Providing Forecasts of Dangerous Thunderstorms to Operators of Outdoor Concert Venues

**Data**

The Foursquare API will be used to look up the location of outdoor concert venues across the United States. The locations will be plotted on a map.

For weather forecast information, the AccuWeather API will be used to look up 10-day weather forecasts for each outdoor concert venue. The format is JSON and will be queried by U.S. postal code. Below is a screen shot of what the AccuWeather API looks like.

![A picture containing screenshot

Description automatically generated]()

Locations of outdoor concert venues will be color coded on a map. The following colors and what they mean are as follows:

Green: No thunderstorms in the forecast for the next 10 days

Yellow: Thunderstorms are in the forecast on 1 or more days over the next 10 days but are not forecast to be strong enough to produce high wind, hail or tornadoes.

Red: Thunderstorms are in the forecast on 1 or more days over the next 10 days and on at least one day could be strong enough to product high wind, hail or tornadoes.

The user can click on the concert venue and see which days thunderstorms are in the forecast.