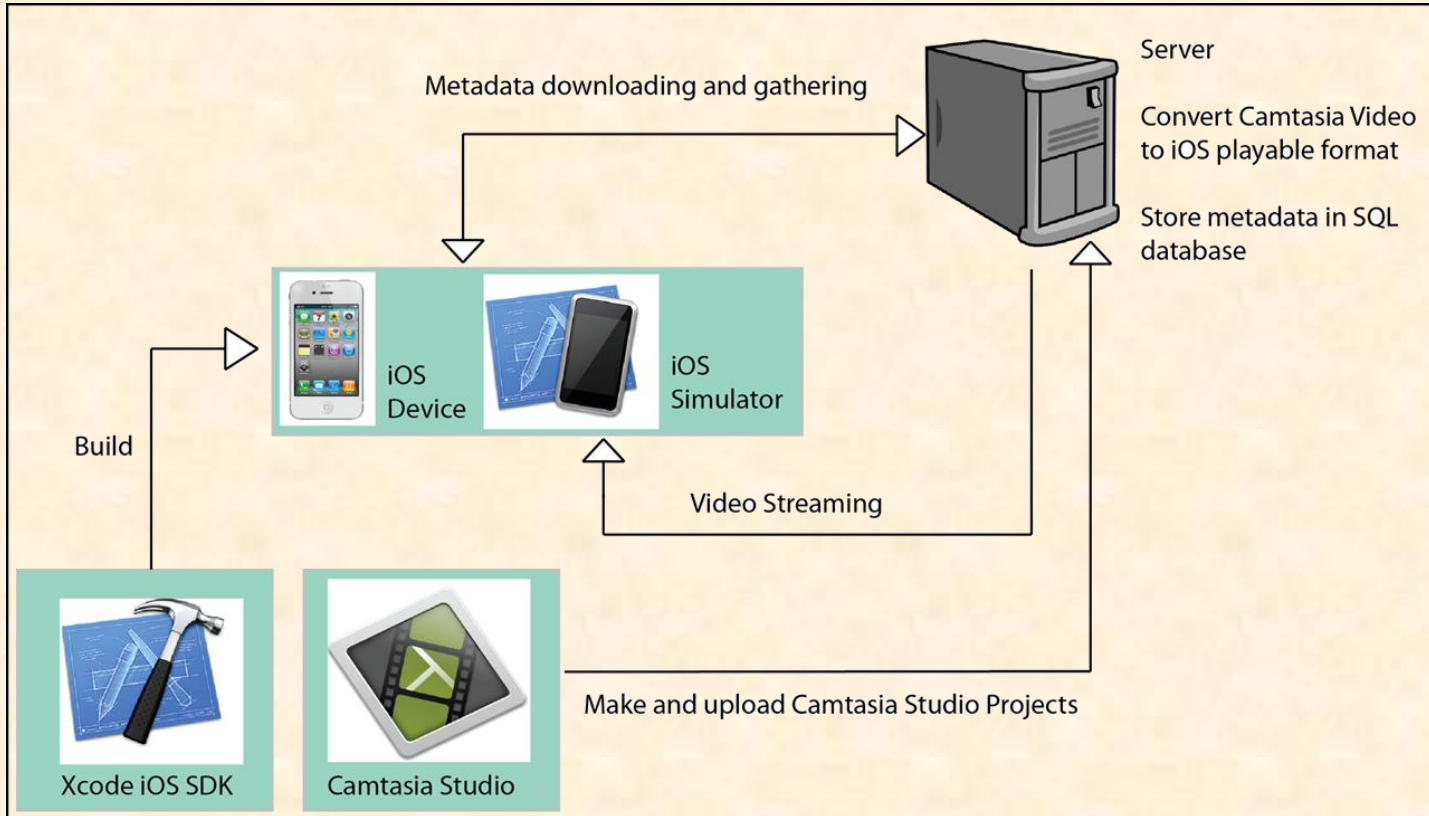




Team TechSmith Project Plan Presentation

Team TechSmith Project Plan Presentation

Architecture Diagram

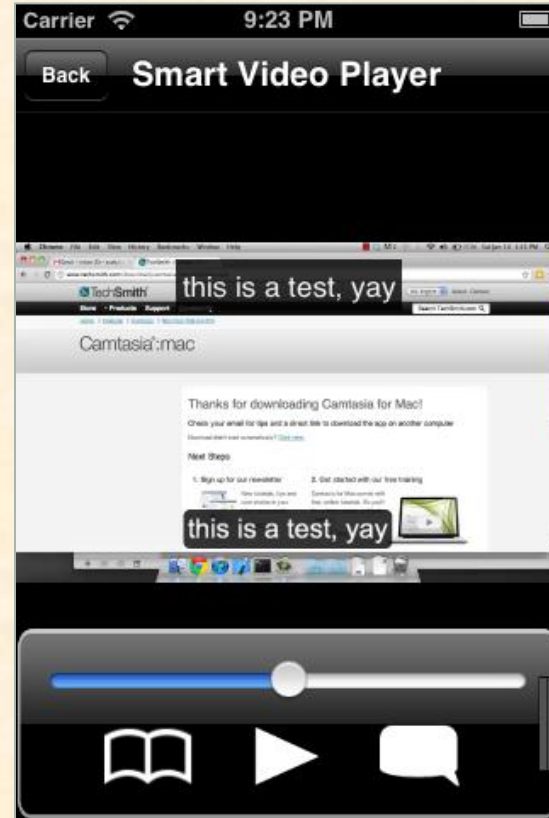
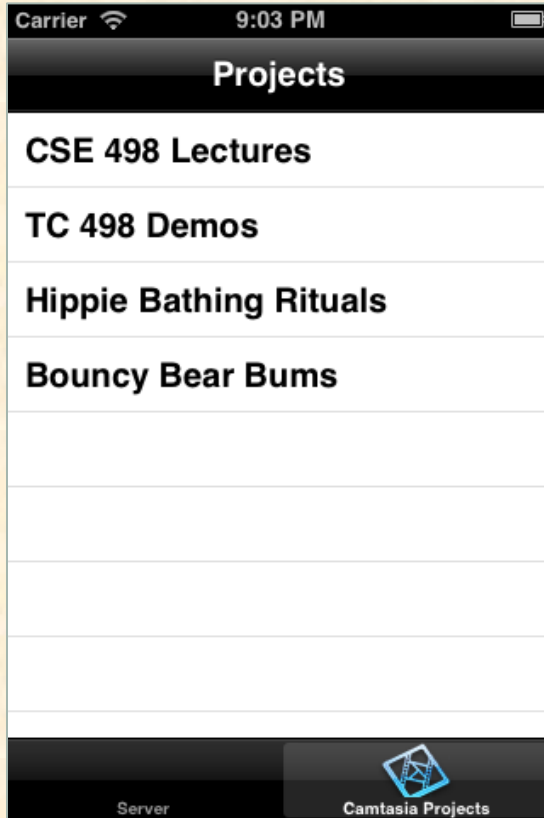




Team TechSmith
Alpha Presentation

Team TechSmith Alpha Presentation

Table of Contents and Player

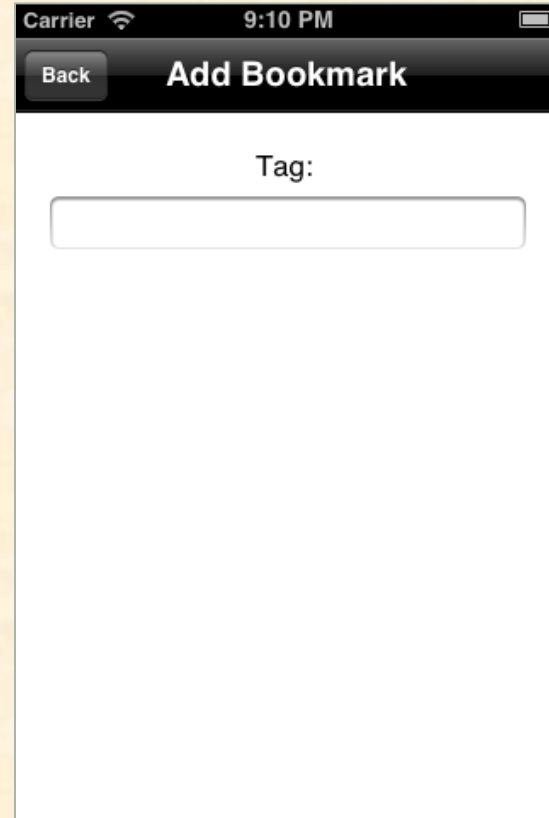
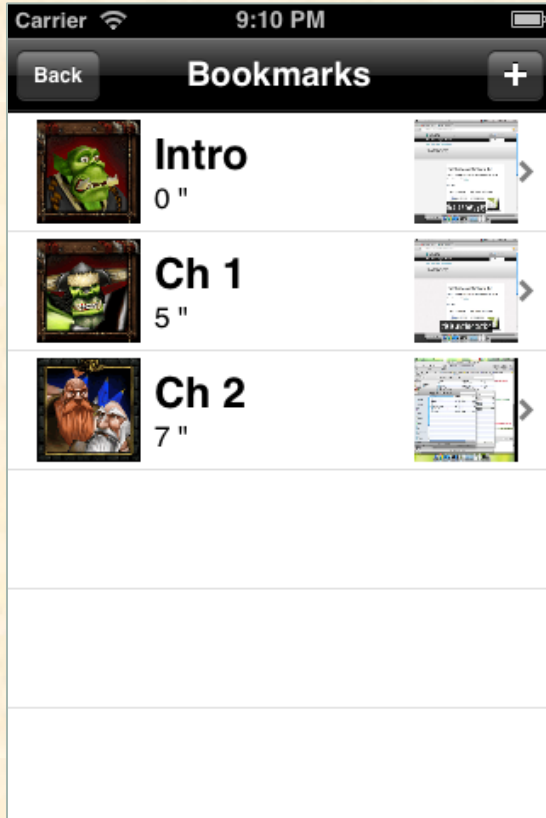




Team TechSmith Alpha Presentation

Team TechSmith Alpha Presentation

Slide Title





Team TechSmith
Beta Presentation

Team TechSmith Beta Presentation

Login Screen



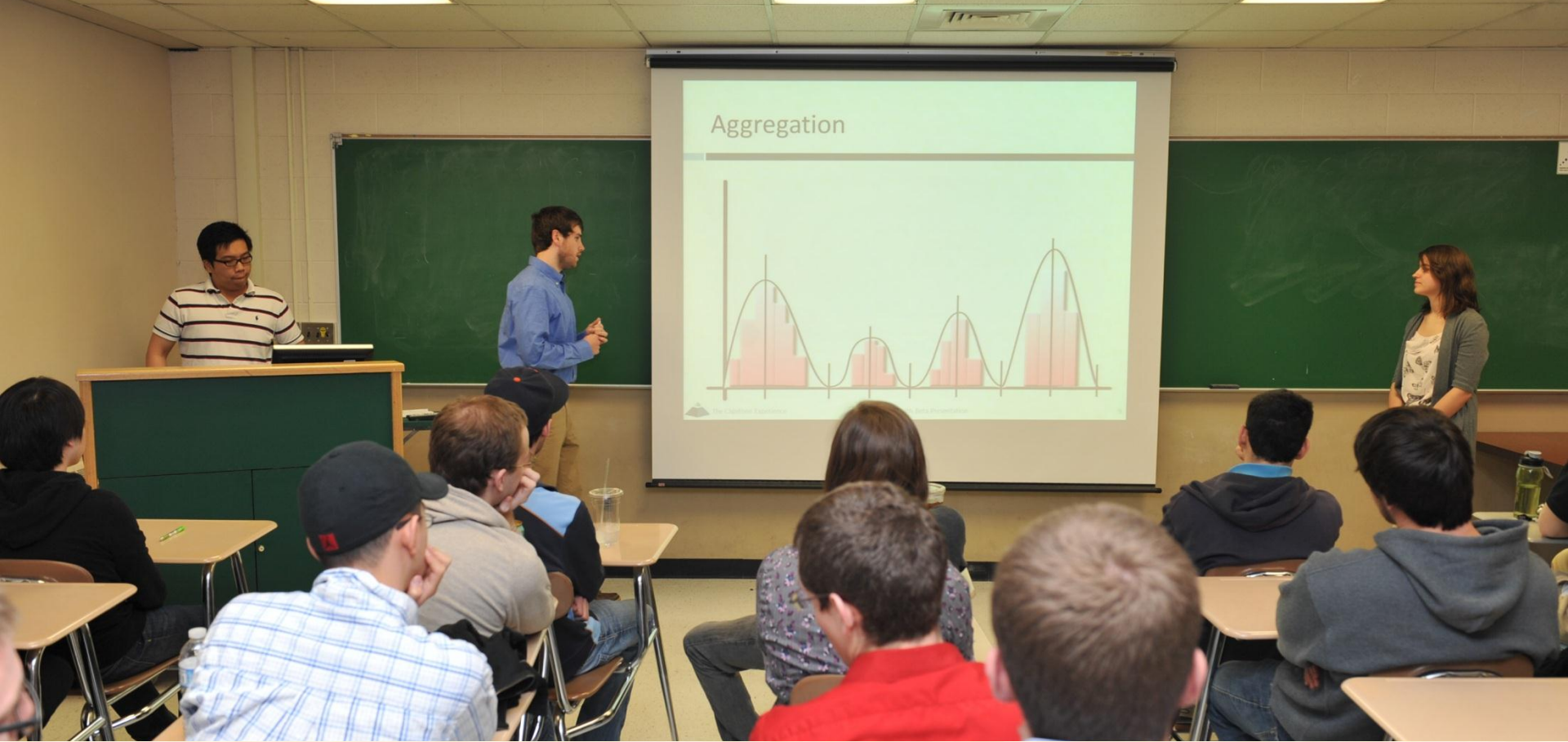


Team TechSmith
Beta Presentation

Team TechSmith Beta Presentation

Video Player

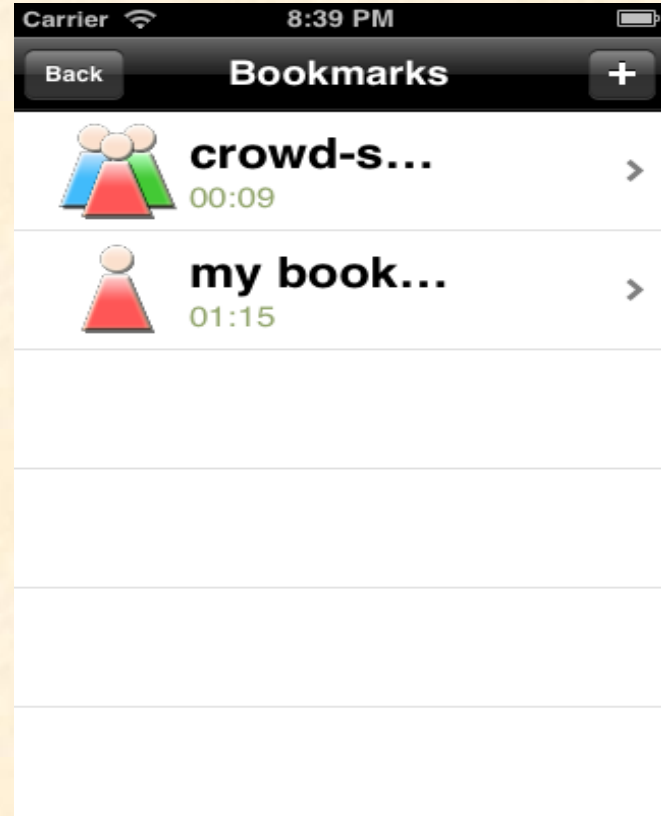
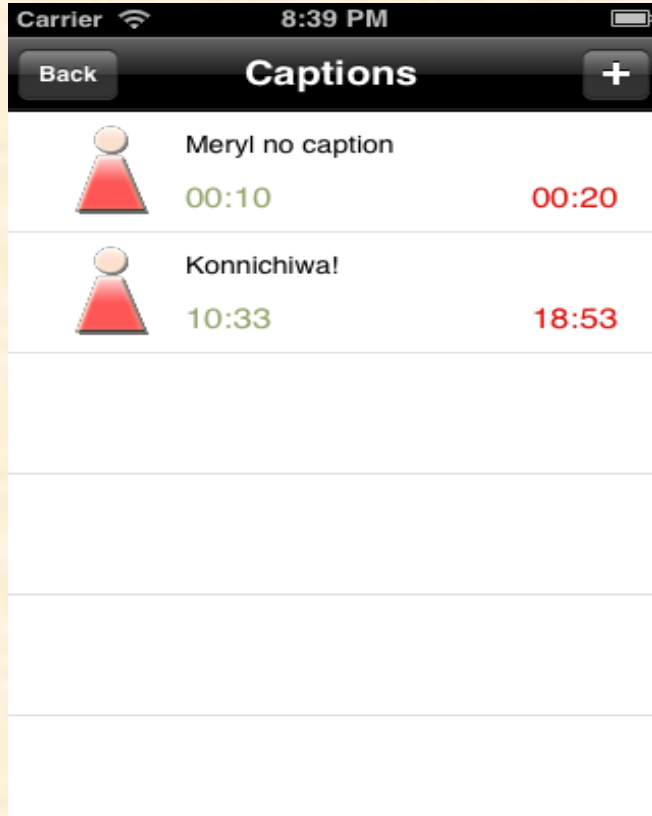




Team TechSmith
Beta Presentation

Team TechSmith Beta Presentation

Adding/Editing Metadata





TechSmith Mobile Smart Video Player

TechSmith is the world leader in screen recording software with millions of users creating informational and educational content. Their content creation products generate valuable metadata that can enhance the viewing experience.

Our Mobile Smart Video Player is an iPhone/iPad application that makes use of this metadata, extending the functionality of TechSmith's Camtasia Studio screen-capture editing software to a mobile environment. It learns what video content is most relevant by sampling each user's tags and by displaying the optimal content to all users.

While watching a screen-capture movie using the Mobile Smart Video Player, a user can gesture to add a bookmark, an on-screen comment about the content, or a SmartFocus zooming or panning point.

Every user-generated tag is added to a database to which tags from users worldwide are constantly being added. The most commonly-placed tags are pulled from this crowd-sourced collection onto all users' iPhones and iPads. Each individual user has the option of viewing their own data alone or the most popular crowd-sourced data from around the world.

Our Mobile Smart Video Player is written in Objective-C; video content comes from Camtasia Studio. The XML metadata is parsed using Google libraries and is stored in a Microsoft SQL Server database. Our player communicates with the server via the RESTful Open Data Protocol.



TechSmith



Michigan State University Team Members (left to right)

- Scott Klum
Grand Rapids, Michigan
- Meryl Dara Mabin
Rockford, Michigan
- Yan Lu
Chaozhou, Guangdong, China

TechSmith Project Sponsors

- Dean Craven
Owens, Michigan
- Ryan Eash
Owens, Michigan
- Bill Hamilton
Owens, Michigan
- Dave McCollom
Owens, Michigan
- Matt Mercieca
Owens, Michigan
- Mike Simons
Owens, Michigan

Team TechSmith Design Day

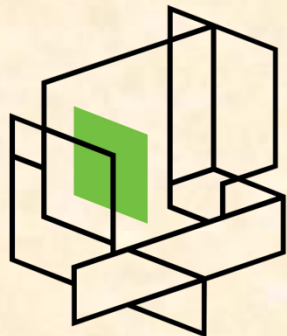
The Capstone Experience

Team Urban Science

Department of Computer Science and Engineering
Michigan State University
Spring 2012



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



URBAN SCIENCE™

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We partner with performance-focused clients, and this

News

Auto Dealers Rely on Phones to

Careers

How far can you go at Urban

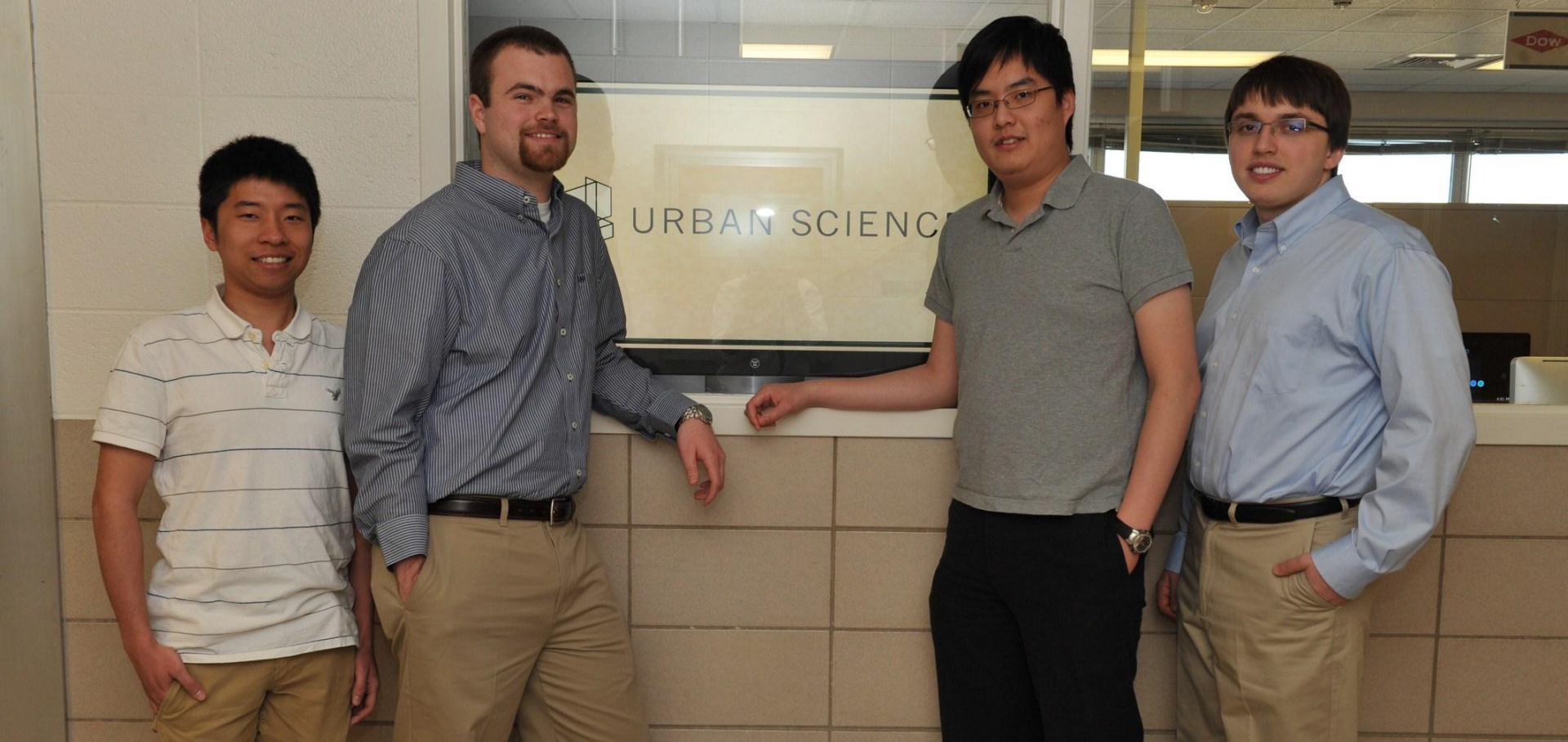
Team Urban Science Project Overview

Infographic Generator

- Functionalities
 - Visualize Data and Information
 - Graphically
 - Compactly
 - Creatively
 - Based on Key Performance Indicators (KPIs)
- Features
 - Dynamic User Selections
 - Key Performance Indicators
 - Timeframes
 - Display Engaging Graphics
 - Scalable
 - Varied
 - Support Drill Down into KPIs
- Technologies
 - Microsoft C#/.NET, ASP.NET
 - JavaScript
 - CSS, HTML5
 - SQL Server



URBAN SCIENCE
Detroit, Michigan

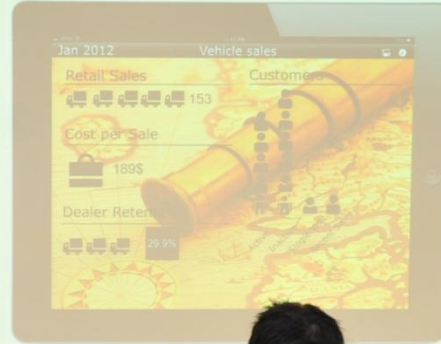


Team Urban Science

Louis Bodnar, Peter Chen, Kevin Shreve, Lok Cheung



Screen Mockup: Infographic Screen



Team Urban Science
Project Plan Presentation

Team Urban Science Project Plan Presentation

Screen Mockup

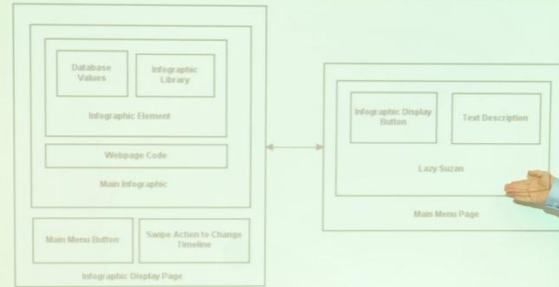


Team Urban Science Project Plan Presentation

Screen Mockup



System Architecture



The Classroom Experience

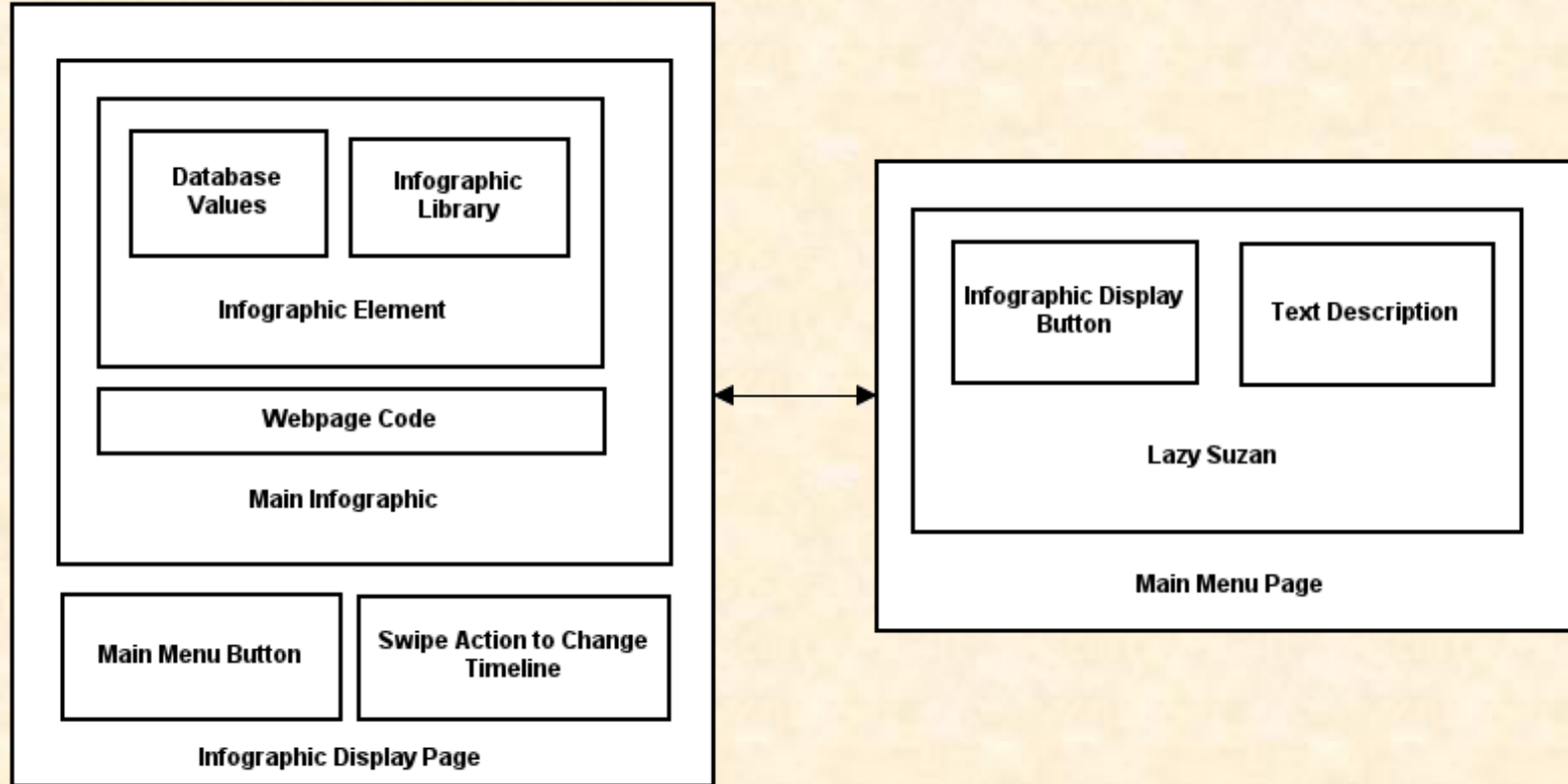
Team Urban Science

11

Team Urban Science
Project Plan Presentation

Team Urban Science Project Plan Presentation

Architecture Diagram

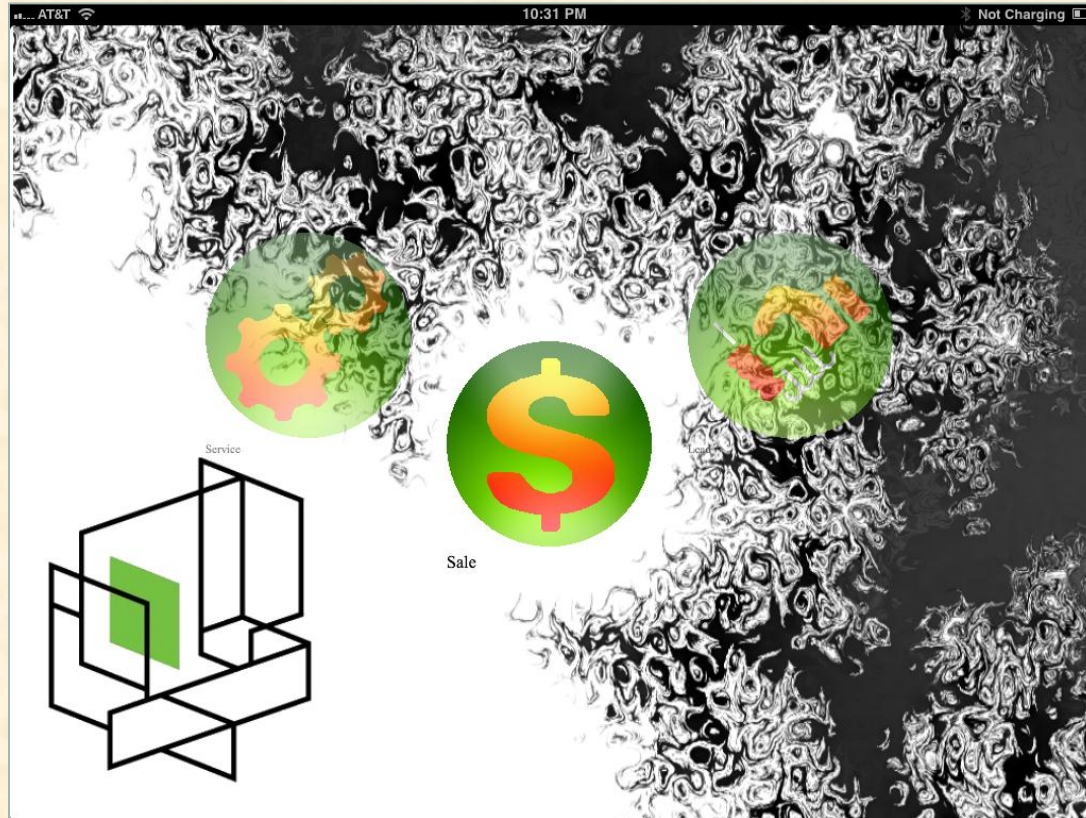




Team Urban Science Alpha Presentation

Team Urban Science Alpha Presentation

Main Menu (Landscape)



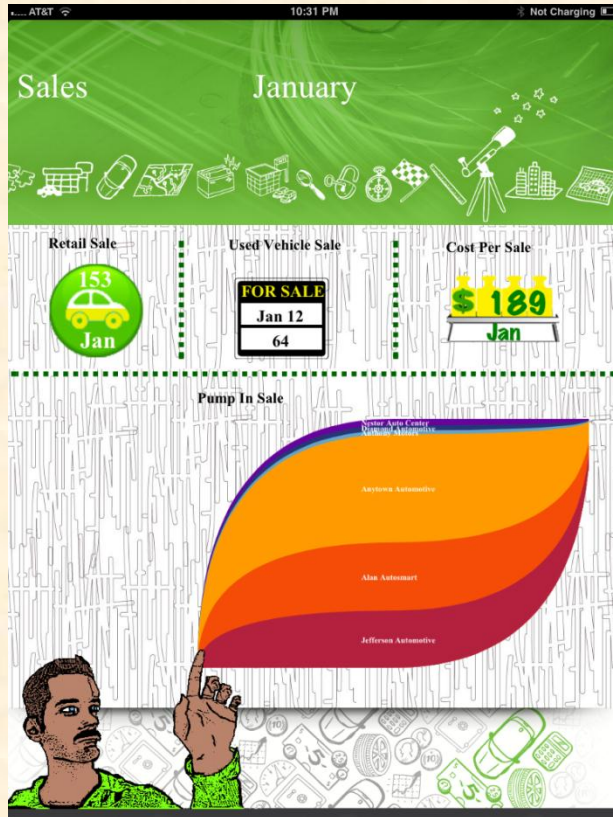
The Capstone Experience





Team Urban Science Alpha Presentation

Sales Infographics

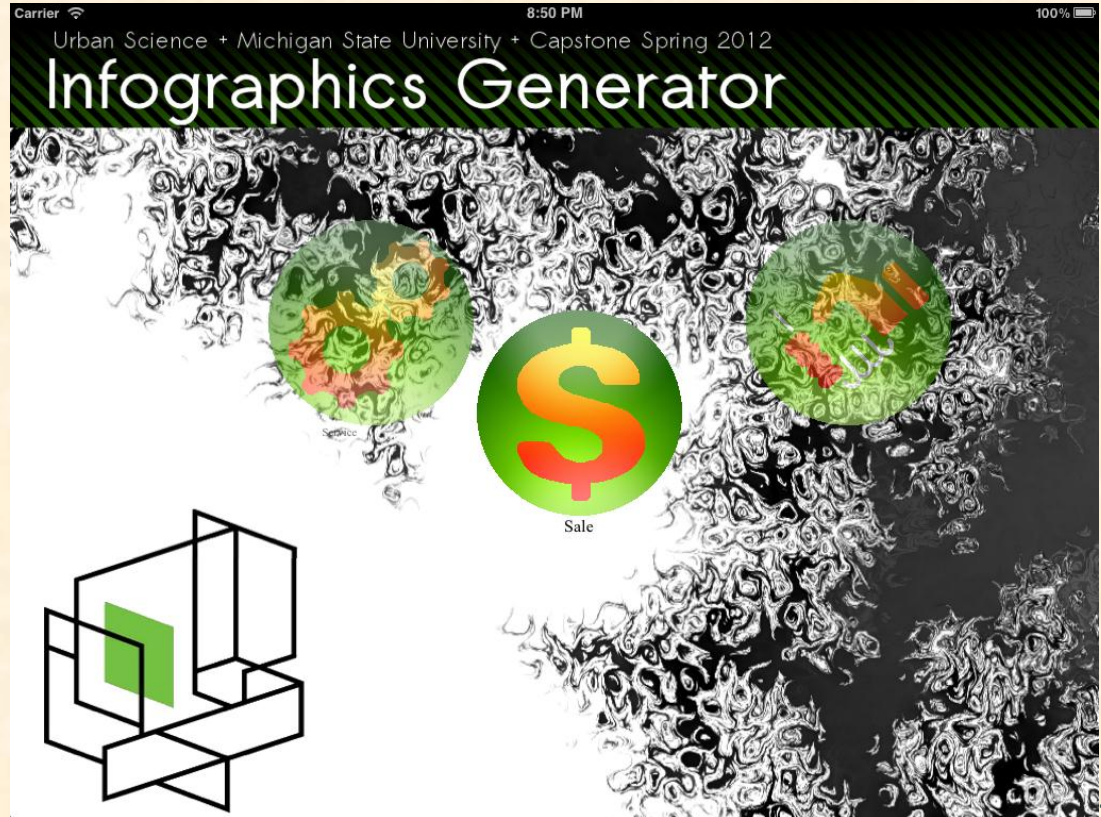




Team Urban Science Beta Presentation

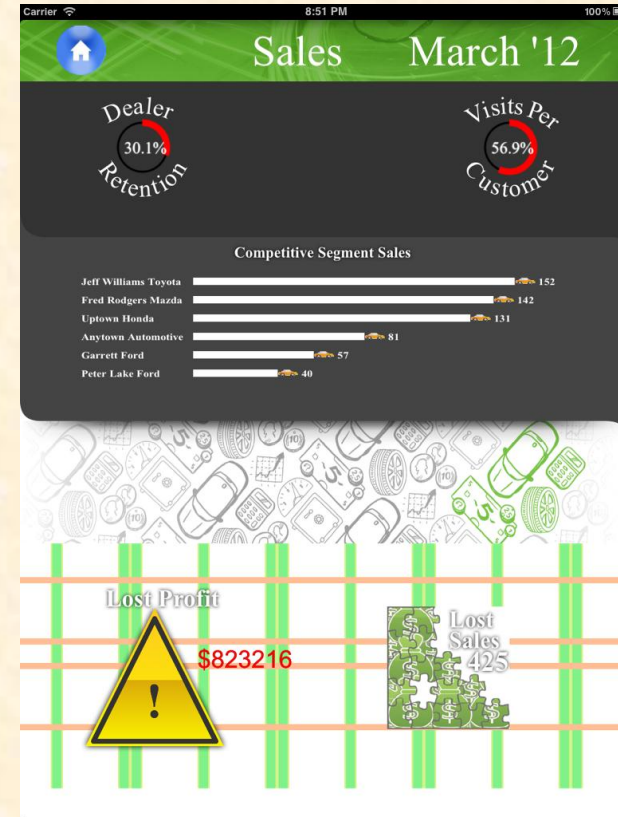
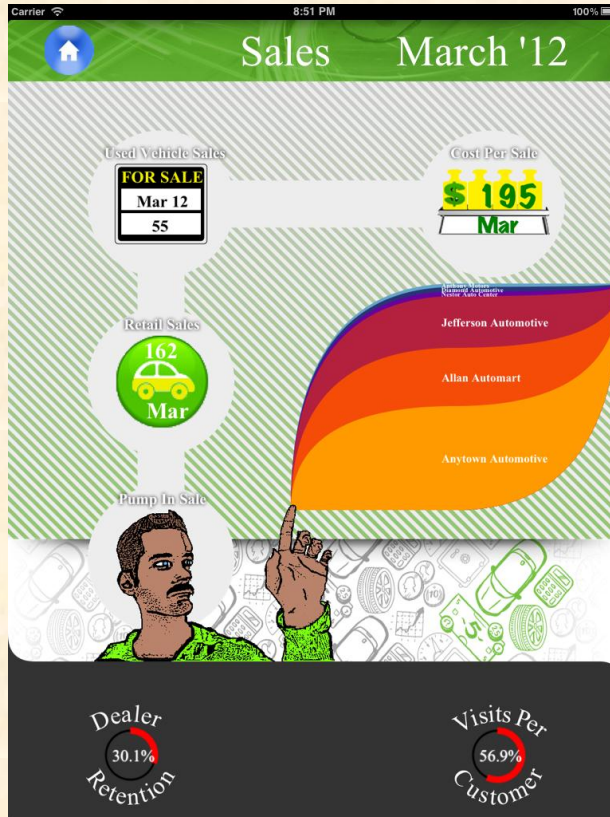
Team Urban Science Beta Presentation

Home Page



Team Urban Science Beta Presentation

Sales Infographic

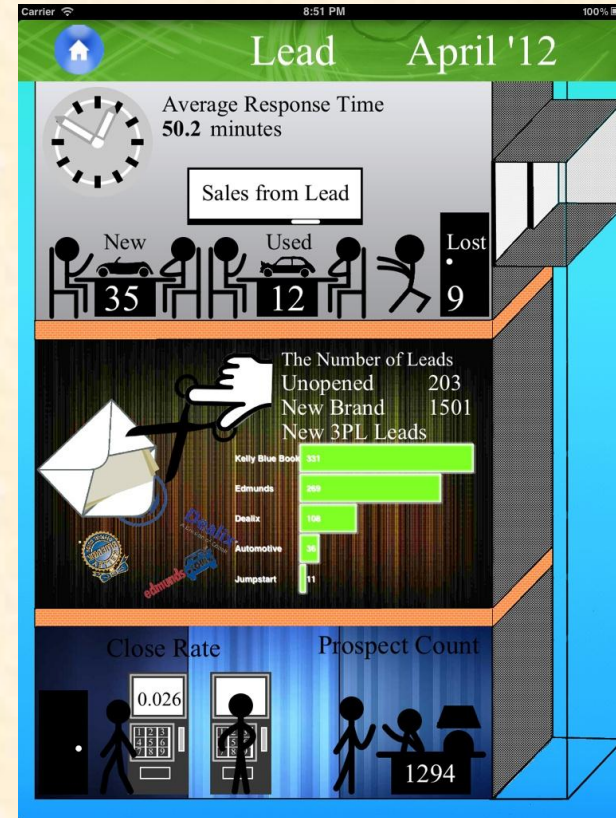
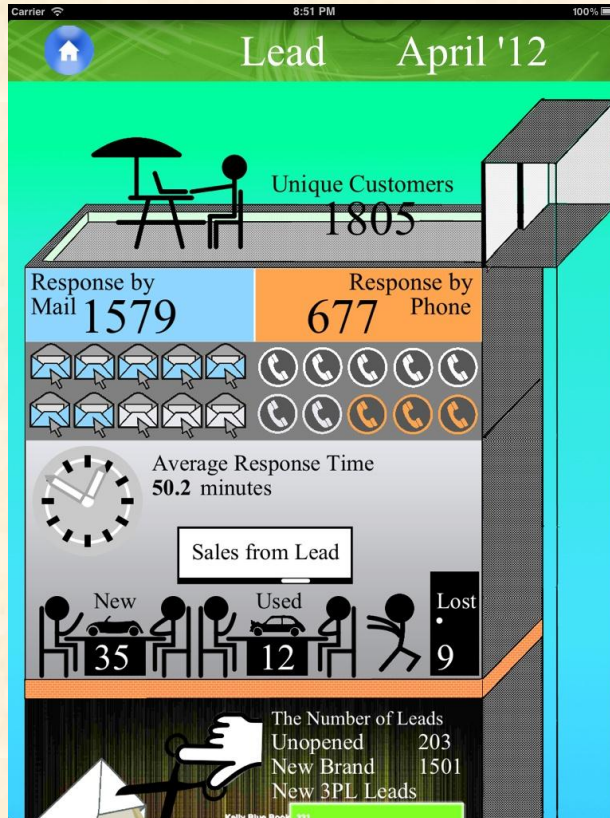




Team Urban Science Beta Presentation

Team Urban Science Beta Presentation

Lead Infographic





Team Urban Science
Design Day

MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Spring 2012



*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

The Capstone Experience

Design Day Award Winners

April 27, 2012



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

MSU
UNION



All-Hands
Design Day, April 27, 2012



Auto-Owners Exhibition Award

Team Mozilla, Spring 2012

[In-Content Preferences for Firefox](#)

Joe Chen, Jon Rietveld, Owen Carpenter, Devan Sayles

Presented by Scott Lake of [Auto-Owners Insurance](#)



Chrysler Praxis Award

Team Boeing, Spring 2012

Design, Fly and Compete Flight Simulator

Brandon Overall, Jon Moore, David Cornelius

Presented by Karen Wrobel of Chrysler



TechSmith Screencast Award

Team Plex Systems, Spring 2012

[HTML5-Based WYSIWYG Label Designer](#)

Matt Duffy, Michele Winsky, Andrew Melfi

Presented by Dean Craven of [TechSmith](#)



Urban Science Sigma Award

Team GE Aviation, Spring 2012

Mobile Avionics Weather

Mike Dunn, Eric Cook, Drew Space

Presented by Matt Bejin and Greg Davidson of Urban Science

The Capstone Experience

Design Day Award Winners

December 9, 2011



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All-Hands
Design Day, December 9, 2011



Auto-Owners Exhibition Award

Team Spectrum Health, Fall 2011

[Log Monitoring Compliance](#)

William D. Seeger, Wayne Stiles, Collin Lotus, Kathryn Bonnen
Presented by Jim Schumacher and Bob Buchanan of [Auto-Owners Insurance](#)



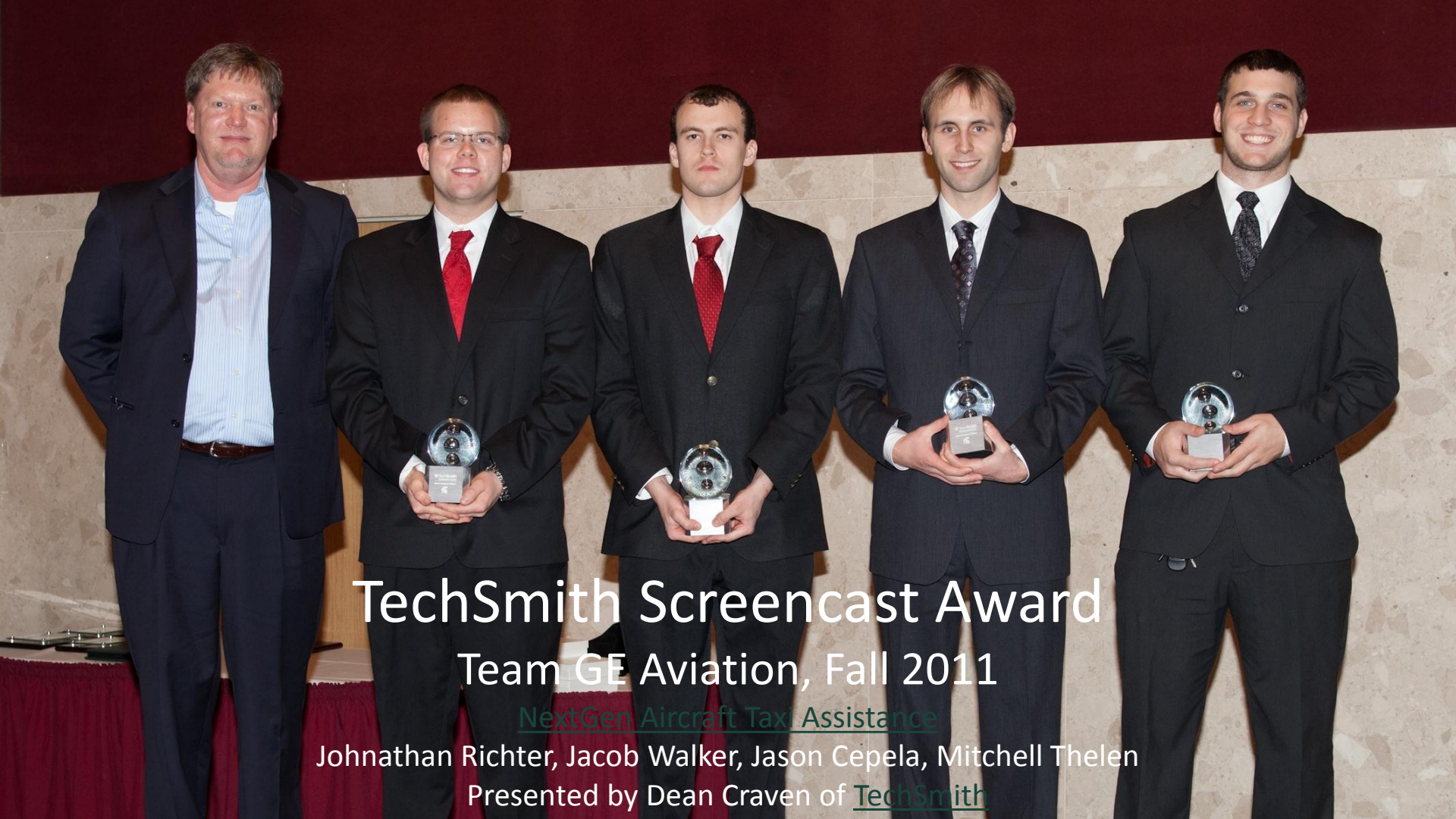
Chrysler Praxis Award

Team Motorola Mobility, Fall 2011

Synchronized Program Content Delivery

Paul J. Detkowski, Tareq Musleh, Timothy Belcher

Presented by Karen Wrobel of Chrysler




TechSmith Screencast Award

Team GE Aviation, Fall 2011

[NextGen Aircraft Taxi Assistance](#)

Johnathan Richter, Jacob Walker, Jason Cépela, Mitchell Thelen

Presented by Dean Craven of [TechSmith](#)



Urban Science Sigma Award

Team Ford, Fall 2011

[Ford Qwikboard](#)

William S. White Jr., Danh Tran, Jin Hou, Luke Davis

Presented by Greg Davidson and Matt Bejin of [Urban Science](#)

MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Design Day Award Winners

April 29, 2011



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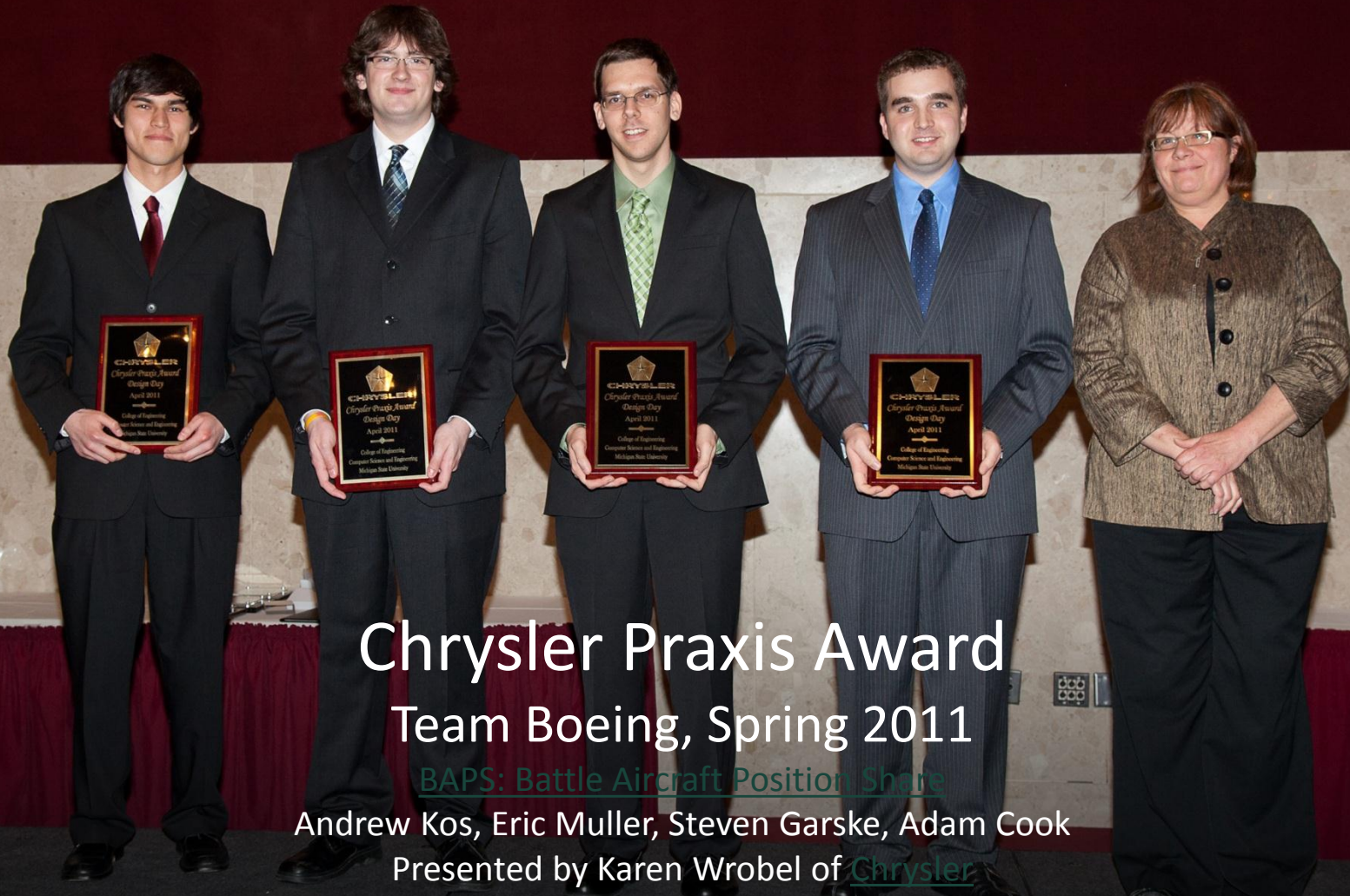
Auto-Owners Exhibition Award

Team Raytheon, Spring 2011

Dynamic Spectrum Access for Network Radios

Matt Bowser, James Voss, William Bonner, Srinivasa Settaluri

Presented by Scott Lake and Bob Buchanan of *Auto-Owners Insurance*



Chrysler Praxis Award

Team Boeing, Spring 2011

BAPS: Battle Aircraft Position Share

Andrew Kos, Eric Muller, Steven Garske, Adam Cook

Presented by Karen Wrobel of Chrysler



TechSmith Screencast Award

Team Medtronic, Spring 2011

Cloud-Based Athletics Operations Center

Michael Holp, Evan Francis, Christopher Paterson, Caitlin Russ

Presented by Dean Craven of TechSmith



Urban Science Sigma Award

Team Sparrow, Spring 2011

[iSupport Center](#)

Ryan Hewitt, Dianna Kay, Brett McMillen, Maurice Wong

Presented by Randy Berlin of [Urban Science](#)

MICHIGAN STATE
UNIVERSITY

The Capstone Experience

Design Day Award Winners

December 10, 2010



*From Students...
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Auto-Owners Exhibition Award

Team Meijer, Fall 2010

[ITS Products and Services Request System](#)

Matt Packowski, Austin McCarty, Andrew Thielking

Presented by Scott Lake and Bob Buchanan of [Auto-Owners Insurance](#)



Chrysler Praxis Award

Team Motorola, Fall 2010

[Enhanced Program Guide for Mobile Devices](#)

Andrew Rossow, Drew Hanlon, Tim Aubel, Brian Cripe

Presented by Karen Wrobel of [Chrysler](#)



TechSmith Screencast Award

Team Medtronic, Fall 2010

[Medtronic Wellness Portal](#)

Zach Riggle, Joe Heldt, Chris Van Wiemeersch, Vu Bui

Presented by Dean Craven of [TechSmith](#)



Urban Science Sigma Award

Team GE Aviation, Fall 2010

[Super Synoptics](#)

Adam Breece, Shawn Henry Adams, Nick Rafalski

Presented by Randy Berlin of [Urban Science](#)

The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Spring 2012



*From Students...
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Auto-Owners Insurance

Life Home Car Business

The "No Problem" People®







meijer®

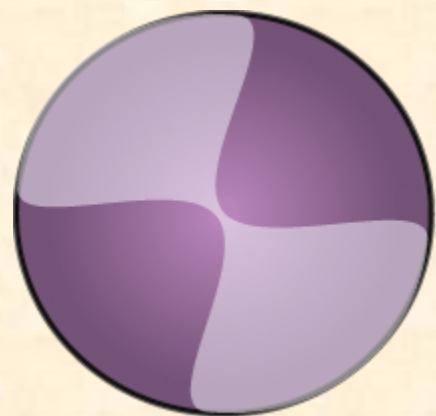


MOTOROLA



mozilla

Firefox[®]



PLEX
SYSTEMS

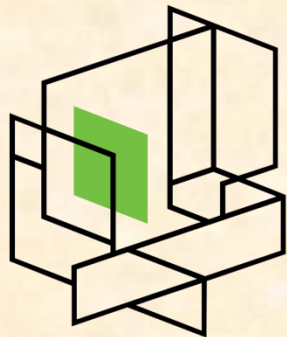
Raytheon

SPECTRUM HEALTH





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