A participatory Web Map App for the Walk the Yorke trail

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The Trail
User Centred Design

User
- Information about and from users
- Prototype evaluation

Usability
- Contextual cartographic design
- Implementation of functionality

Utility
- Needs into functionality
- Evaluation into required changes
The Project

• Users Needs

• Solutions made possible by recent developments

• The applicability and success of these solutions
Solution Demo

wty.joshgore.com.au

Walk the Yorke Trail

With more than 500 kilometres of continuous shared walking & cycling leisure trail, you can explore Yorke Peninsula’s coastline from Port Wakefield to Moonta Bay. With coastal trails & town walks, Walk the Yorke showcases Yorke Peninsula’s spectacular coastline, diverse coastal communities and environments unique to ‘Yorkes’. Choose from short walks or a day walk, or why not try a multi-day walk? The hero walks of Walk The Yorke are those recommended by the designers and developers of this 500km trail, and have some of the best scenery & walking experiences. Walkers can purchase detailed topographical maps of Walk The Yorke to help with planning their journey. The maps can be purchased as sectional maps or as a complete set of 10 from the Yorke Peninsula Visitor Centre.
PostGIS Database
```graphql
query MyQuery($id: Int!) {
  routes_by_pk(id: $id) {
    typeByType {
      name
    }
    short_name
    name
    route_multimedia {
      multimedia {
        name
        link
      }
    }
    description
  }
}
```

```
{
  "data": {
    "routes_by_pk": {
      "typeByType": {
        "name": "stage"
      },
      "short_name": "Stage 9",
      "name": "Stage 9: Foul Bay to Marion Bay",
      "route_multimedia": [
        {
          "multimedia": {
            "name": "demo image",
            "link": "/images/stage1.1.jpg"
          }
        }
      ],
      "description": "One of the most rewarding but challenging sections of the Walk The Yorke trail, from Foul Bay to Marion Bay it is a total of 25.3km in length, expected to take approximately 6 hours 20 minutes. Experienced walkers recommend allowing up to 10 hours to"
    }
  }
}
```
Tegola

An open source vector tile server written in Go, Tegola takes geospatial data and slices it into vector tiles that can be efficiently delivered to any client.

Get Started  Try it

http://tiles.wty.joshgore.com.au

```json
[[providers.layers]]
  name = "trail_stages"
  geometry_fieldname = "geom"
  id_fieldname = "id"
  sql = """"SELECT lines.id, ST_AsBinary(geom::geometry) AS geom, types.name AS use, routes.id AS route_id, routes.route_id as trail_id FROM lines
  JOIN line_type ON line_type.line_id = lines.id
  JOIN types ON types.id = line_type.type_id
  JOIN line_route ON line_route.line_id = lines.id
  JOIN routes ON line_route.route_id = routes.id
  WHERE routes.type = 1 AND geom::geometry && !BBOX!
"
```
onMouseMove={(evt: any) => {
  evt.target.getCanvas().style.cursor = 'pointer';
}}

onMouseLeave={(evt: any) => {
  evt.target.getCanvas().style.cursor = '';
}}

</WalkerYorkeClient/>

+ node_modules/
+ public/
  - [x]src/
    - components/
      Carousel.tsx
      Markdown.tsx
    - contexts/
      apollo-client.ts
      TrailContext.tsx
      TrailProvider.tsx
      UserContext.tsx
      UserProvider.tsx
    - data/
      - information/
        stages.graphql.json
        walktheyeorcoldcouncil_s
      - [x]pages/
    - [x]app/
      - comments/
        Comment.tsx
        CommentForm.tsx
        CommentThread.tsx
    - [x]map/

paint={
  'text-color': '#591a03',
  'text-halo-color': 'hsl(0, 91%, 100%)',
  'text-halo-width': 1,
  'text-opacity': [}
University of South Australia

Any questions?