

MICHIGAN STATE
UNIVERSITY

Beta Presentation

Enhanced Program Guides for Mobile Devices

The Capstone Experience

Team Motorola

Tim Aubel

Brian Cripe

Drew Hanlon

Andrew Rossow

Department of Computer Science and Engineering

Michigan State University

Fall 2010



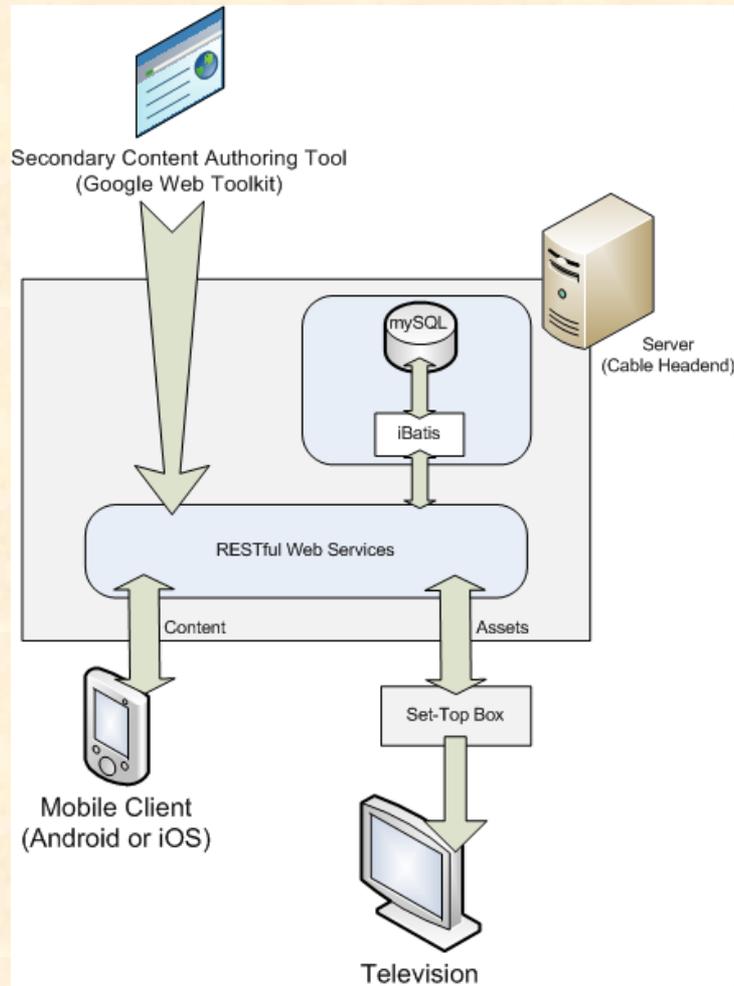
*From Students...
...to Professionals*

Project Overview

- Provide Additional Television Content
 - Extend brand names beyond living room
 - Enhance user experience
- Manage Secondary Content Lifecycle
 - Create new content and new types of content
 - Associate content to specific times within a show
- Mobile User Application
 - Non-intrusive
 - User friendly
 - Multiple platforms
 - For use with live or recorded content



System Architecture



Integrated Existing EPG Service

LineupMapStation IL12660:X/10142

11:04

Admin Page
Lineups

LineupMapStation IL12660:X/10142

station_id: 10142
lineup_id: IL12660:X
call_sign: CNN
station_name: Cable News Network
fcc_channel_num:
affiliate: Satellite
icon_src_uri:
icon_width:
icon_height:
channel_id: 36
channel_minor:
virtual_channel_num:
multicast:
frequency:
pid:
valid_start_date: 2000-11-02
valid_end_date:
lineupmap_uri: </WebServices/tod/v1/lineup/IL12660:X/station/10142/lineupmap>
lineupmap_station_uri: </WebServices/tod/v1/lineup/IL12660:X/station/10142>
lineup_uri: </WebServices/tod/v1/lineup/IL12660:X>
on_air_ranges_uri: </WebServices/tod/v1/lineup/IL12660:X/station/10142/onairranges>
assets_uri: </WebServices/tod/v1/lineup/IL12660:X/station/10142/asset/date>
epg_uri: </WebServices/tod/v1/lineup/IL12660:X/station/10142/epg/date>
program_uri: </WebServices/tod/v1/lineup/IL12660:X/station/10142/program/date>

© 2007-2010 Motorola (About)



Content Authoring Tool

Content Authoring Tool

Asset Selection

Create Type Create Content Create Template

Search Search

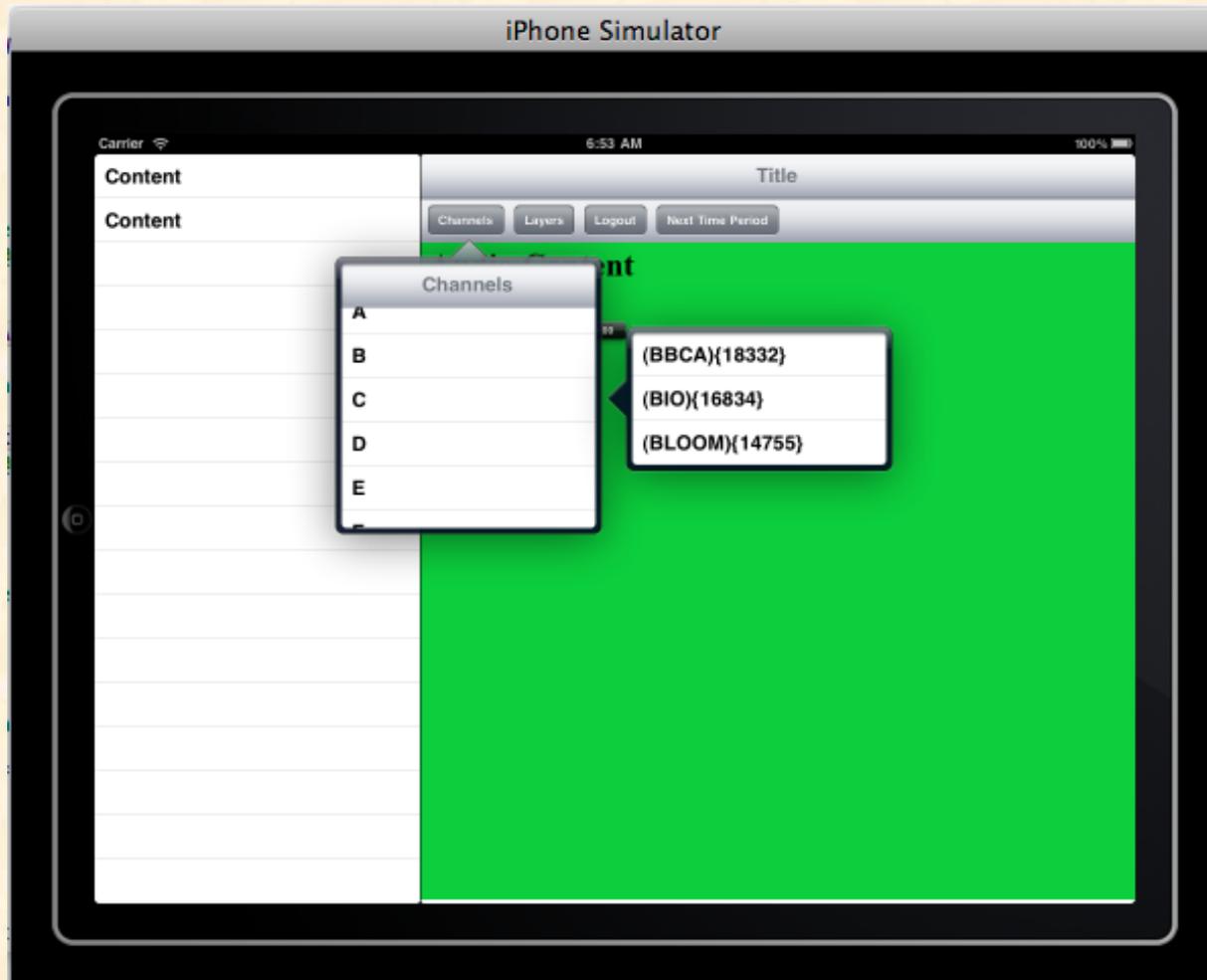
Content:

Title:

<input type="button" value="Remove"/>	Attribute #0	<input type="text" value="Name"/>	Heading <input type="button" value="v"/>
<input type="button" value="Remove"/>	Attribute #1	<input type="text" value="Hometown"/>	Heading <input type="button" value="v"/>
<input type="button" value="Remove"/>	Attribute #2	<input type="text" value="Information"/>	Paragraph <input type="button" value="v"/>
<input type="button" value="Remove"/>	Attribute #3	<input type="text" value="Profile Picture"/>	Image <input type="button" value="v"/>
<input type="button" value="Remove"/>	Attribute #4	<input type="text" value="Interview"/>	Video <input type="button" value="v"/>



Mobile Device Application



What's left to do?

- Content Authoring Tool UI
- Filter content based on time and type in mobile application
- Make mobile application UI more visually appealing
- Registration of mobile client to a Set-Top Box
- Merging of Templates and Content

