

In this application we will see how to display a web page and play audio and video files in a project. We will create this application using Tabbed Application Template.

Step 1: Create a “Tabbed Application” using the template. Give the application name “VideoPlay.” Don’t use the Storyboard. Use ARC.

Step 2: Xcode automatically creates the directory structure and adds essential frameworks to it. You can explore the directory structure to check out the content of the directory.

Step 3: Expand classes and notice Interface Builder created the FirstViewController class for you. Notice the template generated a separate FirstViewController.xib.

Step 4: Add AudioToolbox.framework, AVFoundation.framework and MediaPlayer.Framework in the “Build Phases” tab.

Step 5: You need to add a music and video file in the project folder. Give the name of the music file “music.mp3” and the video should be labeled, “video.mov.”

Step 7: In the FirstViewController.h file we have created instance of UIWebView class. Drag a WebView object from the library and place in the window. Wire the WebView to the FirstViewController.h file and call it “webDisplay.” The result looks like this:

```
#import <UIKit/UIKit.h>
@interface FirstViewController : UIViewController
@property (strong, nonatomic) IBOutlet UIWebView *webDisplay;
@end
```

Step 8: Open the FirstViewController.m file and make the following changes in the file.

```
- (void)viewDidLoad
{
    [super viewDidLoad];
    NSString *urlAddress = @"http://www.google.com";
    NSURL *url = [NSURL URLWithString:urlAddress];
    NSURLRequest *requestObj = [NSURLRequest requestWithURL:url];
    [webDisplay loadRequest:requestObj];
}
```

Run the program see what happens.

Optionally, copy some tab images for the first and second tab bar to the

project folder and change the code to load the new images. The changed code looks like this:

Note: Make sure images are 30 x 30 in size. Use Preview to adjust the size.

Inside of FirstViewController:

```
- (id)initWithNibName:(NSString *)nibNameOrNil bundle:(NSBundle *)nibBundleOrNil
{
    self = [super initWithNibName:nibNameOrNil bundle:nibBundleOrNil];
    if (self) {
        self.title = NSLocalizedString(@"WebView", @"WebView");
        self.tabBarItem.image = [UIImage imageNamed:@"web"];
    }
    return self;
}
```

Inside of SecondViewController:

```
- (id)initWithNibName:(NSString *)nibNameOrNil bundle:(NSBundle *)nibBundleOrNil
{
    self = [super initWithNibName:nibNameOrNil bundle:nibBundleOrNil];
    if (self) {
        self.title = NSLocalizedString(@"AudioVideo", @"AudioVideo");
        self.tabBarItem.image = [UIImage imageNamed:@"audio"];
    }
    return self;
}
```

Step 9: In the SecondViewController.h file, add lines to import AudioToolbox, MediaPlayer and AVFoundation framework. Define a button and an IBAction method to start and stop the audio file and the video file. Also add an "exit" button.

Wire the button "Touch Up Inside" actions to SecondViewController.h file. The results look like this:

```
#import <UIKit/UIKit.h>
#import <AudioToolbox/AudioToolbox.h>
#import <AVFoundation/AVFoundation.h>
#import <MediaPlayer/MediaPlayer.h>
```

```
@interface SecondViewController : UIViewController <AVAudioPlayerDelegate>
{
    AVAudioPlayer *player;
```

```

        MPMoviePlayerController *moviePlayer;
    }

    - (IBAction)audioStart:(UIButton *)sender;
    - (IBAction)audioStop:(UIButton *)sender;
    - (IBAction)videoStart:(UIButton *)sender;
    - (IBAction)videoStop:(UIButton *)sender;
    - (IBAction)exitApp:(UIButton *)sender;

@end

```

Step 10: Open ViewController.m and make the following changes to the IBAction items:

```

- (IBAction)audioStart:(UIButton *)sender {
    NSURL *url = [NSURL URLWithString:[NSString stringWithFormat:@"%s%/
music.mp3", [[NSBundle mainBundle] resourcePath]]];

    NSError *error;
    player = [[AVAudioPlayer alloc] initWithContentsOfURL:url
error:&error];
    player.numberOfLoops = -1;

    if (player == nil)
        NSLog([error description]);
    else
        [player play];}

- (IBAction)audioStop:(UIButton *)sender {
    [player stop];
}

- (IBAction)videoStart:(UIButton *)sender {
    NSString *urlStr = [[NSBundle mainBundle] pathForResource:@"video.mov"
ofType:nil];
    NSURL *url = [NSURL URLWithString:urlStr];
    moviePlayer = [[MPMoviePlayerController alloc] initWithContentURL:url];
    [self.view addSubview:moviePlayer.view];
    moviePlayer.view.frame = CGRectMake(0, 0, 320, 320);
    [moviePlayer play];
}

- (IBAction)videoStop:(UIButton *)sender {
    [moviePlayer stop];
}

```

```
- (IBAction)exitApp:(UIButton *)sender {  
    exit(0);  
}
```

Step 11: Compile and run!