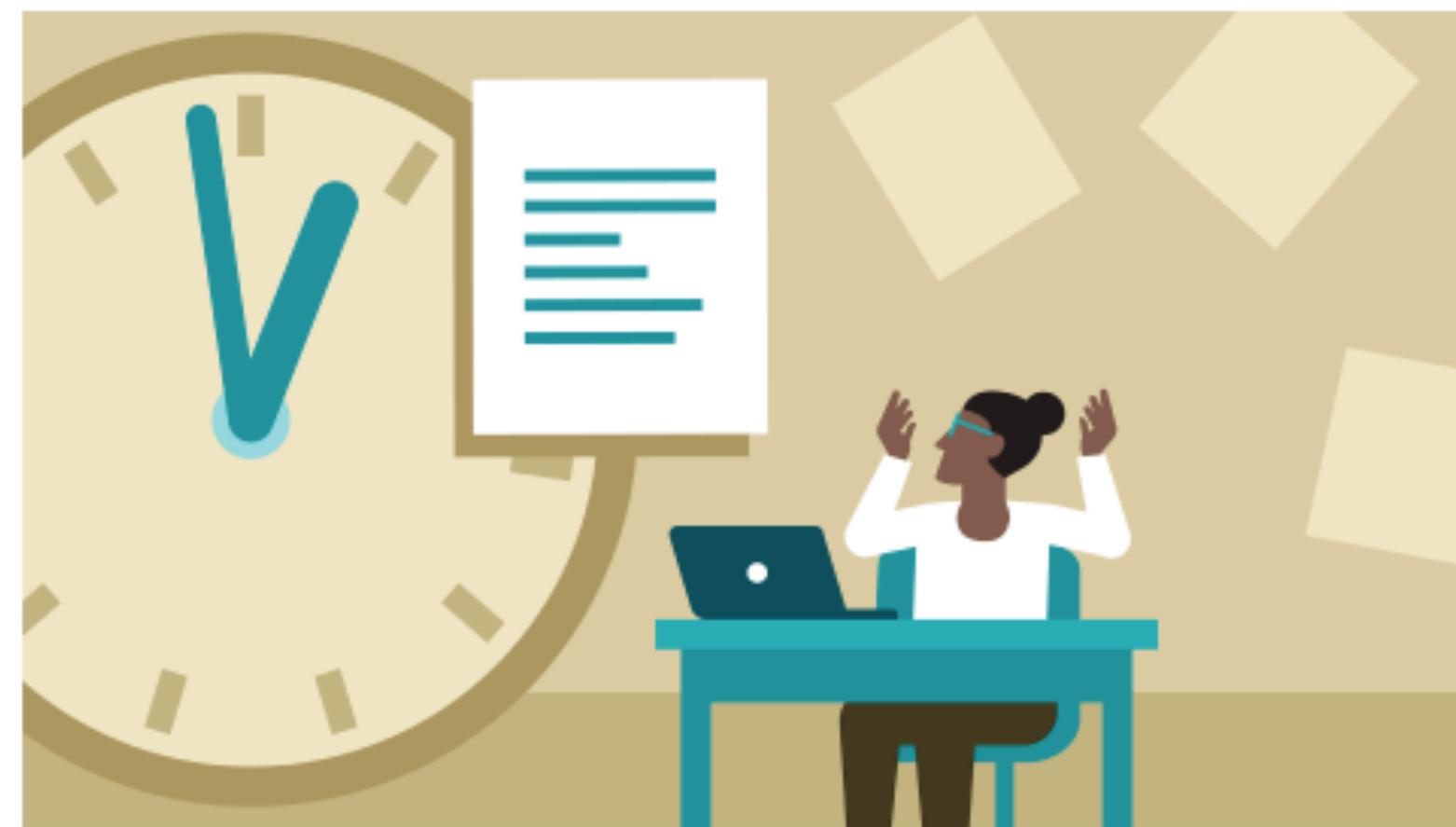
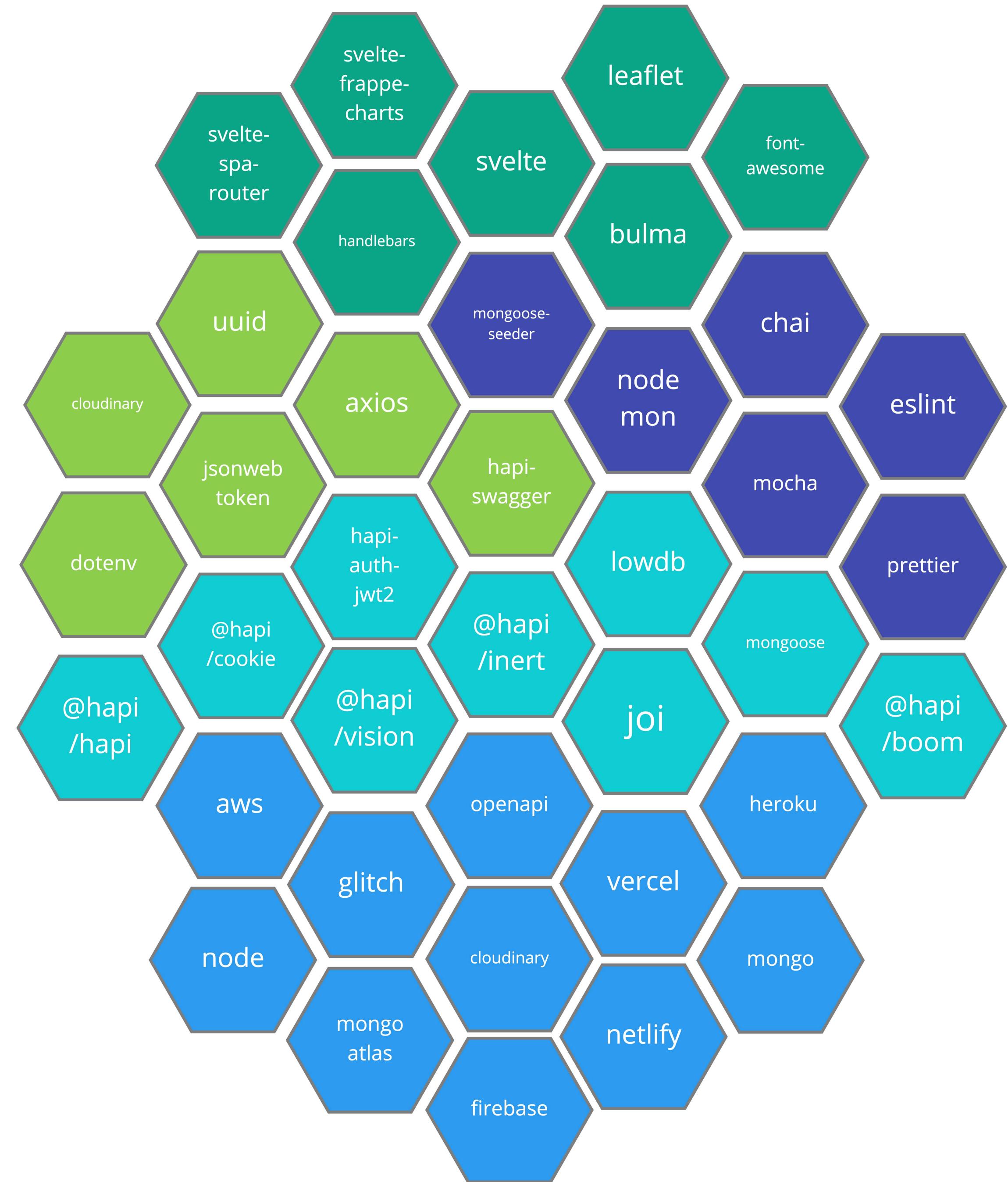


# Assignment 1 Specification

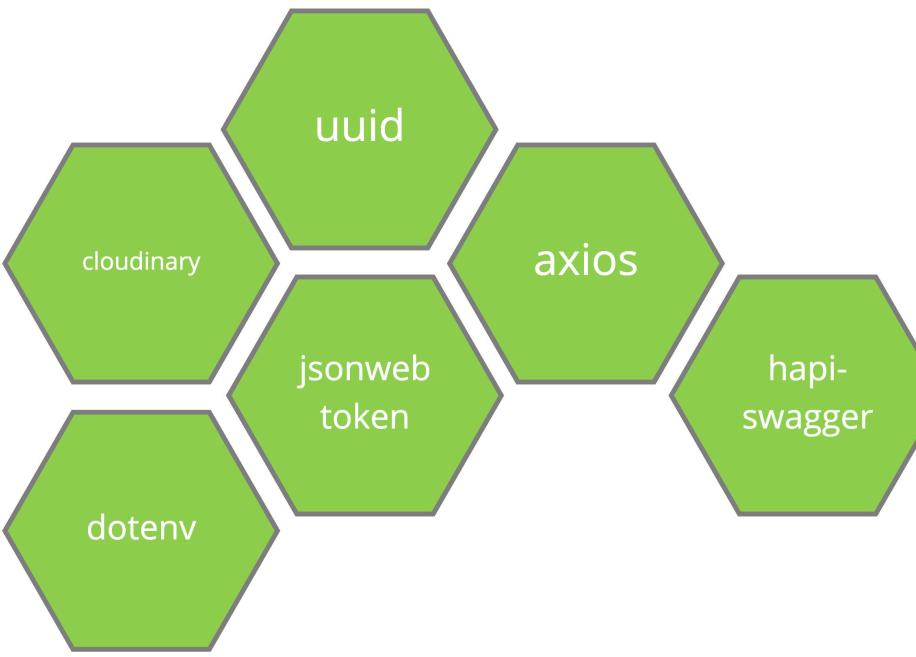


Concept, detail and grading  
spectrum for Assignment 1

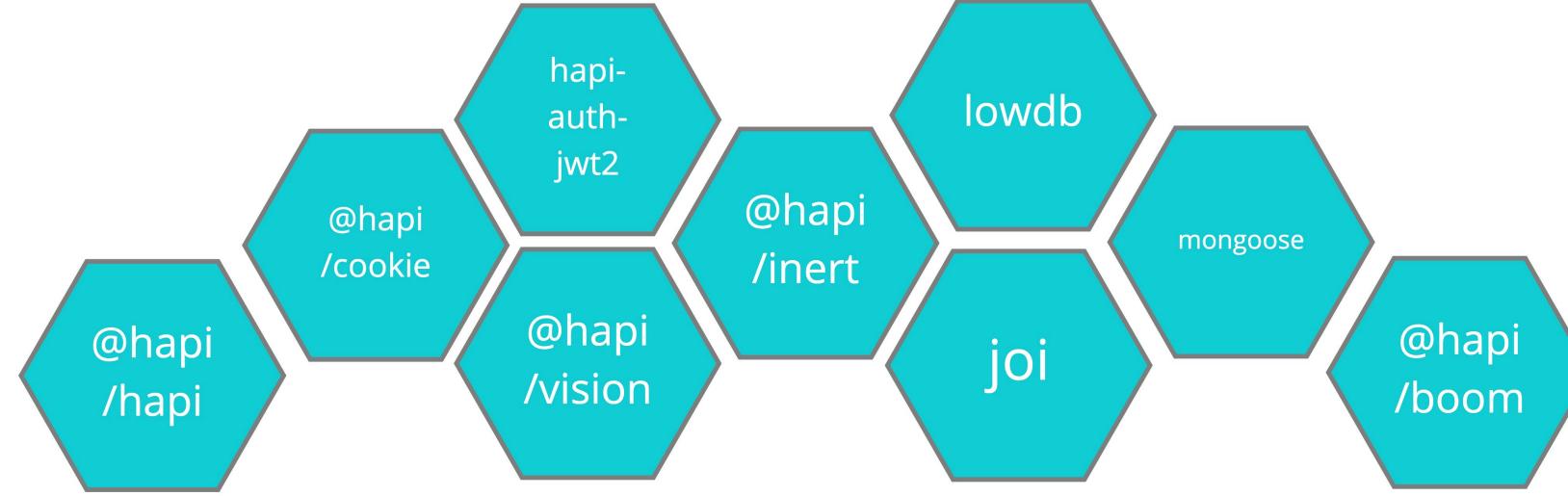
# Full Stack Components & Services



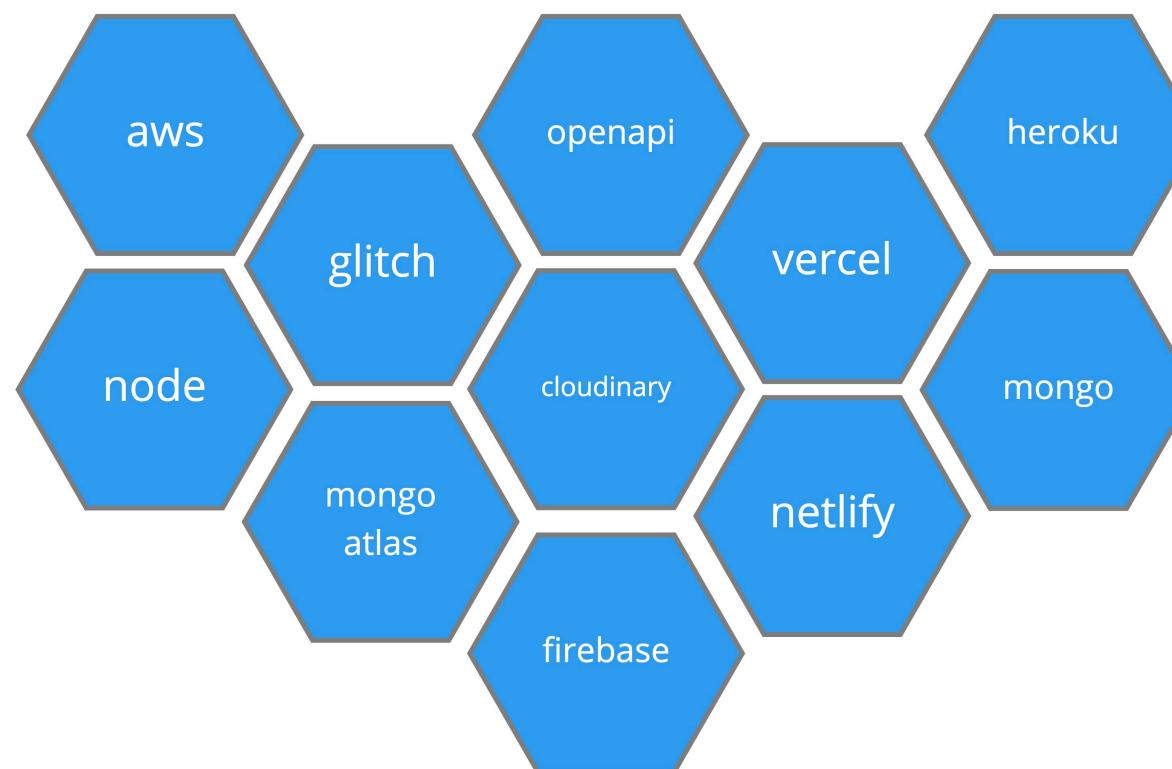
## Components



## Back End

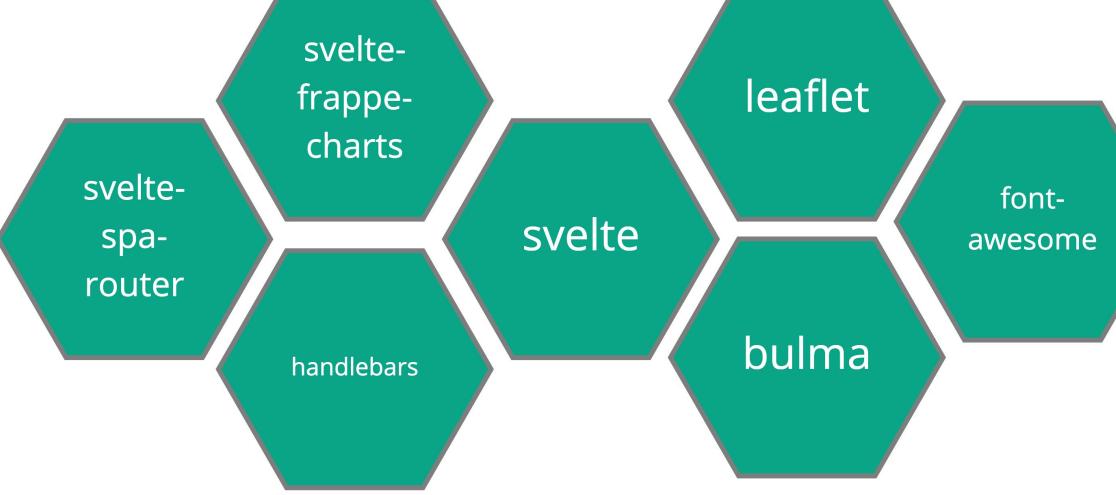
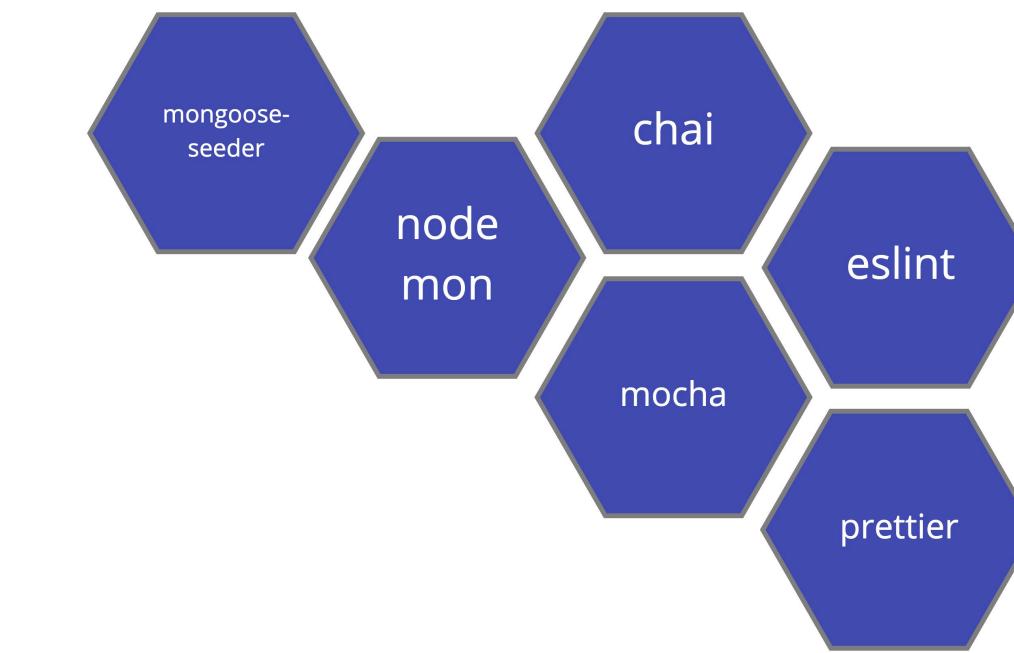


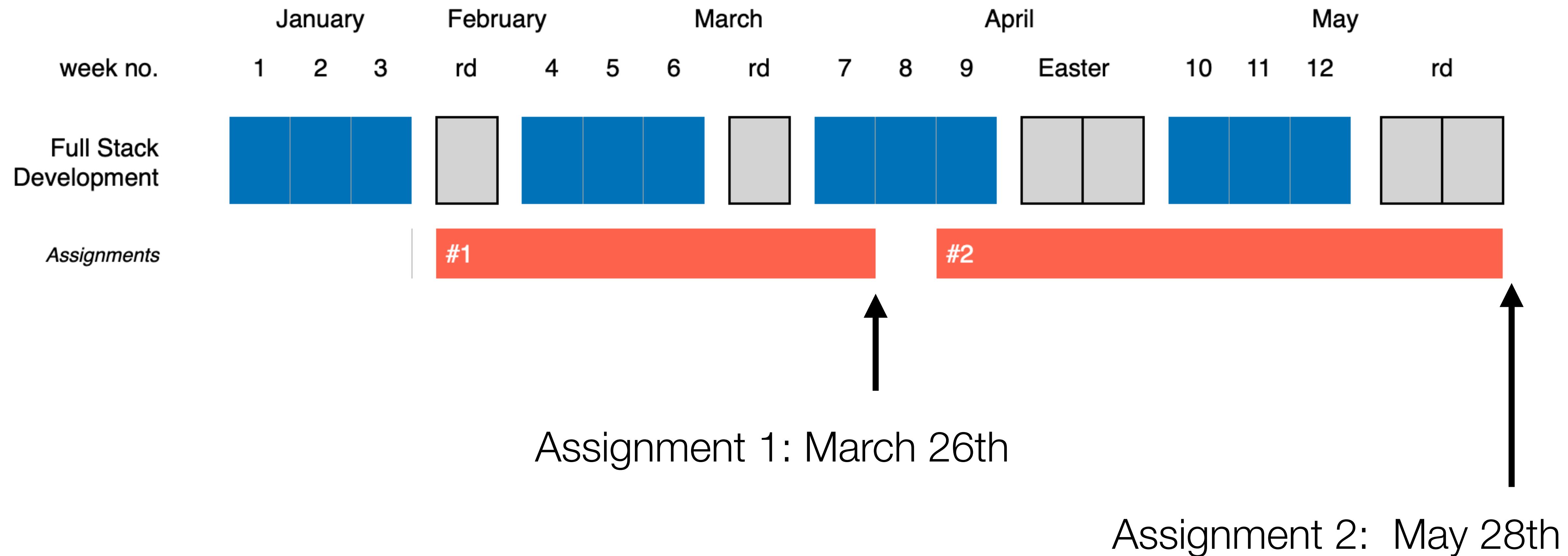
## Infrastructure



## Front End

## Tools





## PlaceMark

A point of interest, or POI, is a specific point location that someone may find useful or interesting.



*"A “point of interest” (POI) is a location for which information is available. A POI can be as simple as a set of coordinates, a name, and a unique identifier, or more complex such as a three-dimensional model of a building with names in multiple languages, information about opening and closing hours, and a civic address. POI data has many applications, including augmented reality browsers, location-based social networking games, geocaching, mapping and navigation systems."*

<http://www.opengeospatial.org/projects/groups/poiswg>

[https://en.wikipedia.org/wiki/Point\\_of\\_interest](https://en.wikipedia.org/wiki/Point_of_interest)

[https://en.wikipedia.org/wiki/Point\\_of\\_interest](https://en.wikipedia.org/wiki/Point_of_interest)

# PlaceMark Examples

- Landscape feature
- National monument
- Walking Trail
- Bridge
- Tree
- Venue
- Ringfort
- Dolmen
- River
- Bog
- Island
- Forest

# PlaceMark Outline

Essential Data  
Structure & Support  
Service

Richer Media  
Experience + User  
Management

POI Sharing /  
Community Features

PlaceMark Core

PlaceMark Enhanced

PlaceMark Community

# PlaceMark Core

## PlaceMark Characteristics

- Name
- Category
- Description
- Analytics

## Service Features

- Sign up / log in to service
- Create, Read, Update, Delete
- Query
- Group into Categories

# PlaceMark Enhanced

## PlaceMark Characteristics

- Images
- Location
- Weather

## Service Features

- Show Placemark Photo(s)
- Show Placemarks on Map
- Admin Interface
  - Admin user
  - Admin dashboard

# PlaceMark Community

## PlaceMark Characteristics

- Creator / Editor
- Rating
- Reviews
- Discussion
- Now

## App Features

- Share
- Review & Rate
- Notice Board
- Live Updates

# PlaceMark Roadmap

Assignment

PlaceMark React

Assignment 1

PlaceMark Mobile V1

Assignment 2

PlaceMark Mobile V2

Assignment 1

PlaceMark Service V1

Assignment 2

PlaceMark Service V2

PlaceMark Web App

Full Stack  
Development

ICT Skills 2

Mobile  
App  
Development

Implement POI Core + selected features of POI Enhanced

Support the following User Management Features:

- Sign up / Login in / Delete Account
- Simple User Admin Dashboard

Support the following POI Characteristics:

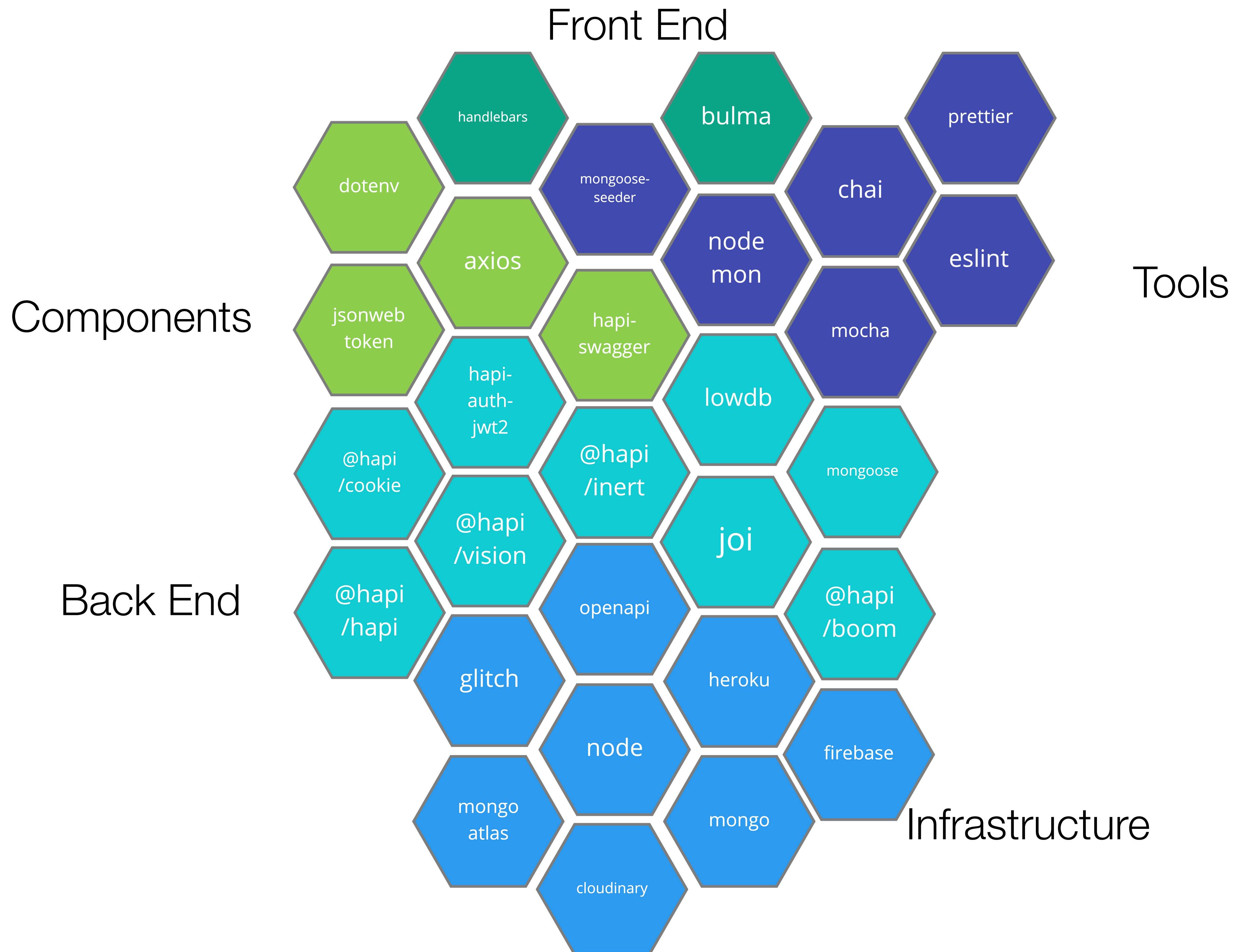
- Name, Description, Category, Location, Image



Support the following app features:

- Create, Read, Update & Delete POIs
  - Organise PlaceMarks into categories
- API
- Endpoints + tests
  - Swagger Documentation
  - JWT Security

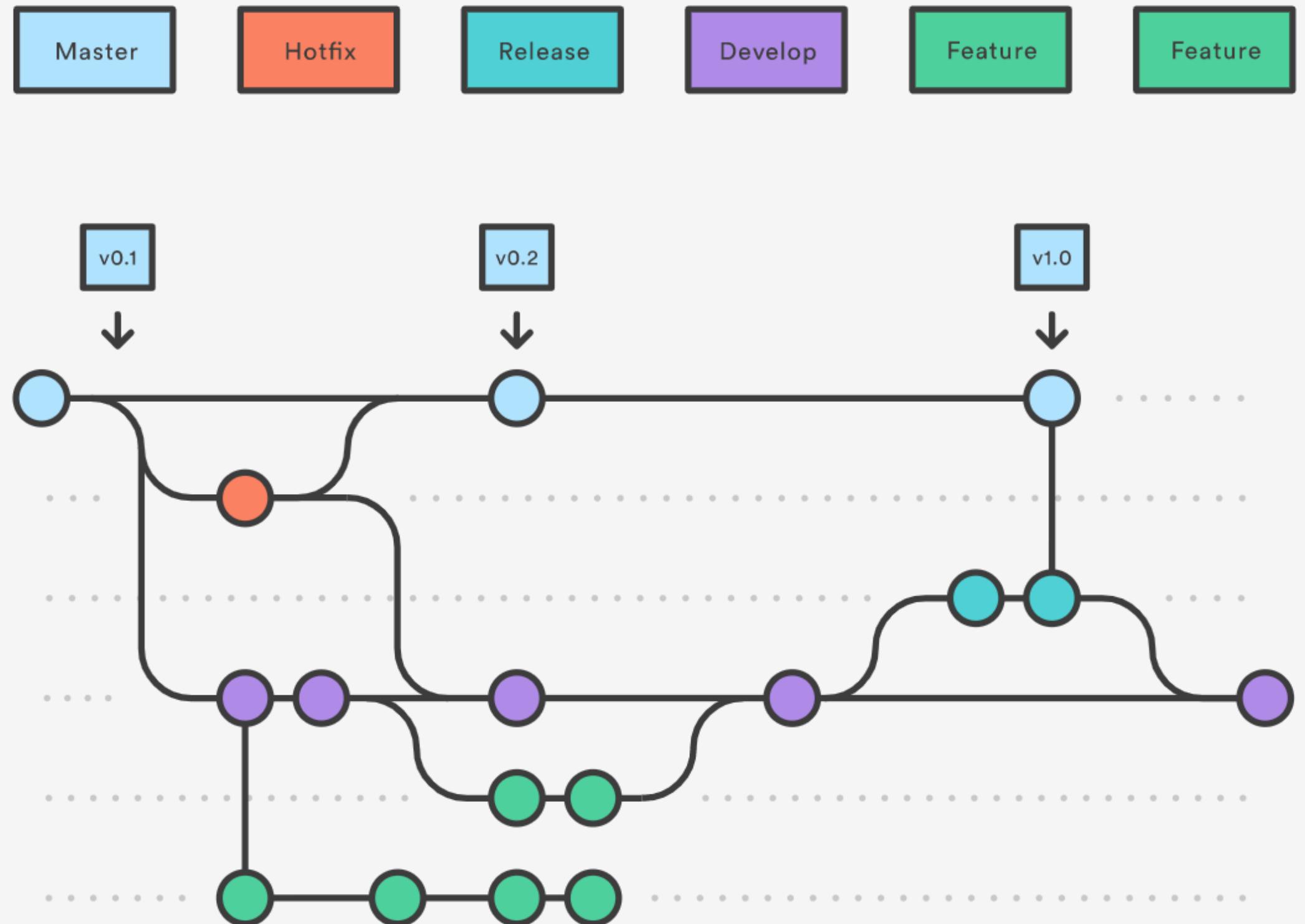
	Accounts	Placemark Features	API	Models	Deployment	Git
baseline	Signup / Login	Name	Basic API	Mem	Locahost	git + commit History
good	Cookie Authentication/ User Settings	Description, Location (lat,lng)	Unit Tests	JSON	Glitch	Structured readme
excellent	Basic Admin Account List/Remove Users	Categories	Open API (Swagger)	Mongo	Cloud Atlas	Tagged releases
outstanding	Admin Dashboard + analytics	Images	JWT	Firebase	Heroku	Development /Feature / Master branch



# Gitflow Workflow

Gitflow Workflow is a Git workflow design that was first published and made popular by [Vincent Driessen at nvie](#). The Gitflow Workflow defines a strict branching model designed around the project release. This provides a robust framework for managing larger projects.

Gitflow is ideally suited for projects that have a scheduled release cycle. This workflow doesn't add any new concepts or commands beyond what's required for the [Feature Branch Workflow](#). Instead, it assigns very specific roles to different branches and defines how and when they should interact. In addition to feature branches, it uses individual branches for preparing, maintaining, and recording releases. Of course, you also get to leverage all the benefits of the Feature Branch Workflow: pull requests, isolated experiments, and more efficient collaboration.



# POI Data Set: Islands of Ireland

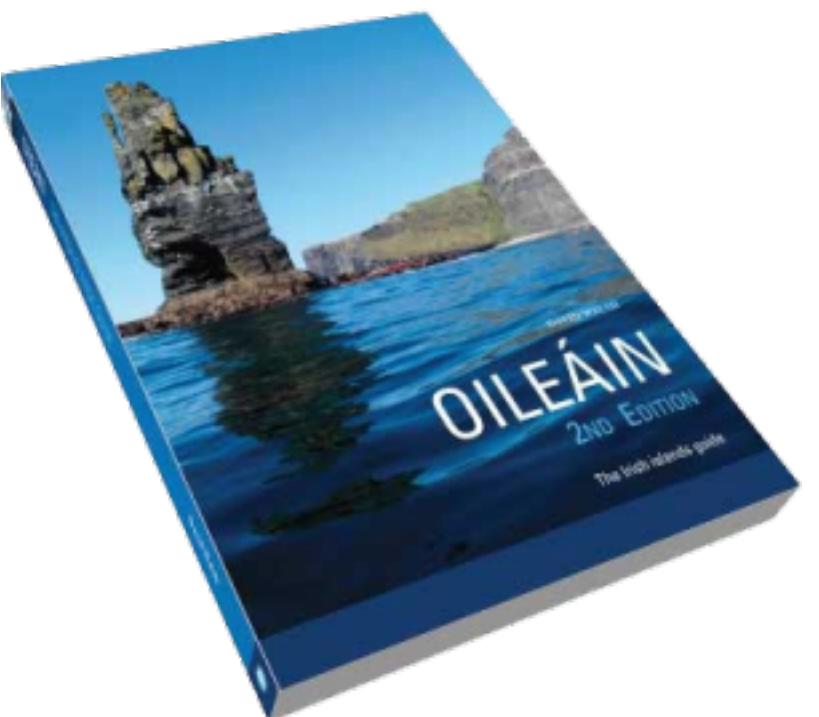
POI Web Application

V1

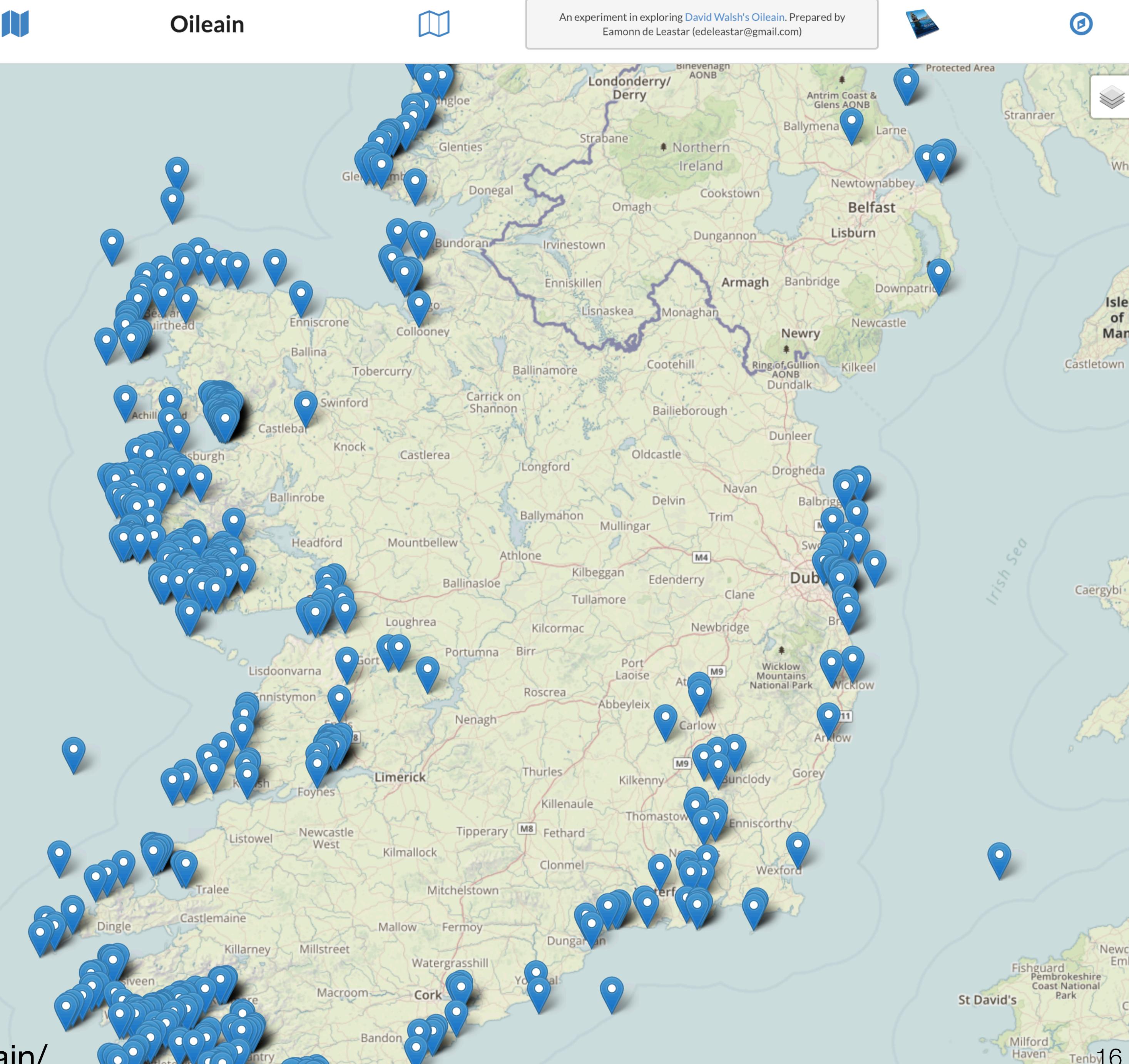
<https://github.com/edeleastar/oileain>  
<https://oileain.netlify.app>

V2

<https://github.com/edeleastar/oileain-next>  
<https://oileain-next.netlify.app/>



<http://www.oileain.org/index.php/viewdownload-oileain/>

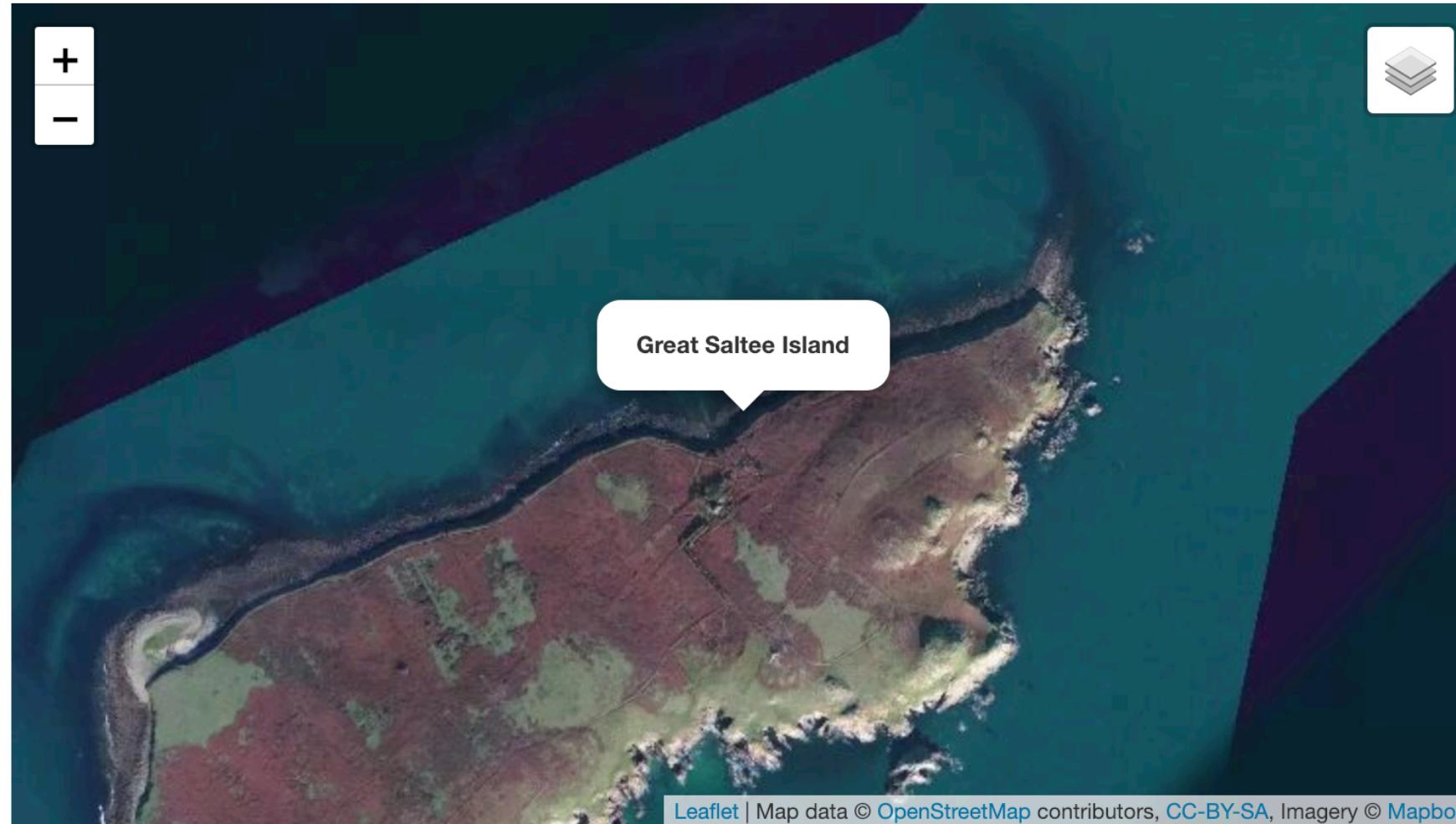




# Great Saltee Island



An experiment in exploring David Walsh's Oileain. Prepared by Eamonn de Leastar (edeleastar@gmail.com)



[Leaflet](#) | Map data © OpenStreetMap contributors, CC-BY-SA, Imagery © Mapbox

GPS-compatible

Latitude	52.12079534
Longitude	-6.61081916

Transverse Mercator

Eastings	695129.764
Norhtings	97400

Full Irish Grid

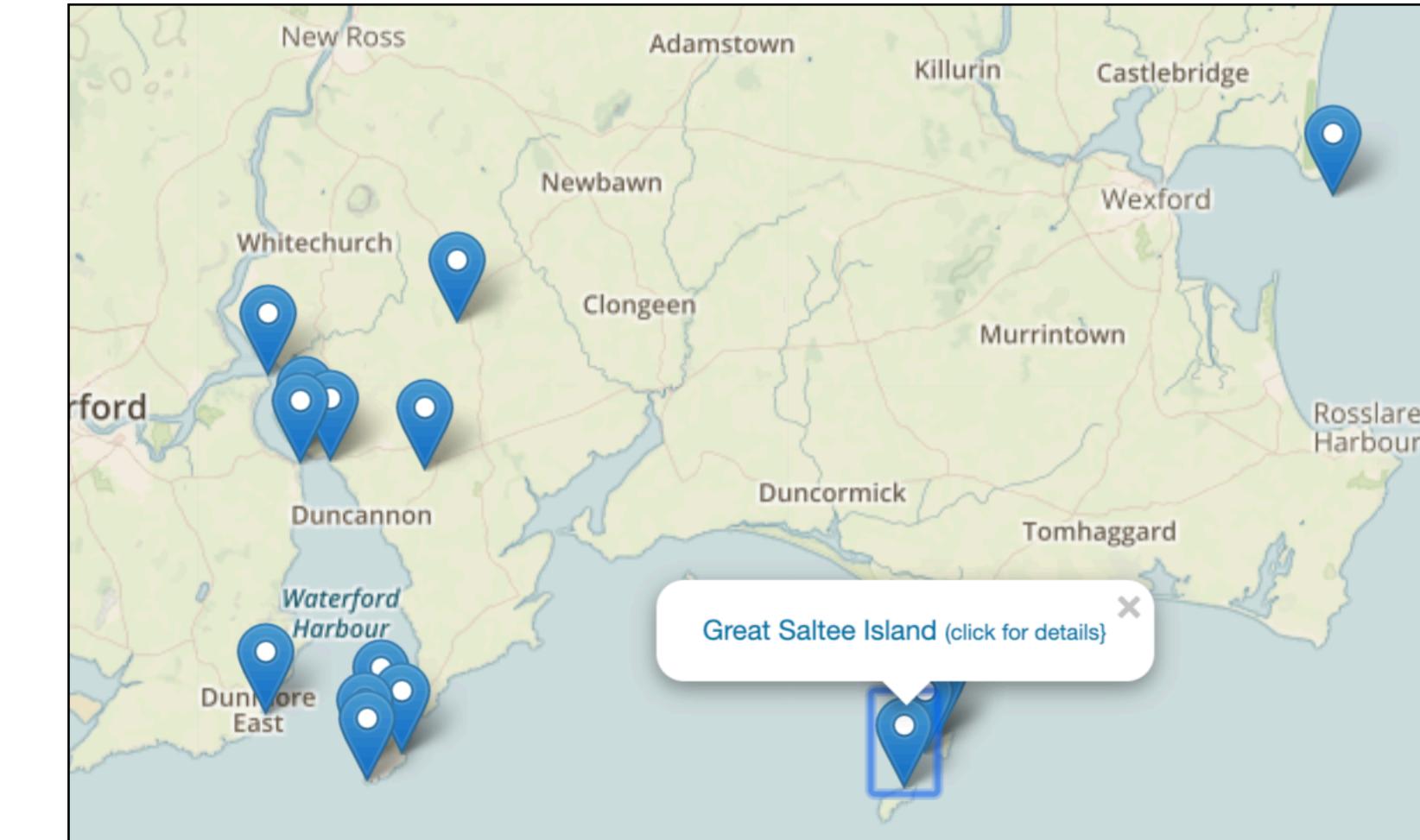
Eastings	295200
Norhtings	97400

Irish Grid

Sheet	X
Eastings	952
Norhtings	974

**Great Saltee Island X952-974 Sheet 77** This is a beautiful island. Grazed and easily walked or camped on, this island is lovely and deservedly popular with Irish paddlers. The island is a famed bird-watching spot, and is often inhabited by birding visitors in season, mainly spring and autumn. Once inhabited by 20 people, the island became uninhabited relatively early by Irish island standards. There are monuments and references to Prince Michael of Saltee on the island. He bought the island in 1943, crowned himself Prince in 1972, and died in 1998. Renewed interest in the island by his extended family has resulted in some of the scrub being removed around the remains of the old rick yard and the corn stands are more clearly visible. Landing Land at X952-974 on the N side, E of the middle. The main landing area has recently been improved with a channel having been cleared through the boulder beach, which in June 2003 gave a welcome sandy strip even at the lower stages of the tide. There are steps above to a house in trees. This landing is sheltered from the SW by the headland.

members of the family have been known to stay for long weekends, or perhaps longer, when the family are in residence. The island was first mentioned in the Annals of Ulster in 1630. Captain George Carew circumnavigated the island in 1602. Circumnavigation gives a good impression of the island, but beware the cliffs and the sea conditions at the time of the visit. The island is a nature reserve, and is a haven for many seabirds, particularly albatrosses. It is also a popular destination for day-trippers from Waterford and Wexford. The island is a nature reserve, and is a haven for many seabirds, particularly albatrosses. It is also a popular destination for day-trippers from Waterford and Wexford.



[Great Saltee Island \(click for details\)](#)

# Illaunroe



An experiment in exploring David Walsh's Oileain. Prepared by Eamonn de Leastar (edeleastar@gmail.com)

- ▶ North East
- ▶ East Coast
- ▶ South Coast
- ▶ Mid West

Carrig Island

Foynes Island

Inishmurry

Inishtubbrid

Canon Island

Inishloe

Blackthorn Islands

Doon Island

Inishmacowney

Illaunbeg or O'Donnell's Island

Shore Island

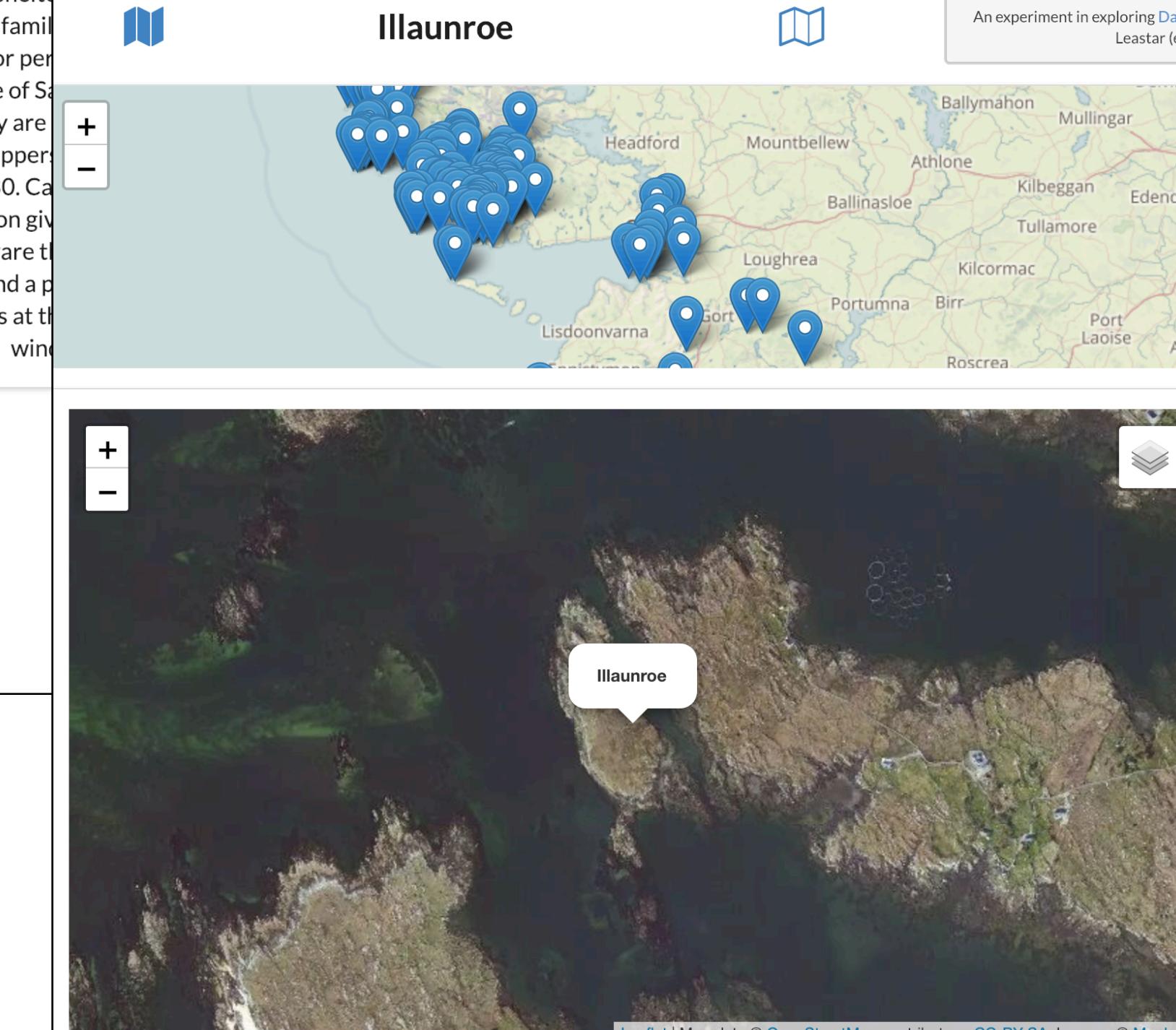
Feenish

Deenish Island

Deer Island

Coney Island

Inishdadraum



[Leaflet](#) | Map data © OpenStreetMap contributors, CC-BY-SA, Imagery © Mapbox

GPS-compatible

Latitude	53.28669416
Longitude	-9.71010917

Transverse Mercator

Eastings	485975.328
Norhtings	227600

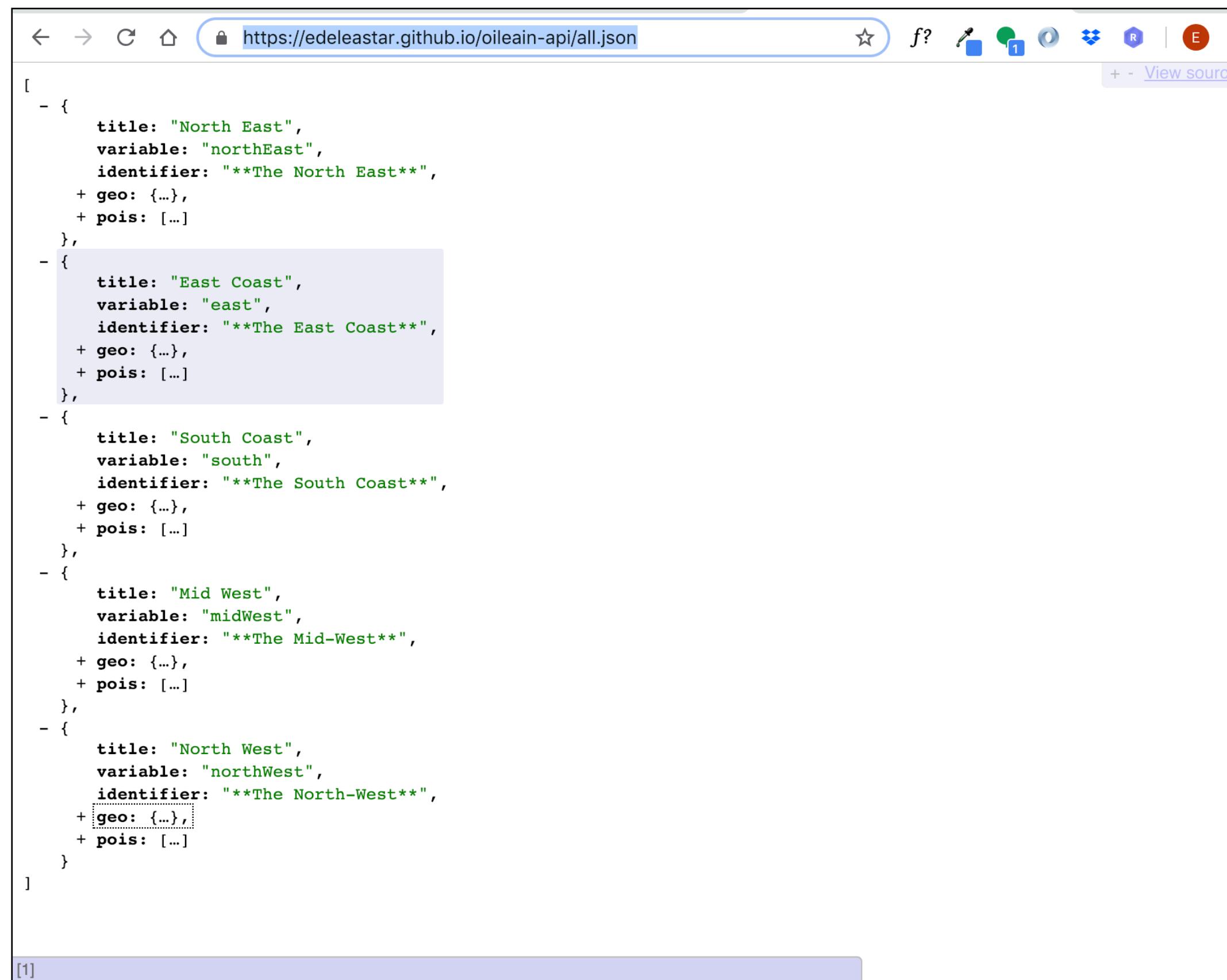
Full Irish Grid

Irish Grid

# Oileain app Inspiration for V2 (not V1)

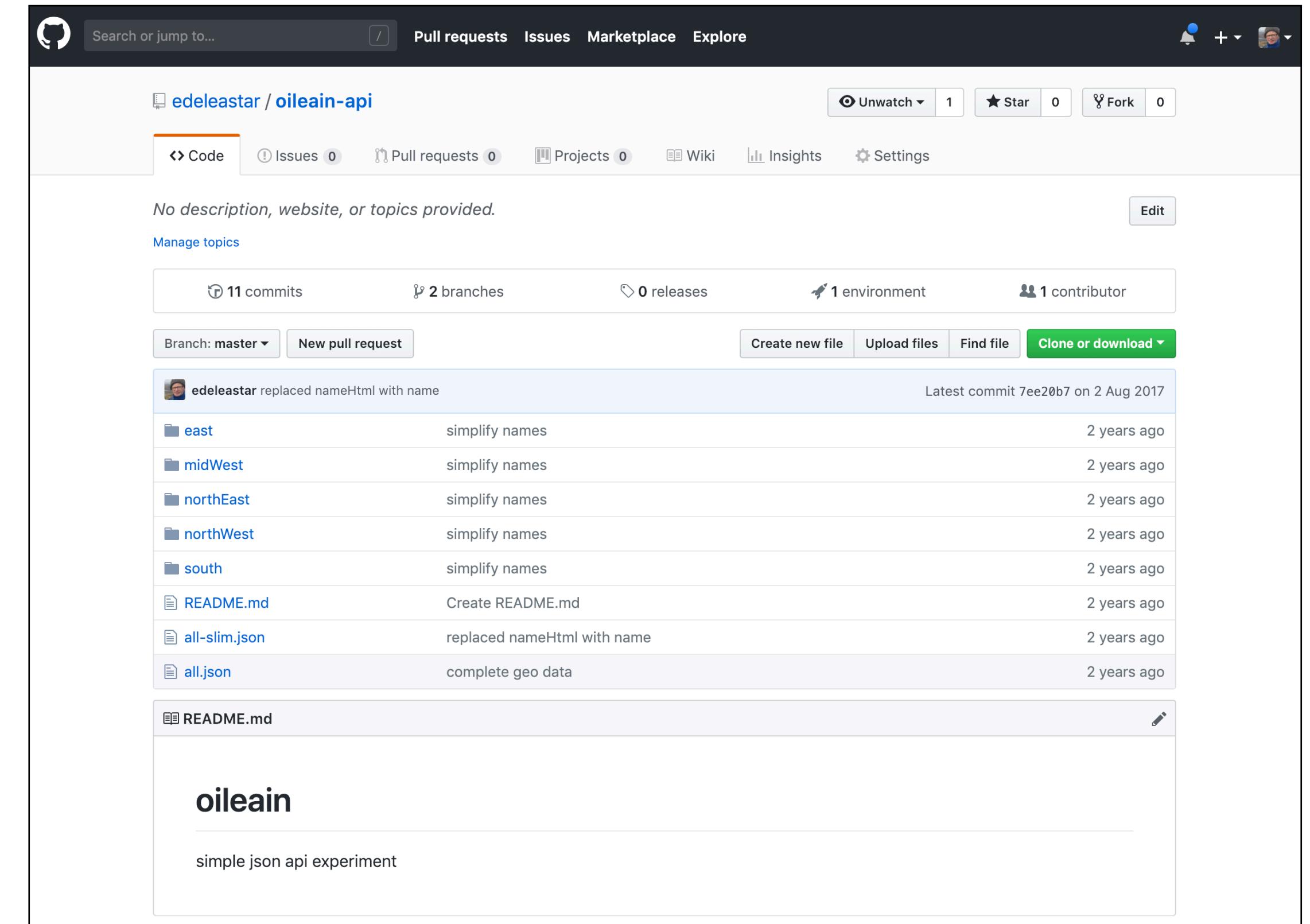
# Data set in JSON format

<https://edeleastar.github.io/oileain-api/all.json>



```
[  
  {  
    "title": "North East",  
    "variable": "northEast",  
    "identifier": "**The North East**",  
    + geo: {...},  
    + pois: [...]  
  },  
  {  
    "title": "East Coast",  
    "variable": "east",  
    "identifier": "**The East Coast**",  
    + geo: {...},  
    + pois: [...]  
  },  
  {  
    "title": "South Coast",  
    "variable": "south",  
    "identifier": "**The South Coast**",  
    + geo: {...},  
    + pois: [...]  
  },  
  {  
    "title": "Mid West",  
    "variable": "midWest",  
    "identifier": "**The Mid-West**",  
    + geo: {...},  
    + pois: [...]  
  },  
  {  
    "title": "North West",  
    "variable": "northWest",  
    "identifier": "**The North-West**",  
    + geo: {...},  
    + pois: [...]  
  }]  
[1]
```

<https://github.com/edeleastar/oileain-api>



# Data set in Text format

not be treated lightly. Eddies on the Donegal side run from Warren Point to Moville and are usable on both flood and ebb. Moville HW is 3:50 after Belfast.

The Narrows		
Direction	Time	Speed
In	3:00 after Belfast HW	3.5kn
Out	3:00 before Belfast HW	3.5kn

The ebb begins an hour earlier at Magilligan Point. The Spanish Armada The *Trinidad Valencera* hit a reef of Inishowen and came ashore East of Lough Foyle. Its crew of 450 mostly got off safely. Surrounded by English soldiers they eventually surrendered. 36 were ransomed and the rest were put to death. **Downhill** C753-362  
Sheet 4 There is public access at the extreme E end of Benone Beach at a point called Downhill Strand. The Downhill Hotel was closed and demolished. An apartment block now fills the gap. Parking and toilets are beside the apartments and access is by a stream through an archway under the railway. This spot is popular with anglers. The rocky area to the E of the prominent Mussenden Temple at C758-363 is loose basalt, eroded to provide caves and arches. Fulmar and Kittiwake thrive on the sewerage outfall. There is good access and parking at Castlerock village itself at C766-365, where there is parking and toilets at the beach access point. **County Antrim** Tidal overview On the north coast, the tide generally turns west at Belfast HW and east at Belfast LW. The tides are complex, particularly around Rathlin and should be studied carefully. Tides flow strongly at the headlands but there are usable eddies between. **River Bann** C783-367 Sheet 4 To the E of Castlerock village is the Bar

Oileáin  
a guide to the Irish islands

SEARCH OILEÁIN

Search ...

Home Page

Origins of Oileáin

View/Download Oileáin

Irish Marine Weather Forecasts

Irish Tide Times

Books and Further Reading

First Known Kayak Landings

Photographs 2004 trips ISKA

Recommended Excursions

Irish Sea Kayaking Association

Oileáin

a guide to the Irish islands

SEARCH OILEÁIN

Search ...

Home Page

Origins of Oileáin

View/Download Oileáin

Irish Marine Weather Forecasts

Irish Tide Times

Books and Further Reading

First Known Kayak Landings

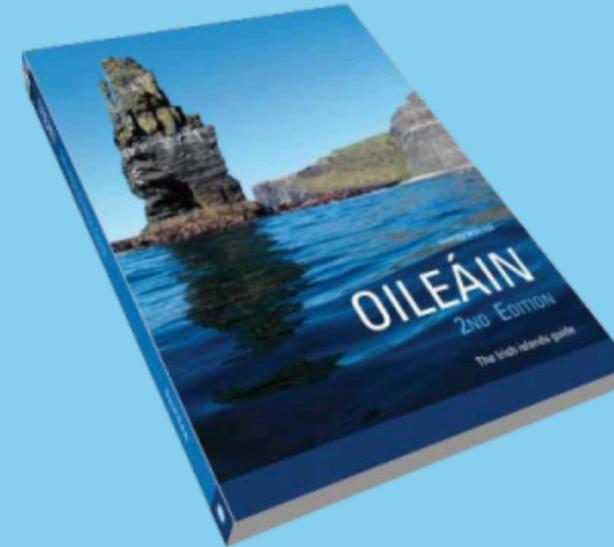
Photographs 2004 trips ISKA

Recommended Excursions

Irish Sea Kayaking Association

**Oileáin is an evolving guide to the Irish islands.**

*Oileain is sewn stitched high quality 300gsm card paperback.*



**Price €30**

select your location to order

Copies purchased here can be signed, unsigned, or bear a personalised salutation if required, such as "to Thomas from Patricia, happy 50th birthday" or whatever. My default inscription is "A. B. with best wishes David Walsh October 2016", so **if you want unsigned do please say so**. If using PayPal, stop when you get to the bit where you can "Review your information" and check your address details, as there is a button labelled "Add special instructions to the seller :Add". Left click

# Assignment 1 Specification



Concept, detail and grading  
spectrum for Assignment 1