

## PROJECT SPECIFICATION

**Neighborhood Map (React)****Interface Design**

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

**Application Functionality**

CRITERIA	MEETS SPECIFICATIONS
Location Filter	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.

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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 somewhere on the page (modal, separate div, inside an infoWindow).</p> <p>Any additional custom functionality provided in the app functions error-free.</p>

## Asynchronous Data Usage

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Asynchronous API Requests	<p>Application utilizes the <code>Google Maps API</code> or another mapping system and at least one non-Google third-party <code>API</code>. Refer to <a href="#">this documentation</a></p> <p>All data requests are retrieved in an asynchronous manner using either the Fetch API or XMLHttpRequest.</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 that it didn't load.</p>

## Documentation

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README	<p>A <code>README</code> file is included detailing all steps required to successfully run the application.</p>
Comments	<p>Comments are present and effectively explain longer code procedures.</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, a modal, 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	Application runs without console errors.
Usability	Functionality is presented in a usable and responsive manner.

## Accessibility

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Focus	Focus is appropriately managed allowing users to noticeably tab through each of the important elements of the page. Modal or interstitial windows appropriately lock focus.

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Site elements are defined semantically	Elements on the page use the appropriate semantic elements. For those elements in which a semantic element is not available, appropriate <code>ARIA roles</code> are defined.
Accessible Images	All content-related images include appropriate alternate text that clearly describes the content of the image.

## Offline Use

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Service Worker	When available in the browser, the site uses a service worker to cache responses to requests for site assets. Visited pages are rendered when there is no network access.

## Application Architecture

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Proper Use of React	<p>React code follows a reasonable component structure.</p> <p>State control is managed appropriately: event handlers are passed as props to child components, and state is managed by parent component functions when appropriate.</p> <p>There are at least 5 locations in the model. These may be hard-coded or retrieved from a data API.</p> <p>There are no errors. There are no warnings that resulted from not following the best practices listed in the documentation, such as using <code>key</code> for list items. All code is functional and formatted properly.</p>