

MICHIGAN STATE
UNIVERSITY

Alpha Presentation

Synchronized Program Content Delivery

The Capstone Experience

Team Motorola Mobility

Timothy Belcher

Paul Detkowski

Tareq Musleh

Department of Computer Science and Engineering
Michigan State University

Fall 2011



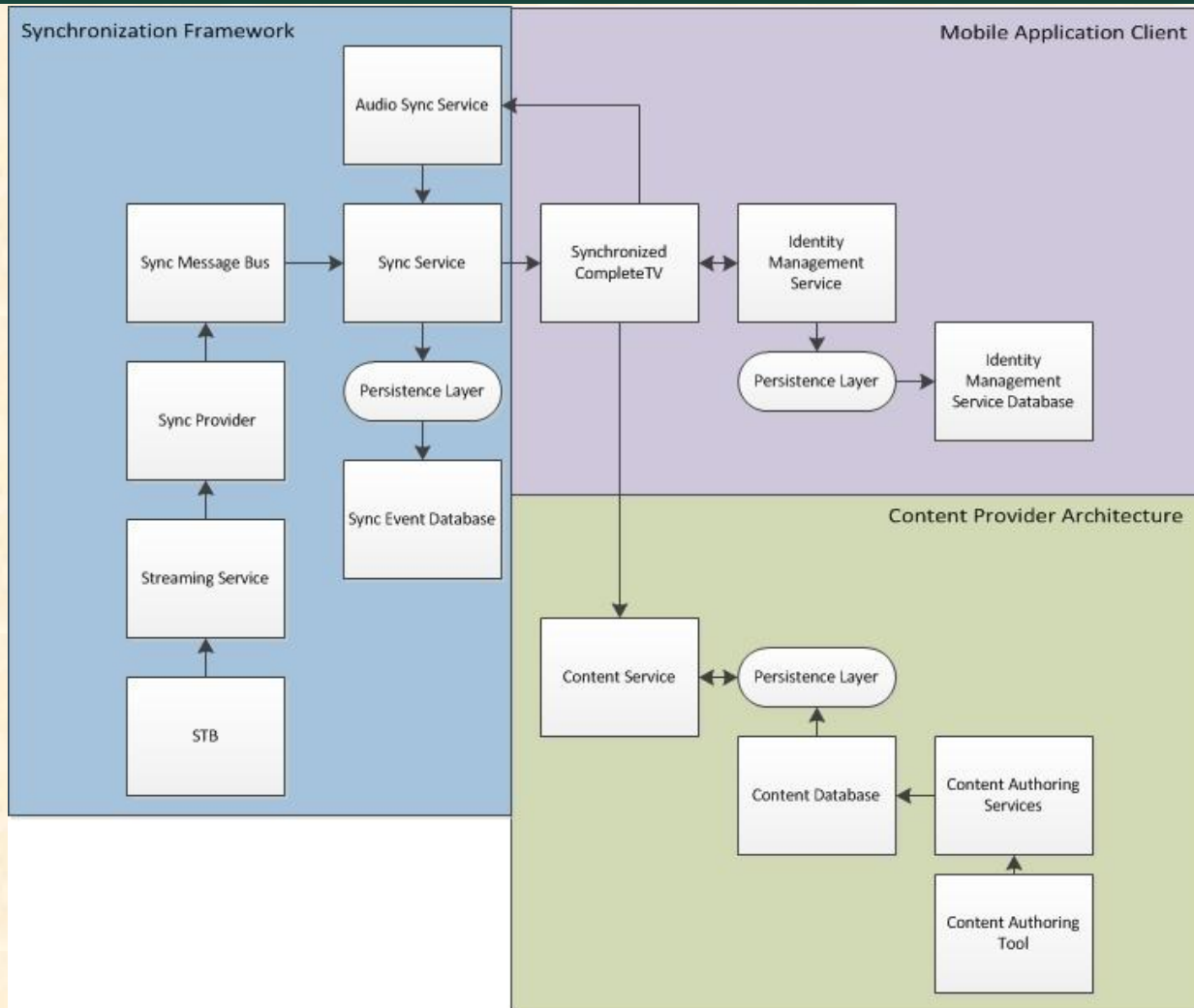
*From Students...
...to Professionals*

Project Overview

- Develop Synchronized Program Content Delivery Framework
 - Synchronize what the user is viewing on their television with appropriate secondary content on mobile device
- Develop Audio Sync Service
 - User can record sample audio footprint of a program, and the sync service will identify the program and sync
- Develop Synchronized Complete TV mobile app
 - Smooth interface for user preferences
- Develop Set Top Box User Interface
 - Similar to a program guide



System Architecture



Set Top Box Program Guide

Program Guide

4:24PM

SUN 10/16	4:00	4:30	5:00
1 FOX	Home Improvement	Everybody Loves Raymond	The Simpsons
2 TBS	Everybody Loves Raymond	Everybody Loves Raymond	Everybody Loves Raymond
3 CN	The Looney Tunes Show	Looney Tunes	The Simpsons

Home Improvement

30MIN LEFT

"The Son Also Mooches"- Tim worries that his mother will lose her investment in his brother's risky business venture; Jill gets glasses.



Content Page

Select Episode Please Select an Episode

Logged in as: belchert
Filter: All ...

Looney Tunes

Nevermind! <http://t.co/HrtwvIOK>

4pm TODAY! WE ARE THE IN CROWD perform at Looney Tunes! Come on down! Plenty of wristbands still available! <http://t.co/DPHmfgV7>

Dont forget TOMORROW we have WE ARE THE IN CROWD coming to the store!! <http://t.co/cqac3PXR>

We are very excited to announce that Brookvale Records & Enjoy the Ride Records will be releasing some amazing... <http://t.co/5rZpGdDY>

HUGE ANNOUNCEMENT COMING!!!!

311 - Grassroots on Vinyl for first time ever! <http://t.co/GGKEpGgC>

Looney Tunes

Looney Tunes

The Looney Tunes Show

Baby Looney Tunes

'Looney Tunes' Intro

The Looney Tunes Golden Collection: Vol. 1

Looney Tunes - Golden Collection

amazon

XFINITY TV - Comcast

android market

android market

Netflix

Currently Featuring:
The Looney Tunes Show

Currently Featuring:
The Looney Tunes Show



Mobile Program Guide

← Back Select

Select A Program

SUN 10/16	SUN 10/16	SUN 10/16	SUN 10/16
1 FOX	Home Improvement	Everybody Loves Raymond	The Simpsons
2 TBS	Everybody Loves Raymond	Everybody Loves Raymond	Everybody Loves Raymond
3 CN	The Looney Tunes Show	Looney Tunes	The Simpsons

The Looney Tunes Show
-21980290MIN LEFT
"The Foghorn Leghorn Story"- Foghorn Leghorn casts Daffy as himself in a movie about his life. In the mean time, Bugs and Yosemite Sam find a potentially expensive vase buried in the backyard.

Device Management Page

Device Management

Back Create Device Register Device

Tablet

Alias:

Sweet STB

Alias:



What's left to do?

- Audio Sync
- Syncing with Video on Demand
- Testing/Debugging
- Improve UI

