

PROJECT SPECIFICATION

Neighborhood Map

Interface Design

| CRITERIA | MEETS SPECIFICATIONS |
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| Responsiveness | All application components render on-screen in a responsive manner. |
| Usability | All application components are usable across modern desktop, tablet, and phone browsers. |

App Functionality

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| Filter Locations | Includes a text input field or dropdown menu that filters the map markers and list items to locations matching the text input or selection. Filter function runs error-free. |
| List View | <p>A list-view of location names is provided which displays all locations by default, and displays the filtered subset of locations when a filter is applied.</p> <p>Clicking a location on the list displays unique information about the location, and animates its associated map marker (e.g. bouncing, color change.)</p> <p>List functionality is responsive and runs error free.</p> |
| Map and Markers | <p>Map displays all location markers by default, and displays the filtered subset of location markers when a filter is applied.</p> <p>Clicking a marker displays unique information about a location in either an <code>infoWindow</code> or <code>DOM</code> element.</p> <p>Markers should animate when clicked (e.g. bouncing, color change.)</p> <p>Any additional custom functionality provided in the app functions error-free.</p> |

App Architecture

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Proper Use of `Knockout`

Code is properly separated based upon `Knockout` best practices (follow an `MVVM` pattern, avoid updating the `DOM` manually with `jQuery` or `JS`, use `observables` rather than forcing refreshes manually, etc). `Knockout` should not be used to handle the `Google Map API`.

There are at least 5 locations in the model. These may be hard-coded or retrieved from a data API.

Asynchronous Data Usage

| CRITERIA | MEETS SPECIFICATIONS |
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| Asynchronous API Requests | <p>Application utilizes the <code>Google Maps API</code> and at least one non-Google third-party <code>API</code>. Refer to this documentation</p> <p>All data requests are retrieved in an asynchronous manner.</p> |
| Error Handling | <p>Data requests that fail are handled gracefully using common fallback techniques (i.e. <code>AJAX</code> error or fail methods). 'Gracefully' means the user isn't left wondering why a component isn't working. If an <code>API</code> doesn't load there should be some visible indication on the page (an alert box is ok) that it didn't load. <i>Note:</i> You do not need to handle cases where the user goes offline.</p> |

Location Details Functionality

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| Additional Location Data | <p>Functionality providing additional data about a location is provided and sourced from a 3rd party API. Information can be provided either in the marker's <code>infoWindow</code>, or in an <code>HTML</code> element in the <code>DOM</code> (a sidebar, the list view, etc.)</p> <p>Provide attribution for the source of additional data. For example, if using Foursquare, indicate somewhere in your UI and in your README that you are using Foursquare data.</p> |
| Error Free | <p>Application runs without errors.</p> |
| Usability | <p>Functionality is presented in a usable and responsive manner.</p> |

Documentation

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| README | A <code>README</code> file is included detailing all steps required to successfully run the application. |
| Comments | Comments are present and effectively explain longer code procedures. |
| Code Quality | <p>Code is formatted with consistent, logical, and easy-to-read formatting as described in the Udacity JavaScript Style Guide.</p> <p>If build tools (such as Gulp or Grunt) are used, both source and production code are submitted in the same repository in separate directories. These directories are usually named <code>src</code> and <code>dist</code> respectively.</p> |

Suggestions to Make Your Project Stand Out!

- Add unique functionality beyond the minimum requirements (i.e. the ability to “favorite” a location, etc.).
- Incorporate a build process allowing for production quality, minified code, to be delivered to the client.
- Data persists when the app is closed and reopened, either through localStorage or an external database (e.g. Firebase).
- Include additional third-party data sources beyond the minimum required.
- Style different markers in different (and functionally-useful) ways, depending on the data set.
- Implement additional optimizations that improve the performance and user experience of the filter functionality (keyboard shortcuts, autocomplete functionality, filtering of multiple fields, etc).
- Integrate all application components into a cohesive and enjoyable user experience.

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