Problem Specification – Causeway Coast & Glens Interactive Web Mapping (GIS)

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Problem Domain

* BeachSmart
* Tourism figures maybe

Addressing the Problem

* A

Proposed Product Features

* A

Proposed Interface Features

* A

Technology Considerations

* Front-End
  + HTML
  + CSS
    - Font
    - Logo
    - Graphical user interface

      Description automatically generated with low confidence
    - Main content
    - Graphical user interface, application

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    - Category placeholder images
    - Current colour palette for CCG site
      * Site palette
        + Jet: #333333ff
        + English-violet: #503250ff
        + English-violet-2: #6a4c6dff
        + Quinacridone-magenta: #85425cff
        + White: #ffffffff
        + Dark-cornflower-blue: #163982ff
        + Blue-sapphire: #195d70ff
      * Extras for hover or whole app. Harks to beach vibes.
        + Opal: #9bc4bcff
        + Aero-blue: #d3ffe9ff
        + Middle-blue: #8ddbe0ff

Chart, treemap chart

Description automatically generatedChart, treemap chart

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* + JS
  + React or React Native
    - A
  + Mapping APIs (JS)
    - Google Maps
      * Widely adopted by all browsers, small learning curve for most users
      * $300 free trial mode, then $200 monthly credit for Google maps platform - <https://developers.google.com/maps/billing-and-pricing/billing#monthly-credit>
      * More pricing details - <https://developers.google.com/maps/billing-and-pricing/pricing>
      * API keys - <https://developers.google.com/maps/documentation/javascript/get-api-key>
        + ^Check pricing per year for proposal. Need full rundown.
      * Likely *roadmap* map type – maybe that and satellite to switch for those who are exploring the coast
        + Could a feature make use of satellite? Like mountain treks. Be cool to link to Fitbit data to show aggregate routes or something
      * Look at language localisation – would be good to include different languages for tourists
      * Release channels – dictates how often the maps are updated <https://developers.google.com/maps/documentation/javascript/versions> - depends on what is updated, if not vital stuff could have it less often. If pins and events etc rely on it, go weekly.
      * URL parameters <https://developers.google.com/maps/documentation/javascript/url-params>
      * Best practices - <https://developers.google.com/maps/documentation/javascript/best-practices>
      * Map controls – use all of them probably
    - Open Map
    - Bing Maps
* Back-End
  + A

Framework Considerations

* Front-End
  + CSS
    - Framework – thinking Bootstrap. If it works with maps nicely.
    - Current CCG website has following link tags.
      * Bootstrap
      * A custom CSS stylesheet
  + JS
    - Text

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* Back-End
  + A

Project Plan (GANTT)

Notes

Diagram, map

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