Web Apps Development

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Part II - Advanced Features
Media API

Homework Feedback

Media API

Media API - Introduction

HTML5 introduces built-in media support via the <audio> and <video> elements, offering the ability to easily embed media into HTML documents.

Media API - Basics

```html
<video src="myVideo.mp4"></video>

<audio src="myAudio.mp3"></audio>
```

```javascript
var videoElement = document.createElement("video");
        videoElement.src = "myVideo.mp4"

var audioElement = document.createElement("audio");
        audioElement.src = "myAudio.mp3"
```

Media API - Main Methods

```javascript
mediaElement.play();
mediaElement.pause();
mediaElement.load();  // reloads media
mediaElement.currentTime = 5;  // in seconds
mediaElement.playbackRate = 1.0;  // -1.0 Backwards , 1.0 Normal , 2.0 Double Speed
mediaElement.volume = 1.0; // Between 0.0 and 1.0
mediaElement.muted = false;
mediaElement.autoplay = false;
mediaElement.controls = true;
```

Media API - Main Events

```
mediaElement.addEventListener("play", function(){});
mediaElement.addEventListener("playing", function(){});
mediaElement.addEventListener("pause", function(){});
mediaElement.addEventListener("ended", function(){});
mediaElement.addEventListener("progress", function(){});
mediaElement.addEventListener("timeupdate", function(){});
mediaElement.addEventListener("volumechange", function(){});
mediaElement.addEventListener("seeking", function(){});
mediaElement.addEventListener("seeked", function(){});
```

http://www.w3.org/2010/05/video/mediaevents.html

Media API - Event Handler Usage Example

```
var mediaStatus = null;

function updateStatus(e) {
    mediaStatus = e.type;
}

mediaElement.addEventListener("play", updateStatus);
mediaElement.addEventListener("playing", updateStatus);
mediaElement.addEventListener("pause", updateStatus);
mediaElement.addEventListener("ended", updateStatus);
```

Exercise

Implementing audio and video!

Download project from

Homework - MP3 Player

1. Given the project at https://github.com/leonardomra/web-apps-dev-course/tree/master/PE06-Media/html/homework;

2. Implement the functionalities described at https://github.com/leonardomra/web-apps-dev-course/blob/master/PE06-Media/html/homework/javascript/main.js;

3. Insert the player inside your Dashboard.

Final Project

Deadline 15.02.2016