WTC!? Where's The Concert?

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Definition Statement

A local concert locator for people searching for specific artists.

Full Feature List

- User's location can be detected by the page, or they can enter it in a field.
- Searches result in upcoming concerts being pinned on the map
  - The pins have more information on click
  - A formatted print out list of each concert will be displayed under the map.
- Links to the concert page on Songkick exist on the dropped pins
- Artist information displayed on the formatted list
- Pins are wiped on every search
- Web storage to store user location
- Users can filter by:
  - Distance from specified location
  - Artist
  - Festival or concert

Architecture: ES6 Classes with Bootstrap & Vue. Songkick and Google Map APIs.

Design & Technical Decisions:

- We made the map the full screen size to allow for a minimalistic UI and a friendlier user experience.
- We removed the bookmark option as we realized that in real-world scenario's user's would rarely use that option and instead go straight to Songkick to get tickets instead of bookmarking it.
- We added in differentiation between concerts and festivals so user's could search through a specific type of event.
  - If Songkick ever expands into different event types, this also makes it very simple to expand our list of choices.
- Some of the input was handled through vue components to satisfy the component requirement as well as giving some flexibility to expand on text-based filters if necessary.
- We added in functionality to have markers display multiple artists if they were performing at the same venue but on different dates.

- We took out the feature to choose a date range, since the effort to pick specific dates was both time-consuming and would regularly come up with no results when combined with our other filters.
    - We also saw the site's purpose as more of a quick check for a group of friends on nearby, soon to start concerts versus a service to find a set of concerts in a carefully selected set of dates.

Team Member Grades:

Sanketh Bhat: **100%**
Worked on the Vue components, researched range finder for global coordinates, and set up documentation structure.

William Montgomery: **100%**
Worked on most of the frontend visuals and user interaction.

Extras:
Coordinate distance calculation: https://www.movable-type.co.uk/scripts/latlong.html

Songkick's API returns result in groups of 50 in "pages". So we implemented an algorithm to appropriately decide when to send another query to get another 50 results. This would fix cases where asking for nearby festivals would only give 1 result since the other 49 were normal concerts.