USABILITY

Material-UI

[Logos of Netflix, Amazon, and NASA]
ACCESSIBILITY

Google Lighthouse

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INTEROPERABILITY
SCALABILITY

ADD NEW VIEWS
Thanks to React, this a trivial task.

ADD NEW GEOSPATIAL FORMATS
Support for standards like GeoJSON or KML in a very simple way.

Frontend

Backend
BACKEND: HANDLERS

POD

POD HANDLER

ROUTE HANDLER
MEDIA HANDLER
GROUP HANDLER
USERDATA HANDLER
BACKEND: PARSERS

PARSERS

PARSER GPX TO ROUTE

PARSER JSON-LD TO ROUTE

PARSER JSON-LD TO GROUP
BACKEND: CACHE

CACHE

GROUP CACHE
USER CACHE
ROUTES CACHE
MAIN FUNCTIONALITY: CREATE ROUTE

CREATE ROUTE WIZARD

DOMAIN ROUTE OBJECT

ROUTE HANDLER

POD HANDLER

get elevation

JAWG MAPS API

POD
Main Functionality: Import Route

1. User initiates the import process by uploading a route file.
2. The file is passed through import form parsers.
3. The parsers identify the file type as GPX or JSON/JSON-LD.
4. The relevant parser is selected (GPX or JSON/JSON-LD).
5. The parser processes the data and generates a route object.
6. The route object is passed to the domain route handler.
7. The handler processes the route object.
8. The processed route object is stored in the cache for future use.
9. The route handler then interacts with the pod handler to manage the pod.
MAIN FUNCTIONALITY: LIST ROUTES

POD

POD HANDLER -> JSON-LD PARSER -> DOMAIN ROUTE OBJECT

JAWG MAPS API

checks elevation

MAP

CACHE
TESTING
Testing

React Testing

End-To-End Testing
LOAD TESTS

Simultaneous: 100 users

Ramp-up: 200 users
FUTURE
Despite having an adaptable and responsive UI, a version with more specific features should be developed.

Right now a route can be created manually. But you don’t want to complete a form while running, do you?

Too many ideas... Too little time.
THANKS

Does anyone have any questions?

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