From Students…
…to Professionals

Beta Presentation
Enhanced Content Authoring Services

The Capstone Experience

Team Motorola Mobility
Alex Boyd
Chris Goad
Rory Hool
Haohan Lin

Department of Computer Science and Engineering
Michigan State University
Spring 2011
Project Overview

• Develop “Content Authoring Tool” Web Application
  ▪ Allow content providers to upload secondary content and coordinate it with television programs

• Develop “CompleteTV” Mobile Application
  ▪ Create application for Android and iOS that displays secondary content while user watches television

• Develop Backend Services
  ▪ Store and manipulate data about secondary content, its associations with television programs, and mobile application users
“CompleteTV” - Mobile Application
Content Authoring Tool – Home View

**TV Programs**

- **Clean House**
  - The Fleming Family
- **ESPNEWS**
  - null
- **Miss Spider's Sunny Patch Friends**
  - Country Bug-in; A Star Fell on Sunny Patch
- **MythBusters**
  - Airplane on a Conveyor Belt
- **Olivia**
  - Olivia Packs Up; Olivia Is Invited to Dinner
  - Olivia Paints a Mural; Olivia’s Day at the Office

**Broadcasting Station(s)**

- **Schaumburg - Comcast**
  - **START TIME**: Wed Sep 29 01:00:00 EDT 2010
  - **DURATION**: 01:00:00

**Complete TV Content**

- Red Wings Statistics
- MythBusters IMDB Page
- Red Wings Statistics
- Red Wings Statistics
- Jamie Hyneman Wikipedia Article
- Red Wings Statistics
- MythBusters - Crash and Burn Video
- MythBusters IMDB Page
- MythBusters - Crash and Burn Video
- Adam Savage Wikipedia Article
- MythBusters Interview - CBS News
- MythBusters Wikipedia Article
- IMDB IMD02
Content Authoring Tool – Timeline View

**Clean House**
*The Fleming Family*

The crew embarks on a rescue mission when possessions fracture a family.

- **Show Type:** Series
- **Series ID:** EP00802865
- **Program ID:** EP008028650114
- **Original Air Date:** 1227062800000

**Table View**

<table>
<thead>
<tr>
<th>Time</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>01:30:00</td>
<td>0.33213645</td>
</tr>
<tr>
<td>00:15:00</td>
<td>0.04:06</td>
</tr>
<tr>
<td>03:00:00</td>
<td>00:41:16</td>
</tr>
</tbody>
</table>

**Timeline View**

- **Red Wings Statistics**
  - Time: 00:37:19
  - Duration: 00:00:00
  - Type: Sports Statistics
What’s left to do?

• Continue Testing & Fix Found Bugs
• Evaluate CAT And CompleteTV Applications For Stylistic Improvements
• Complete Project Video
• Complete User Manuals
  ▪ CompleteTV Manual
  ▪ Content Authoring Tool Manual
• Complete Administrator Manual