Project Description for CMA Demo

A tool for real estate agents to show potential clients similar to the client's property with respect to price, #bedrooms, baths, address, etc.

Tech Stack

- Reactjs + Redux+Node.js+pouchdb / rethinkdb

Use https React Static as framework
https://github.com/aws/aws-sdk-js
https://aws.amazon.com/sdk-for-node-js/

- Responsive application based on ReactJS, Flux, and React Static.
- API integration with HouseJunction and Google Maps. HouseJunction provides real estate property data such as number of bedrooms, bathrooms, long lats, price, charts, etc. Google Maps will plot the long lats on map.
- Host application on our Amazon AWS account

Progressive enhancement (article)(article)(article)

- Site is served over HTTPS
- Pages are responsive on tablets & mobile devices
- The start URL (at least) loads while offline (use service workers)
- Metadata provided for add to home screen (housing.com uses web app manifest file)
- Website needs to render fast. It should load within the first 4 seconds
- Each page has a URL

First Phase

- Will use code from various Kratelabs ReactJS examples, https://react.rocks/
- Responsive left and right column layout. iPad will be fixed in portrait mode, mobile phone fixed in portrait mode. See attached screens/templates and icons for mobile and ipad/laptop layouts.
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Screen 1

1. Default map displays location of user, using Google Geolocation
2. User enters address of property
3. Google Map responds by zooming into the address location
4. React reference example: https://kratelabs.addxy.com/#/
5. Right column displays Agent info, you can just the agent info on the screen

Screen 2

1. Map displays a map marker of entered property location

2. In right column info is pre-filled out with Zillow API property data of entered property
3. User can modify the property data as needed
4. Clicking on View Comps displays list of Zillow API property listings that are similar to the entered property details (price, # of bedrooms, etc), see below Screen 3
5. React reference example: http://istarkov.github.io/google-map-react/map/main/

Screen 3

1. Map displays markers reflecting Zillow API real estate properties within similar price range, etc of entered property
2. In right column displays list of property listings with similar property details
3. React reference example: http://istarkov.github.io/google-map-react/map/main/
4. Clicking on map marker located and highlights the property in the property list, see https://www.starbucks.com/store-locator?map=33.801388,-116.527868,12z for reference
5. Clicking on a property within the list launches the property details in the right column, use similar transition, see screen 4

Screen 4

6. The right column is replaced with property details, see https://www.starbucks.com/store-locator?map=33.801388,-116.527868,12z
7. Large photo of property is a slider, user scroll through via left/right arrow. We have to determine if Zillow API provides 5 property photos or more.
8. User can scroll down to view more property details
9. Clicking on the X in the property details displays the list again
10. The property price in the property details is highlighted in similar color to the one in the map which reflects Active (green) or Sold (black)

Screen 5

1. From Screen 4 in the left column, clicking on the Graph icon at top left activates a display of bar graphs with a vertical bar reflecting price of entered property. The graphs are displayed on an overlay over the map and reveal the minimum, median, and maxium prices of similar properties to the entered property. Zillow API offers a chart functionality that would produce these graphs otherwise a solution is needed
2. The right column now displays a visibility icon which allows the user to exclude any property from the graphical analysis. The analysis on the left reflects the exclusion of properties in real time.
3. As properties are excluded the vertical bar adjusts to reflect the new price

Screen 6

4. Clicking on the circular mini-thumbnail of the Agent displays their info in the right column
5. Clicking on the X displays the property list again

Components
https://facebook.github.io/react/
https://github.com/fullstackreact/google-maps-react
https://github.com/istarkov/google-map-react
Examples: https://react.rocks/tag/Map, https://kratelabs.addxy.com/#/
Frameworks:
https://hashnode.com/post/10-best-reactjs-ui-frameworks-for-rapid-prototyping-cit49tqx414z89c53equ4zc5k
http://www.gajotres.net/5-reactjs-application-frameworks-to-get-your-app-running-quickly/
Starbucks: https://www.starbucks.com/store-locator?map=33.801388,-116.527868,12z

Elements to draw from:

1) Side bar and growing markers: http://istarkov.github.io/google-map-react/map/main/
2) Map address zoom and map controls: https://kratelabs.addxy.com/#/11.8/33.6037/-117.886/0/0/app?material=1&orientation=1&search=newport+beach+&size=1&style=1&_k=6xb0xx
3) Sidebar transitions: http://www.motoparking.club/p/560bf1a8eee23e000b538cbb