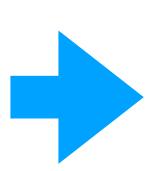
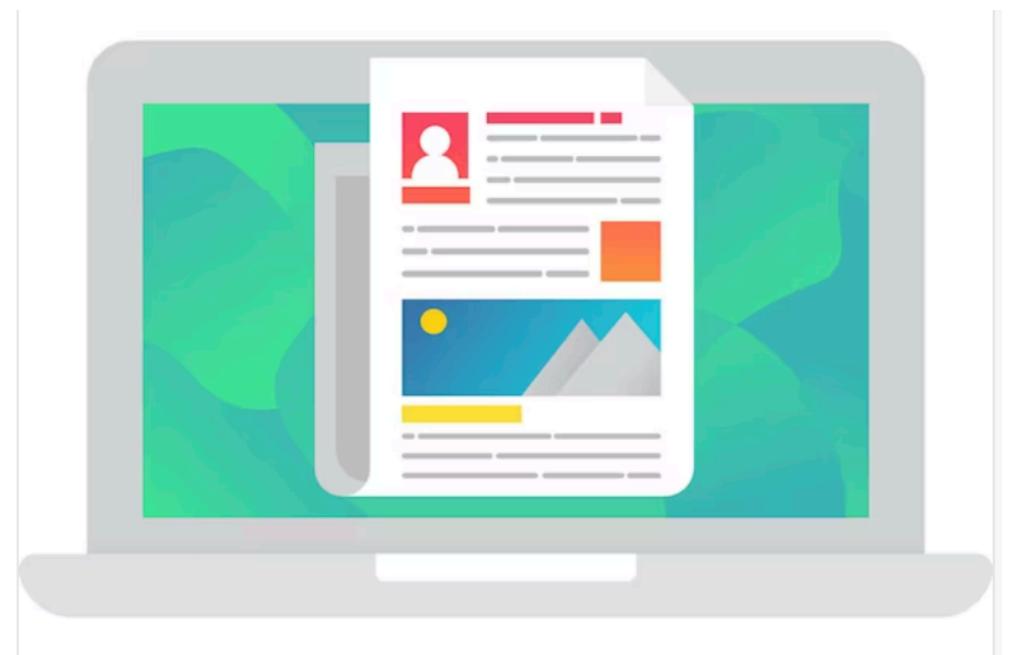


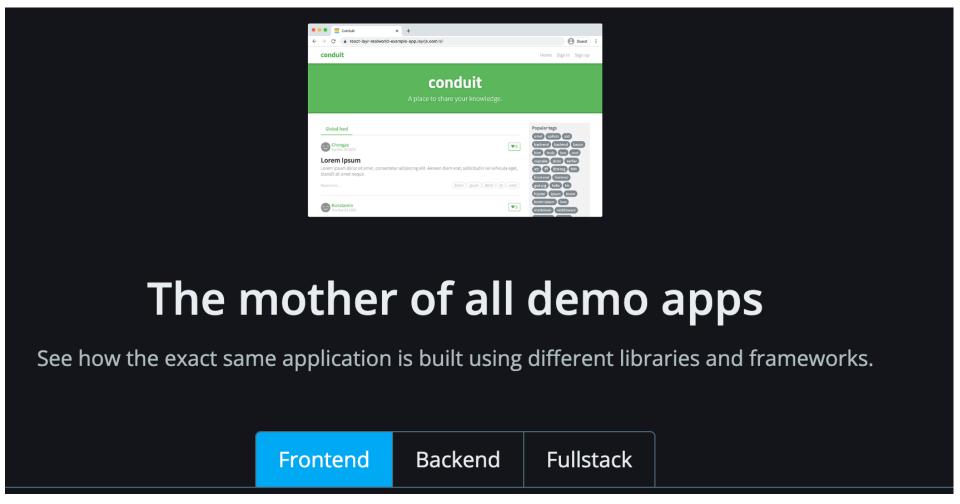
Concept, detail and grading spectrum for Assignment 1

Assignment Motivation & Philosophy

- Assignments present multiple opportunities:
 - Crystallise knowledge on relevant module(s)
 - Opportunity for creativity & innovation
 - Potentially important portfolio contribution
- Its not over when submitted, presented and graded
 - Ongoing maintenance & enhancements
 - Periodically rebuild using new technology stack

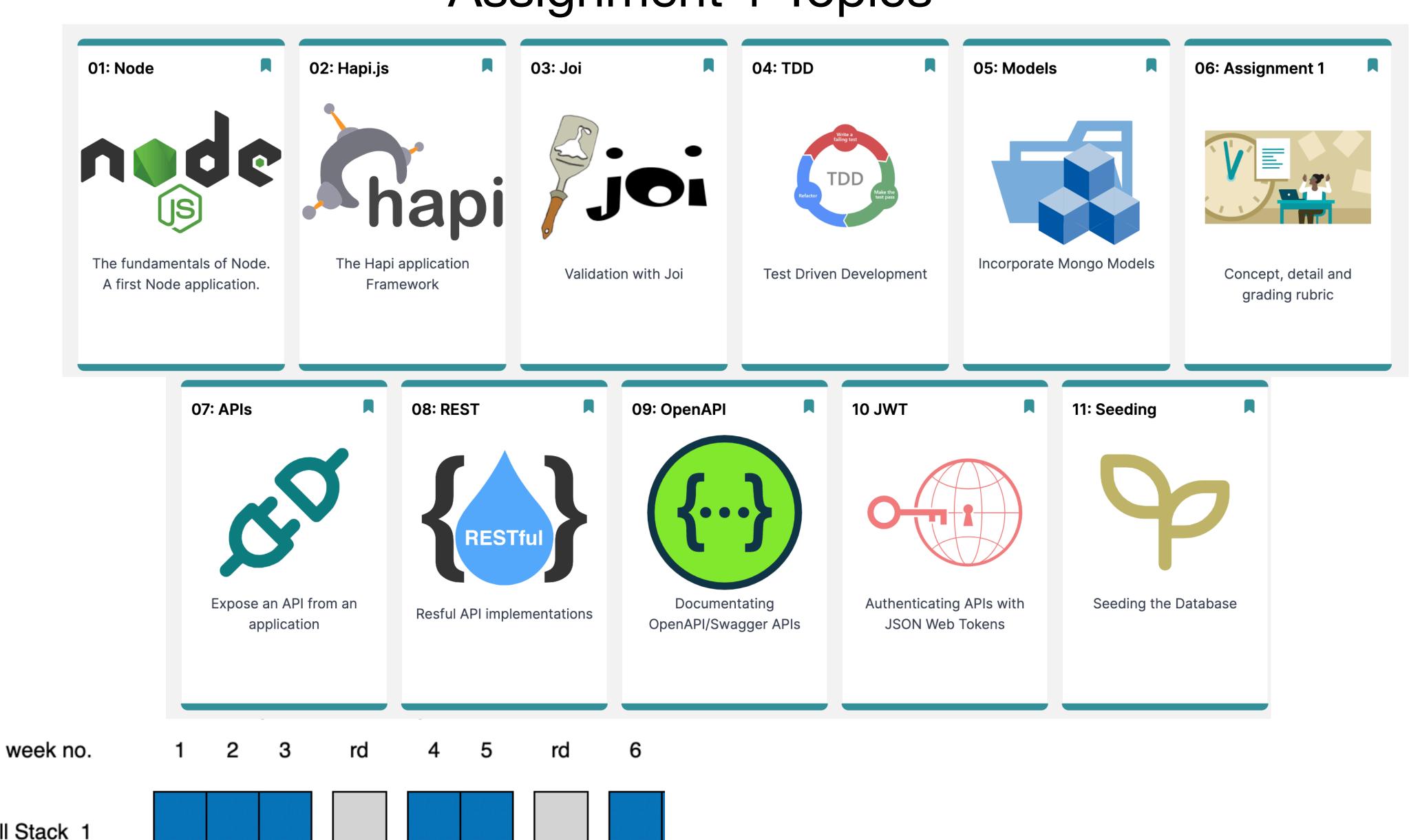






https://github.com/gothinkster/realworld https://codebase.show/projects/realworld

Assignment 1 Topics

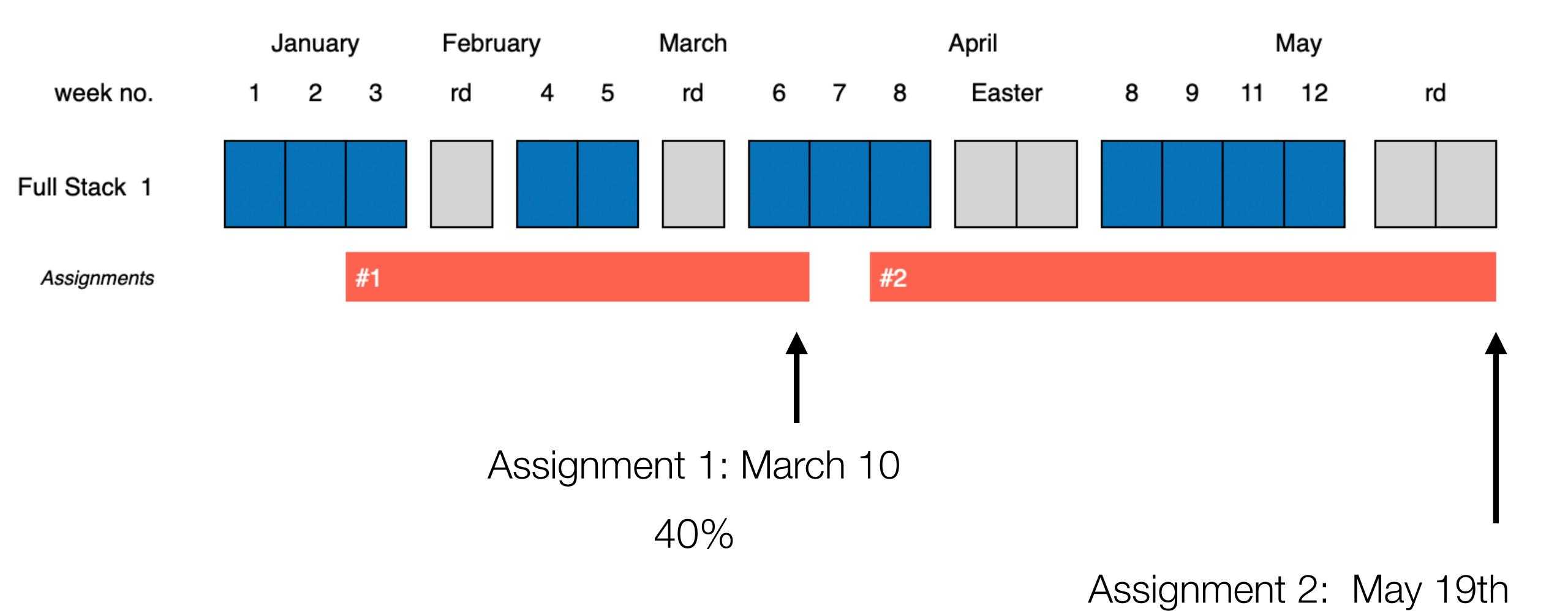


3

Full Stack 1

Assignments #1

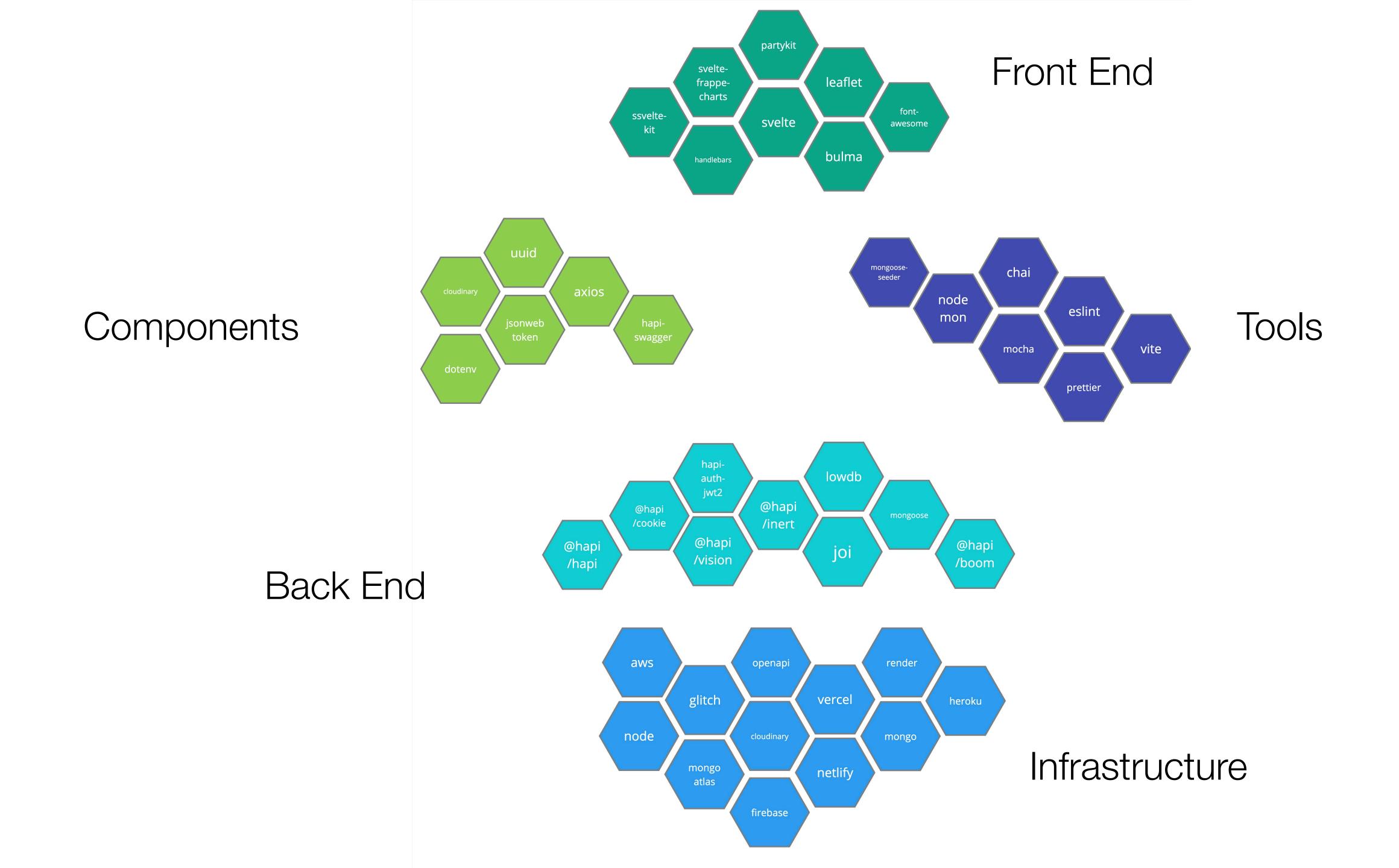
Assignment 1 due March 10th



60%

Full Stack Components & Services





<u>PlaceMark</u>

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, locationbased 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

PlaceMark Examples

- Landscape feature

- Ringfort

- Beach

- National monument

- Dolmen

- Museum

Walking Trail

- River

- Climb

- Bridge

- Bog

- Cycleway

- Tree

- Island

BirdwatchingLocations

- Venue

- Forest

- Diving

Product Feature Sets

POI Sharing /
Community Features

Community

You are free to innovate an the type, range and variety of features

Richer Media Experience + User Management

Enhanced

These categories are to stimulateyourbrainstorming

Essential Data
Structure & Support
Service

Core

- Some ideas on the next slides...

Information Model

<u>Features</u>

- Placemark
 - Name
 - Category
 - Description
 - Analytics
- User
 - Basic user details

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

Core

Information Model

<u>Features</u>

- Placemark
 - Images
 - Location
 - Weather
- User
 - Types

- Placemark images
- Placemark Map Location
- Admin
 - Admin user
 - Admin dashboard

Enhanced

Information Model

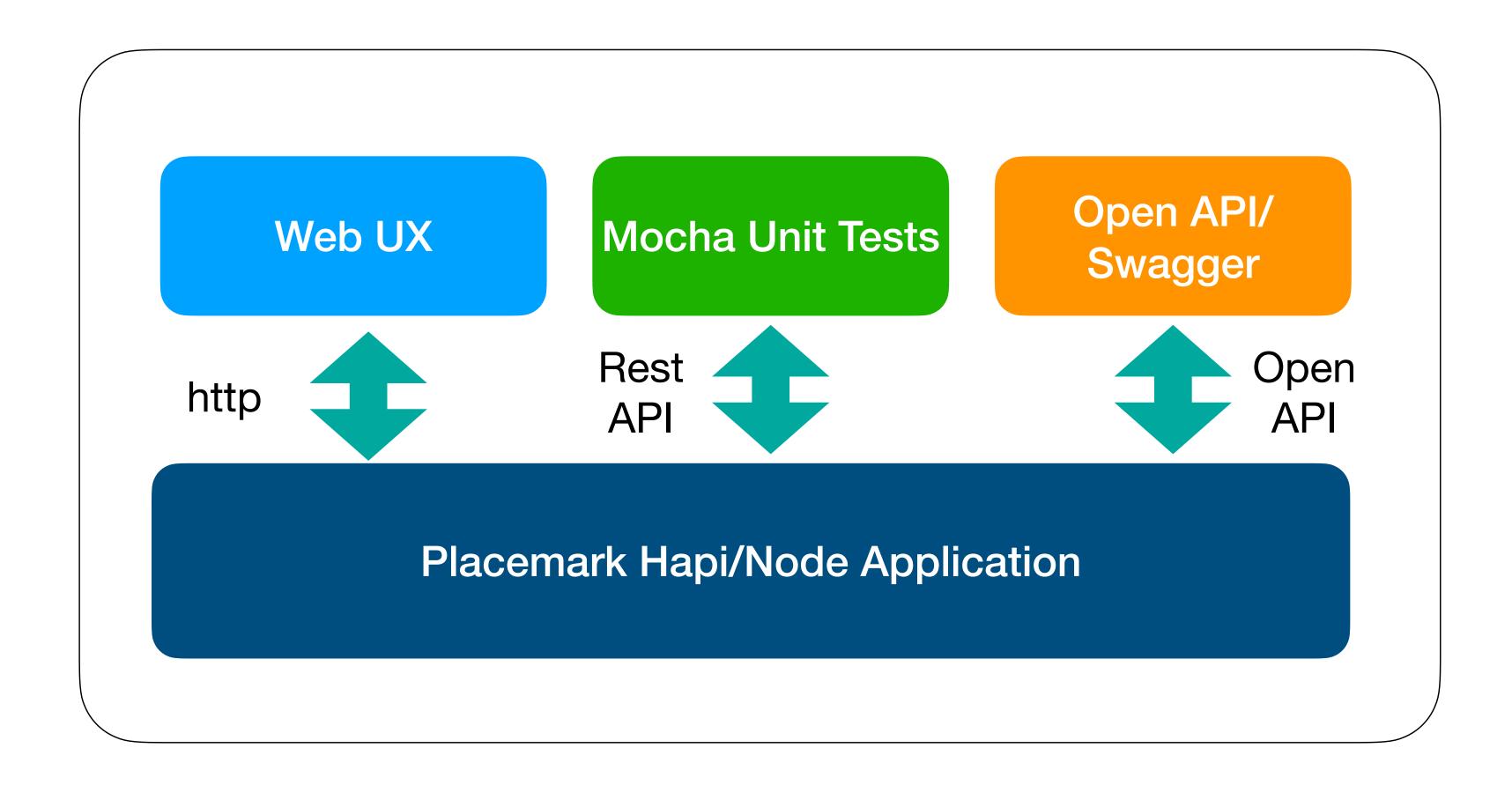
<u>Features</u>

- Placemark
 - Creator / Editor
 - Rating
 - Reviews
 - Discussion
- User
 - Interaction information

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

Community

PlaceMark 1.0 Architecture (Assignment 1)



Placemark 1.0 Feature Set

Enhanced Core

Implement POI Core + selected features of POI Enhanced

Support the following User Management Features:

- Sign up / Login in / Delete Account
- User Admin Dashboard with simple analytics

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/Tests	Models	Deployment	Git
Level 1	Signup / Login	Name	Basic API	Mem	Locahost	git + commit History
Level 2	Cookie Authentication/ User Settings	Description, Location (lat,lng)	Core unit Tests	JSON	Glitch	Structured readme
Level 3	Basic Admin Account List/Remove Users	Categories	Open API (Swagger) + tests	Mongo	Cloud Atlas	Tagged releases
Level 4	Admin Dashboard + analytics	Images	JWT + tests	Firebase	Heroku / Render	Development / Feature / Master branch

Getting Started

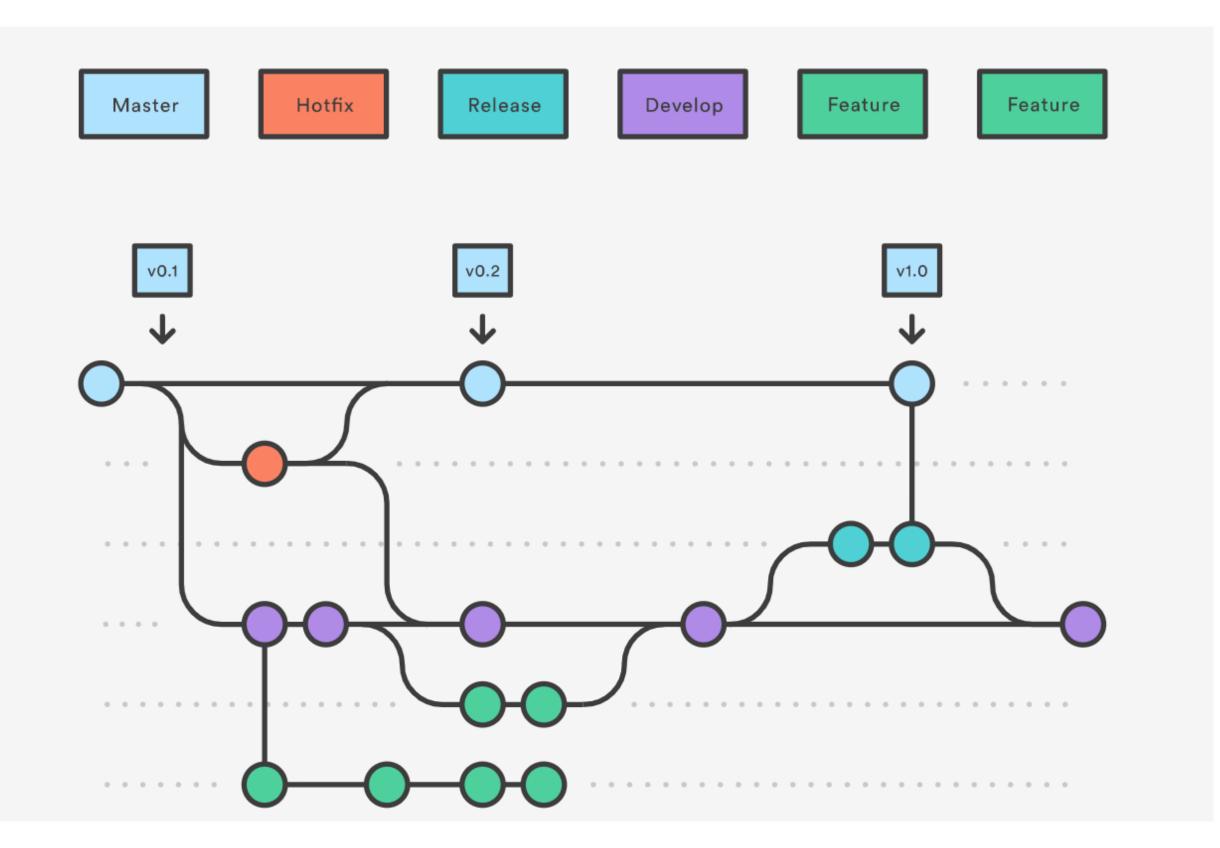
- Identify a set of suitable Point of Interest concept for your app. Consider how they would be created, grouped, shared, Consider the value of the service you are inventing. To whom would it be of interest? What would they do with it?
- Once you have determined the Poi concept, compose a small set of example data you will use for testing
- Sketch out a web interface using pencil
 & paper of a perhaps even a simple
 wireframe too like Excallidraw
- Revisit the Playtime labs perhaps consider using the latest completed lab as a starter project.

- The User model can probably be adopted as is, however you will need to implement a new model to match your Pol concept.
- Get the user system working + some UX for creating and viewing your Pol.
- Grouping / Categorising Pols: What would a group represent? What would the UX for this look like? Prototype an approach.
- At this stage, you might have a sufficient set of ideas/concepts/tasks in play to consider organising your work in some way. This could be a simple whiteboard or you might like something more structured. Github Projects is worth evaluating. It can be used without necessarily using advanced git features

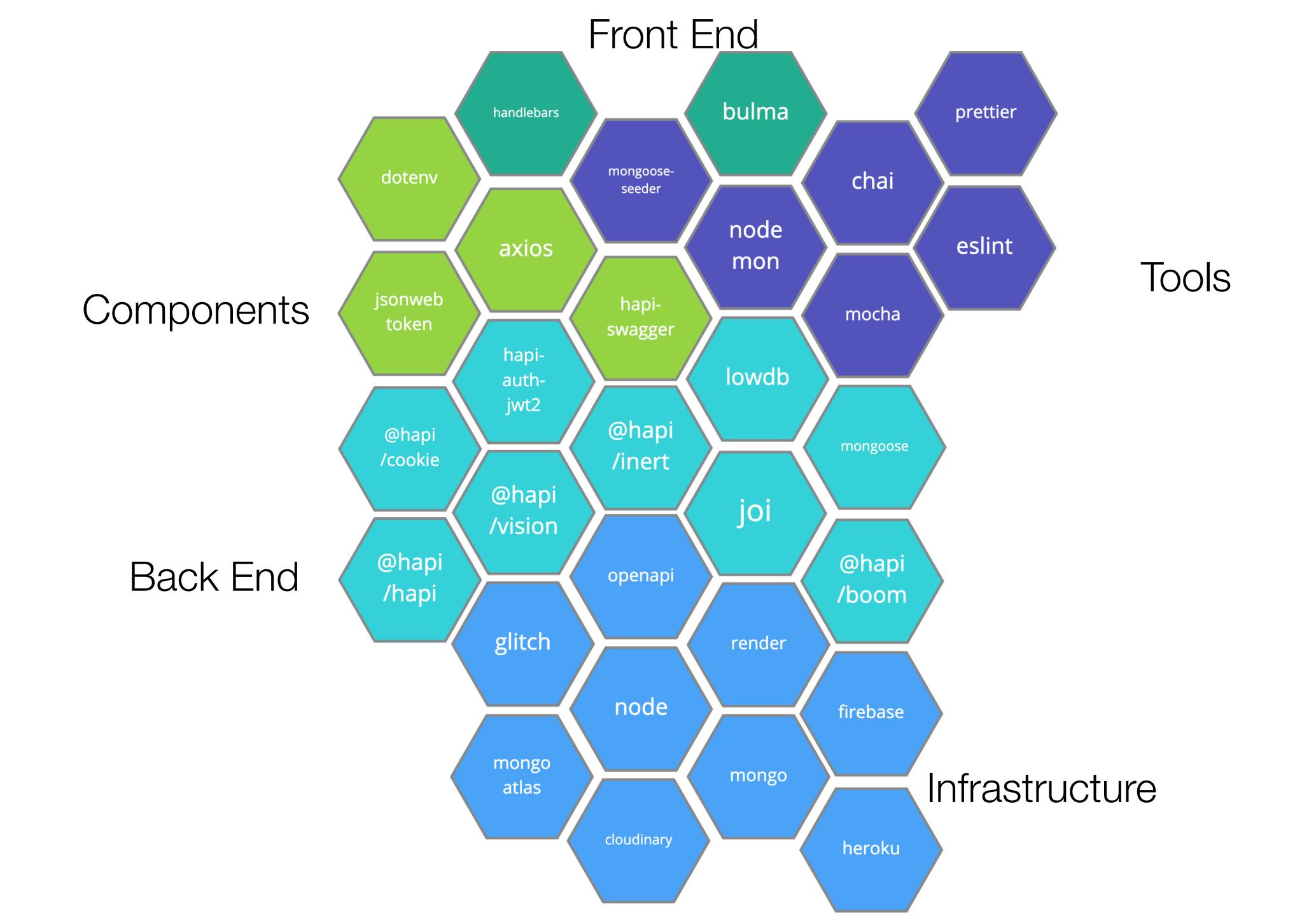
Gitflow Workflow

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.

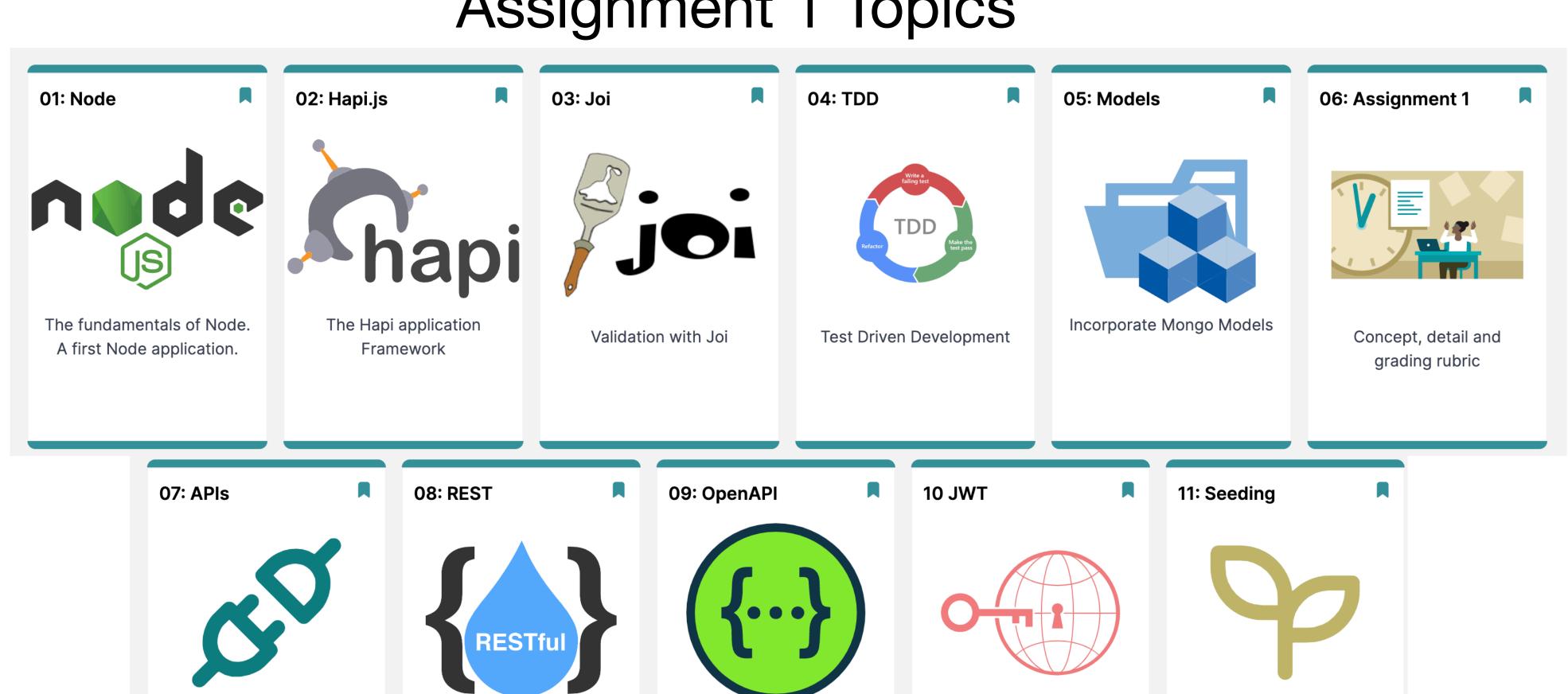
Gitflow is ideally suited for projects that have a scheduled release cycle. This workflow doesn't add any new concepts or commands beyond what's required for the Feature Branch Workflow. Instead, it assigns very specific roles to different branches and defines how and when they should interact. In addition 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.



https://www.atlassian.com/git/tutorials/comparing-workflows/gitflow-workflow



Assignment 1 Topics



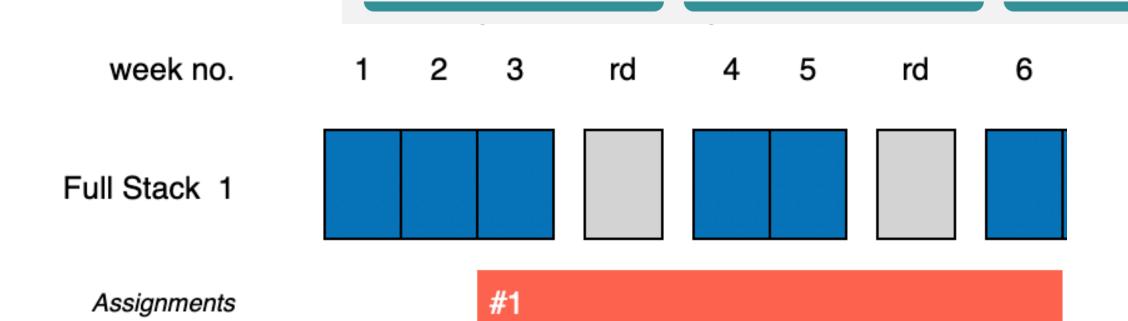
Documentating

OpenAPI/Swagger APIs

Resful API implementations

Authenticating APIs with

JSON Web Tokens



Expose an API from an

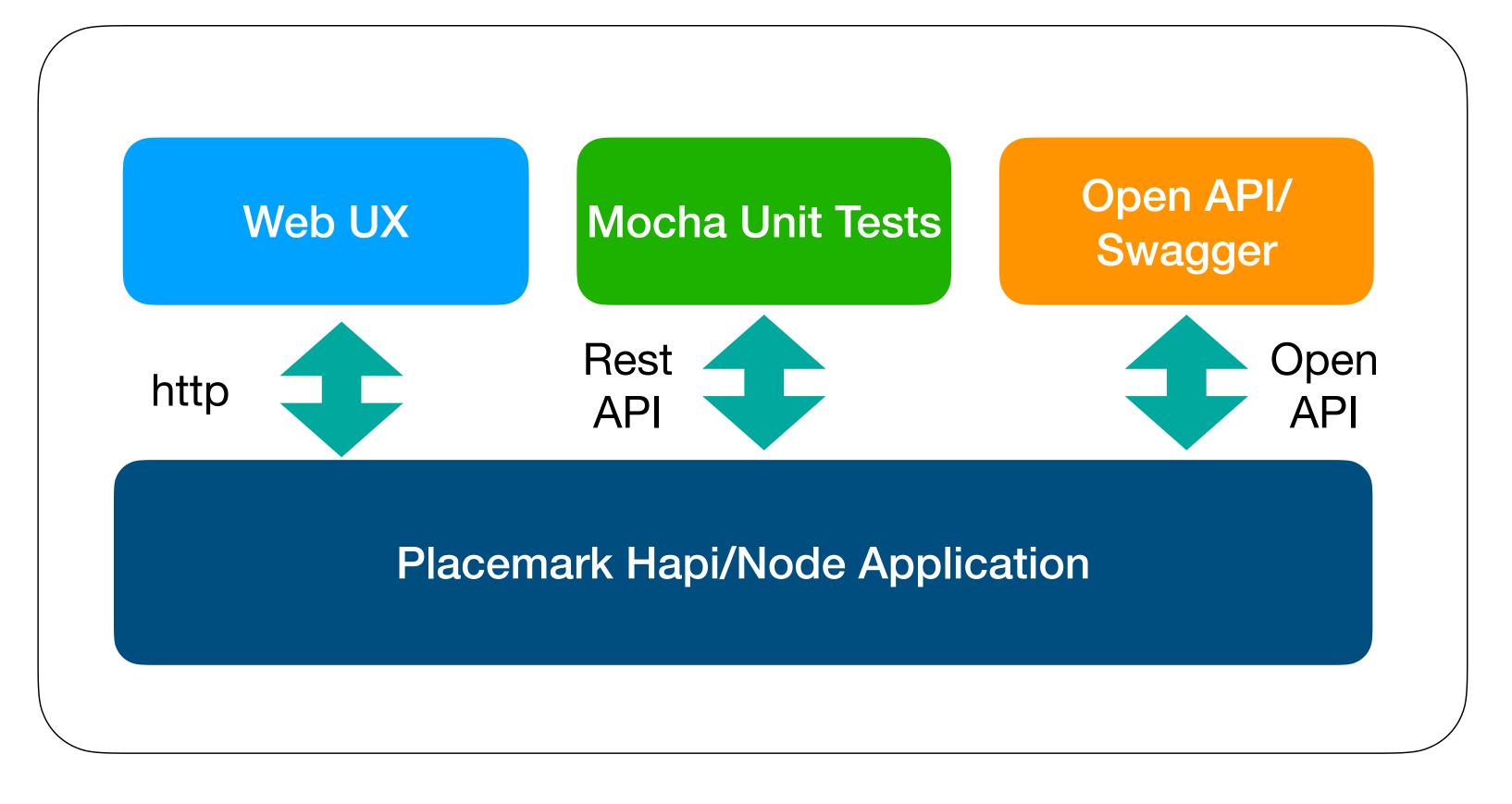
application

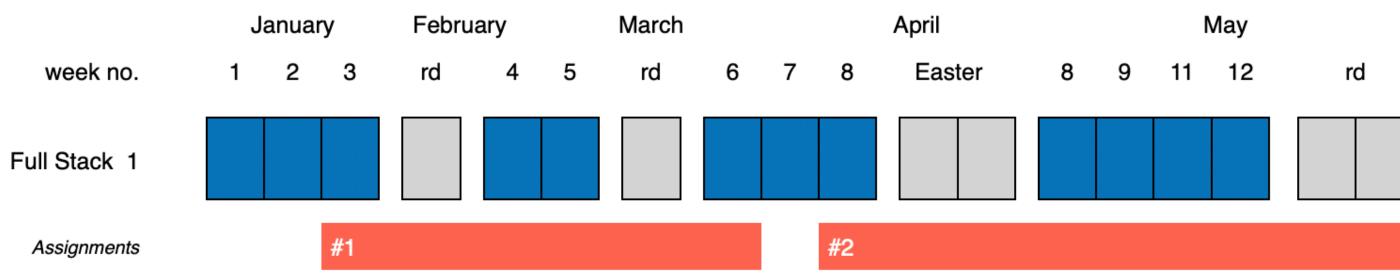
Assignment 1 due March 10th

Seeding the Database

PlaceMark 1.0 Architecture (Assignment 1)

Submitted as a single repo

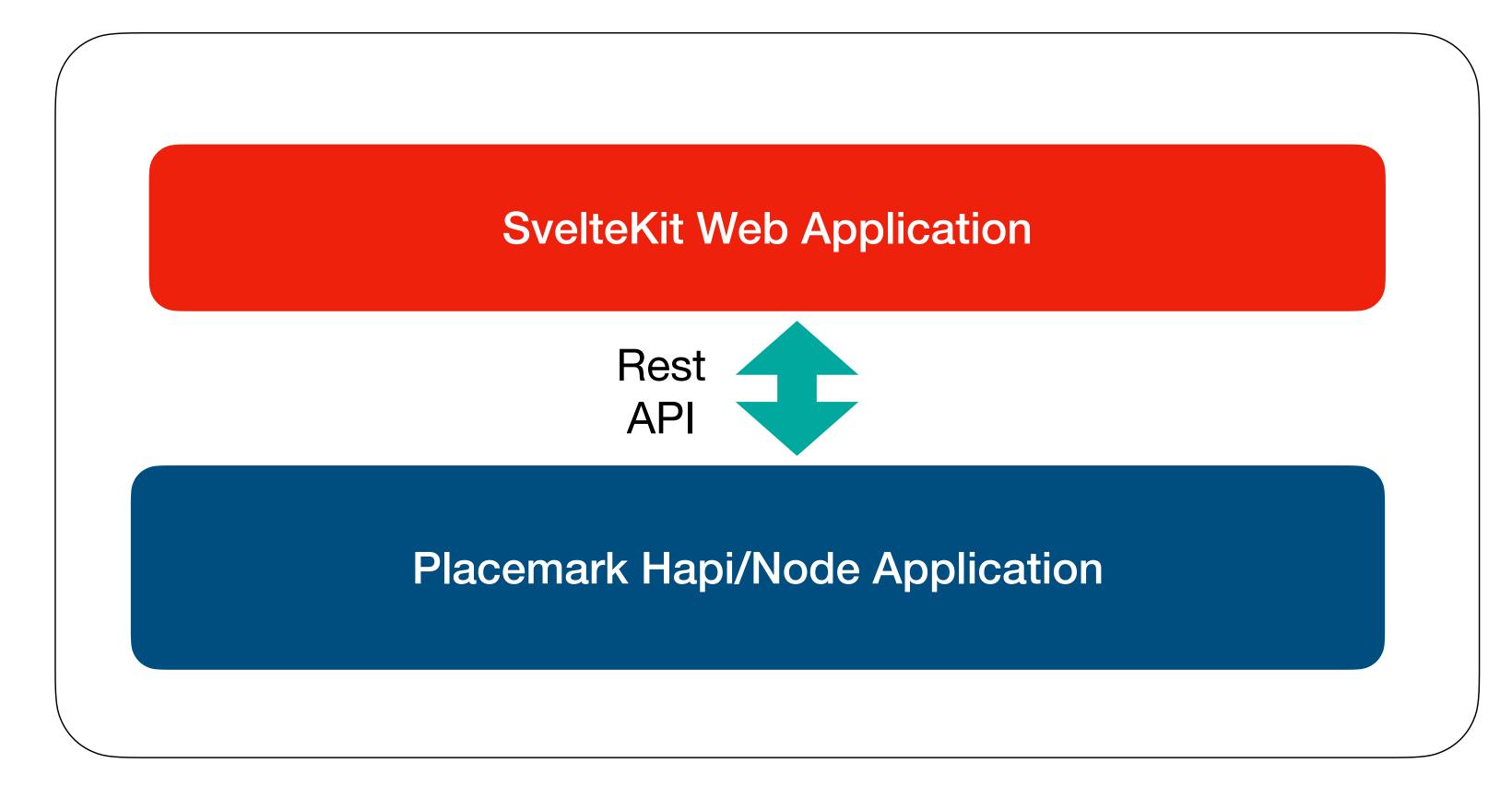


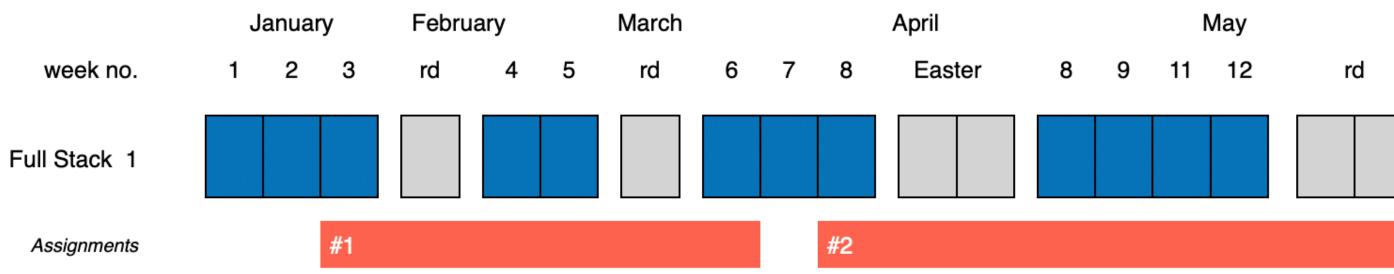


PlaceMark 2.0 Architecture (Assignment 2)

SvelteKit Repo

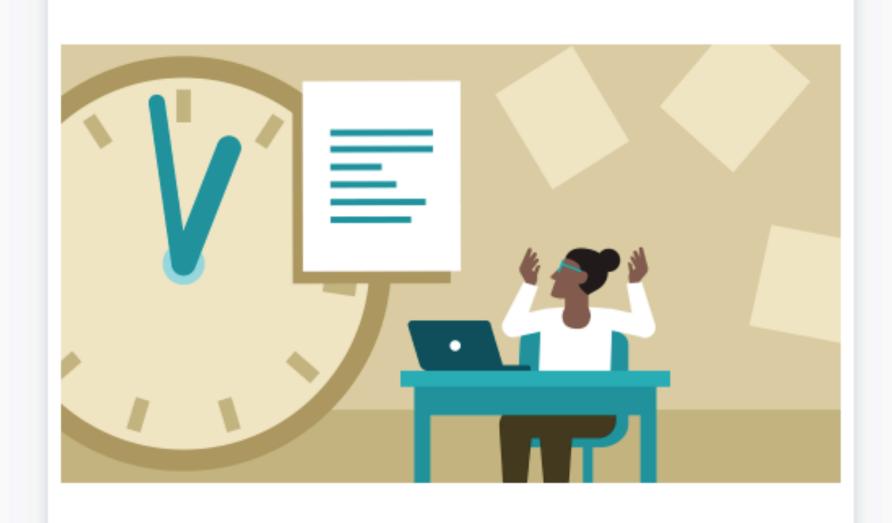
Hapi/Node Repo











Concept, detail and grading spectrum for Assignment 1