

# Web Service Radio Station

**Dennis McMeekan  
&  
Brandon Ahrens**

**Tech Tycoons - #9**  
CS 425: Final Project



# Problem Statement



**Provide an in-depth, but entertaining, project using a lamp server to build a web radio application that holds a great basis to learn and further develop versatile LAMP technologies.**

- ◊ **Uses each aspect of LAMP**
  - Linux
  - Apache
  - MySQL
  - PHP
- ◊ **Capability to expand and improve beyond this class**
- ◊ **Resume Builder**
- ◊ **Partner Development**
- ◊ **Source Control**

# Challenges

- ⬡ **Partner Development**
- ⬡ **Time** 🕒
- ⬡ **Combining technologies**
  - AngularJS w/ HTML5
  - PHP w/ JavaScript



# Implementation

- ⬡ **Angular Template**
  - ⬡ **HTML5 and JavaScript**
- ⬡ **MySQL Build**
- ⬡ **Implementation of Radio Player**
  - ⬡ **JavaScript**
- ⬡ **Deploy to Server -> Webpage**

# Architecture

## LAMP Technologies

Through deployment using a LAMP server (Apache & Linux), building a MySQL database, and pulling that data with PHP.



## HTML5

1 Formatting the technologies used and providing a great user experience

## AngularJS

3 Basis for development, provides a fantastic web application build

# Technologies Used



- |                  |    |                          |
|------------------|----|--------------------------|
| ⬡ <b>HTML5</b>   | -> | ⬡ <b>Web Application</b> |
| ⬡ <b>SVG</b>     | -> | ⬡ <b>Graphics</b>        |
| ⬡ <b>Apache</b>  | -> | ⬡ <b>Deployment</b>      |
| ⬡ <b>MySQL</b>   | -> | ⬡ <b>Database</b>        |
| ⬡ <b>PHP</b>     | -> | ⬡ <b>Pulling Data</b>    |
| ⬡ <b>Angular</b> | -> | ⬡ <b>Formatting</b>      |
| ⬡ <b>GitHub</b>  | -> | ⬡ <b>Source Control</b>  |



# Future Work

- **Further Implementation**
  - **Outside of School**
- **Larger Database of Songs**
- **Better User Accessibility**
- **Global Deployment**
- **GitHub Pages?**



# What We Learned

**Workplace  
Development**



**Server-Side Web  
Development**



**Enterprise Level  
Possibilities**





# Preview

