Integrating Multimedia

Objectives

This assignment is to build a prototype of a podcasting application. This podcasting application will not have to be a complete application, but it should be able to download audio from an internet URL and provide basic play and pause functionality. In addition, it should allow the user to choose from at least three different episodes of the podcast to play.

After completing the prototype of the podcast, the second part of the assignment to is to take a look at what your application is missing. For instance, if you were building this as a standalone app for something like the Department of Energy Direct Current podcast: (http://www.energy.gov/podcasts/direct-current-energygov-podcast) - what features would this application need to have?

1. Create a new Single View Project

2. Add the App Transport Security permission to the Info.plist to allow your application to download HTTP content from any server

3. Display buttons for at least three episodes of the podcast on the home screen

4. Create a segue between each button and the AV Player View Controller - name each segue something different (for instance, EpisodeOne)

5. Create an if...else block of code that passes the correct MP3 URL to the PlayAudioViewController, based on what segue identifier is used.

6. Add any graphic elements you think would make the app look good (colors, fonts, pictures)

7. Evaluate your prototype for the features it is missing - what would someone need to use this app as a standalone podcast player? For instance, this app won't download the list of the latest podcasts. Find at least 10 features you could add to the application.

8. Pick one of these features, and research how to add that feature to the application. Write a short plan (2-3 paragraphs) for what you and your team would need to learn to add that feature. Try and find any supporting articles, tutorials, or documentation.

Prerequisites

You will need to have the following before you start:

- A working copy of XCode

Grading Evaluation

Name	Points	Description
Working Project	10	Submitted a working XCode app project that compiles.
App Transport Security	5	App can play MP3 files from the internet over HTTP.
Three Podcast Episode Buttons	10	There are at least three buttons for podcast episodes on the main screen.
Multiple Segues	10	The app has multiple segues to one AVPlayerViewController, with unique names.
Working Audio Player	10	Each button will play a unique podcast episode when the application runs.
App Design	10	This is subjective, based on whether or not it appears there is a coherent design for the app, for instance that the buttons match in size, and the margins line up.
Missing Features	30	There are at least ten missing features listed, each with a short (2-3 sentence) description.
Feature Implementation Plan	15	There is a well though out plan for how to add one missing feature to the application.
	100	