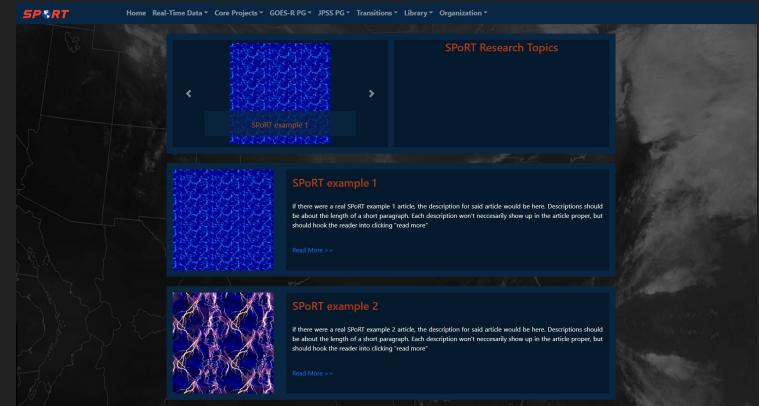
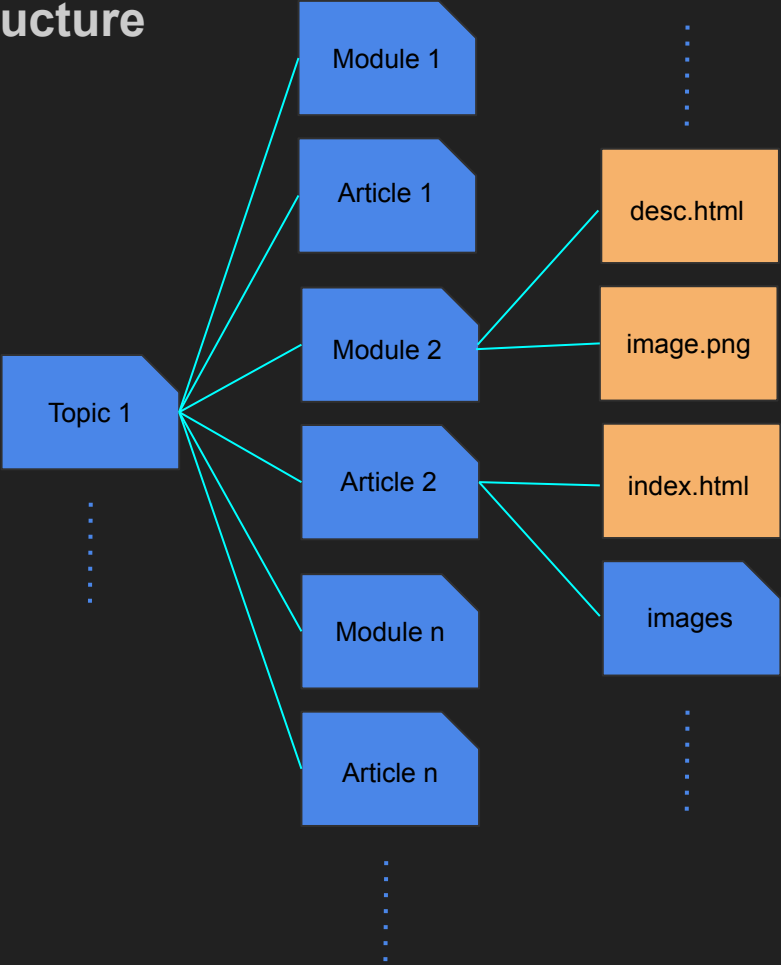


Front-End Prototype Overview

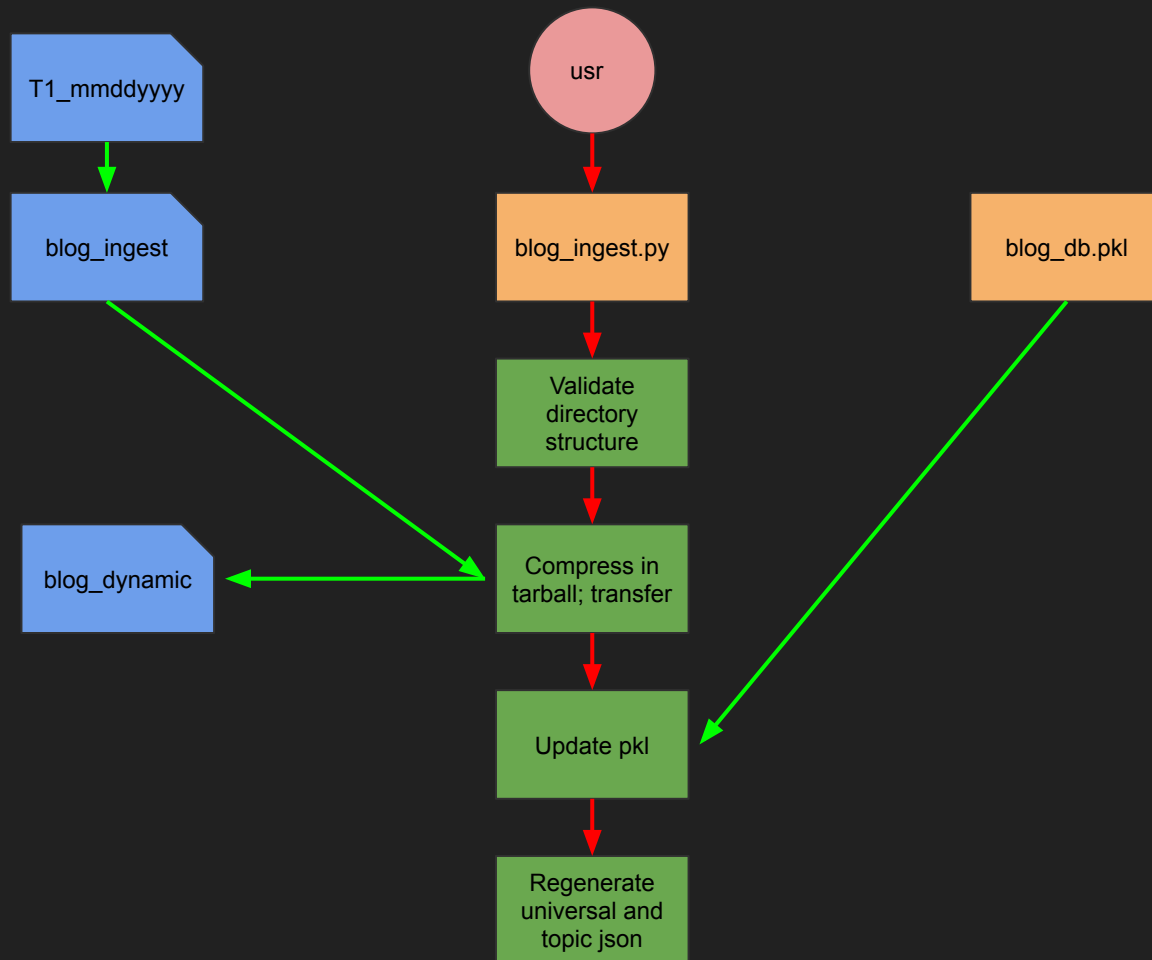
- Dark blue and grey color scheme
- Static background image
- Scroller for spotlighting specific articles
- Research Topics list to choose a category
- Articles appear as modules, which link to the article's dedicated page
- Possible infinite scrolling
- Mobile-friendly design



Proposed Directory Structure

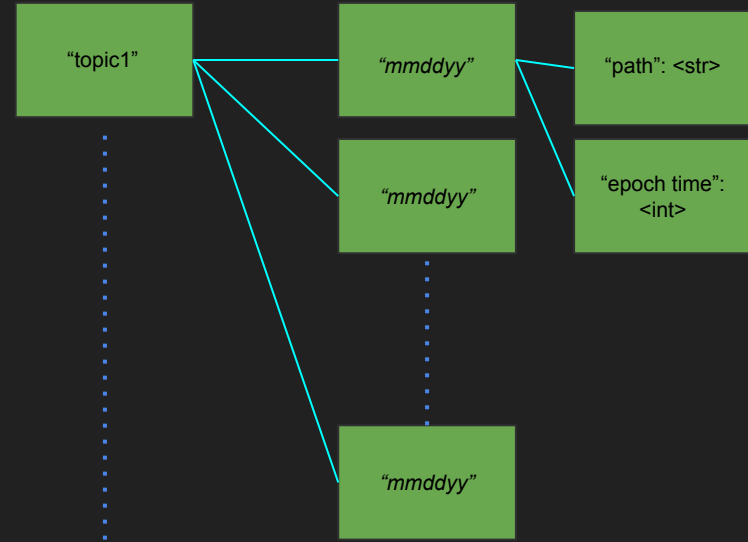


Blog Publishing Process I



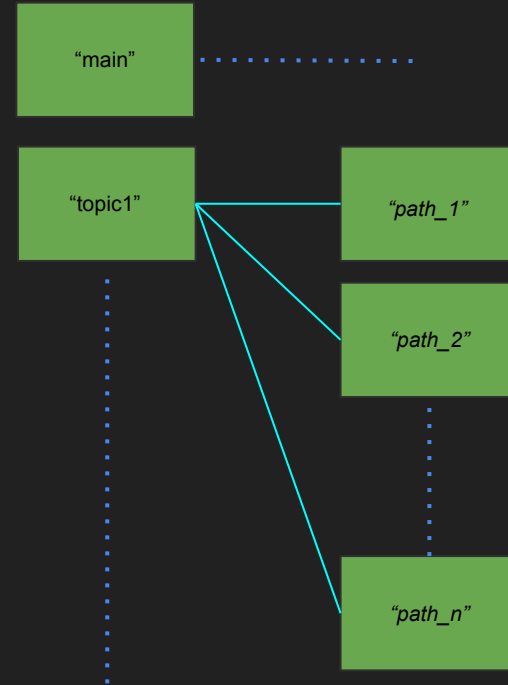
Article Upload Database (python pickle)

- Dictionaries of uploaded articles arranged by topic
- Uploaded articles are indexed by their upload date
- Each article is stored as a dictionary of their directory path and specific time of upload
- Articles will be easy to search and retrieve

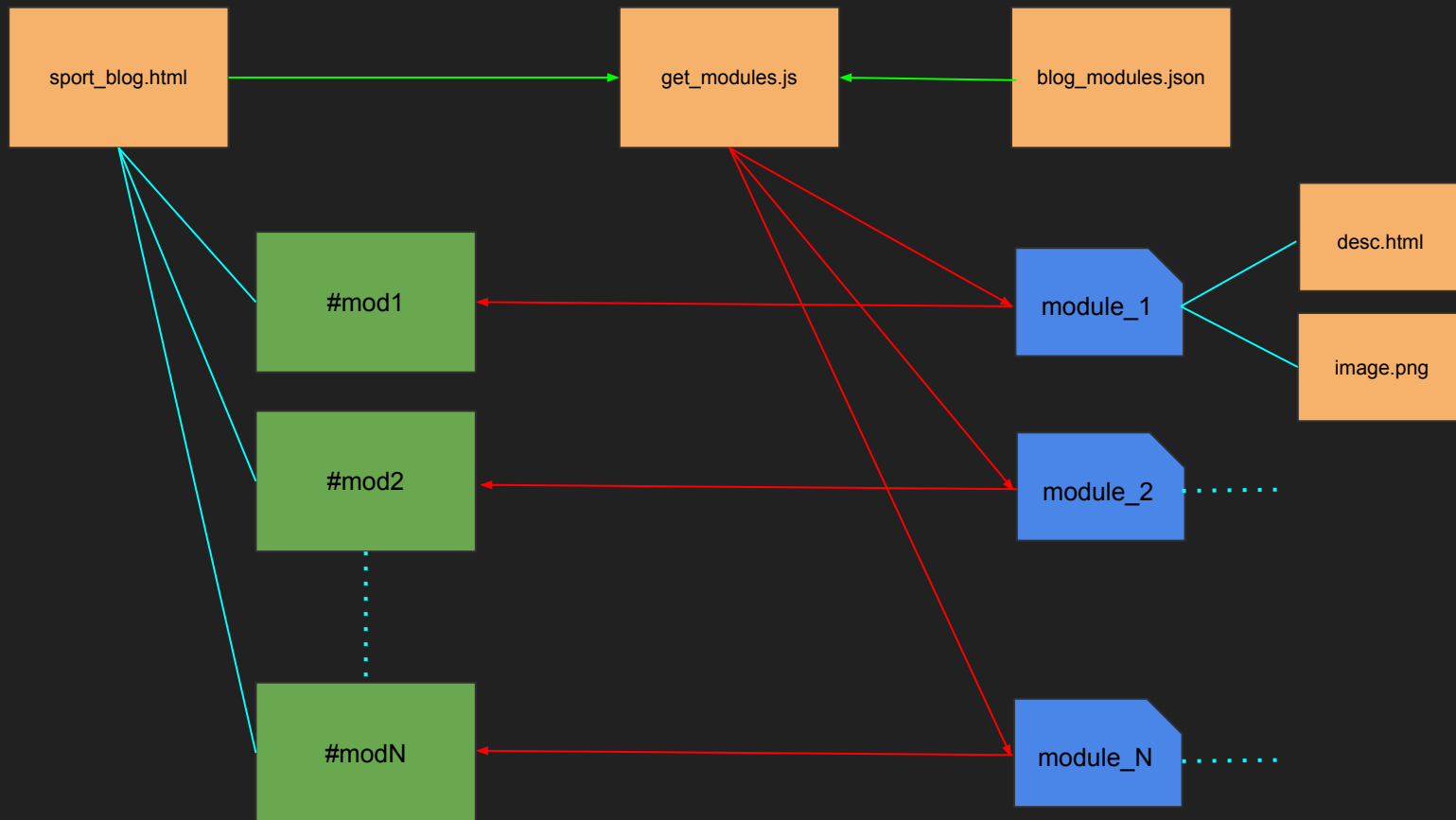


Module Index (json)

- JSON - format file, regenerated upon new article upload
- Each topic has its own ordered array of paths to articles (most recent first)
- Landing page uses AJAX load to associate each module with a id tag



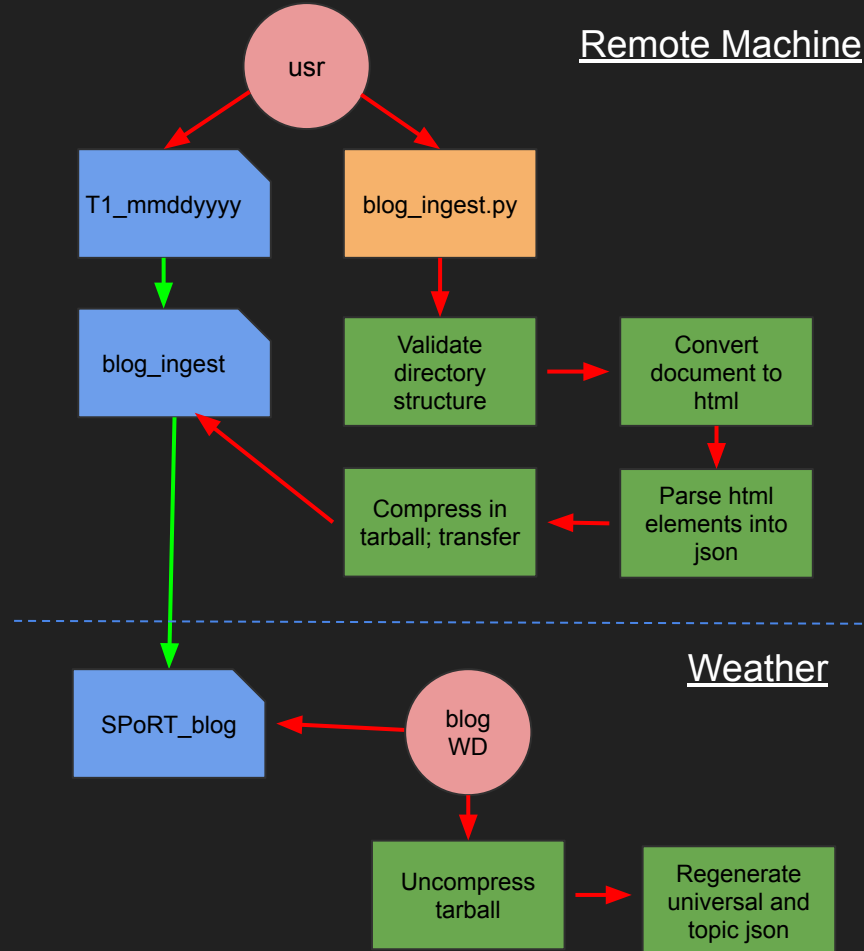
Module creation process



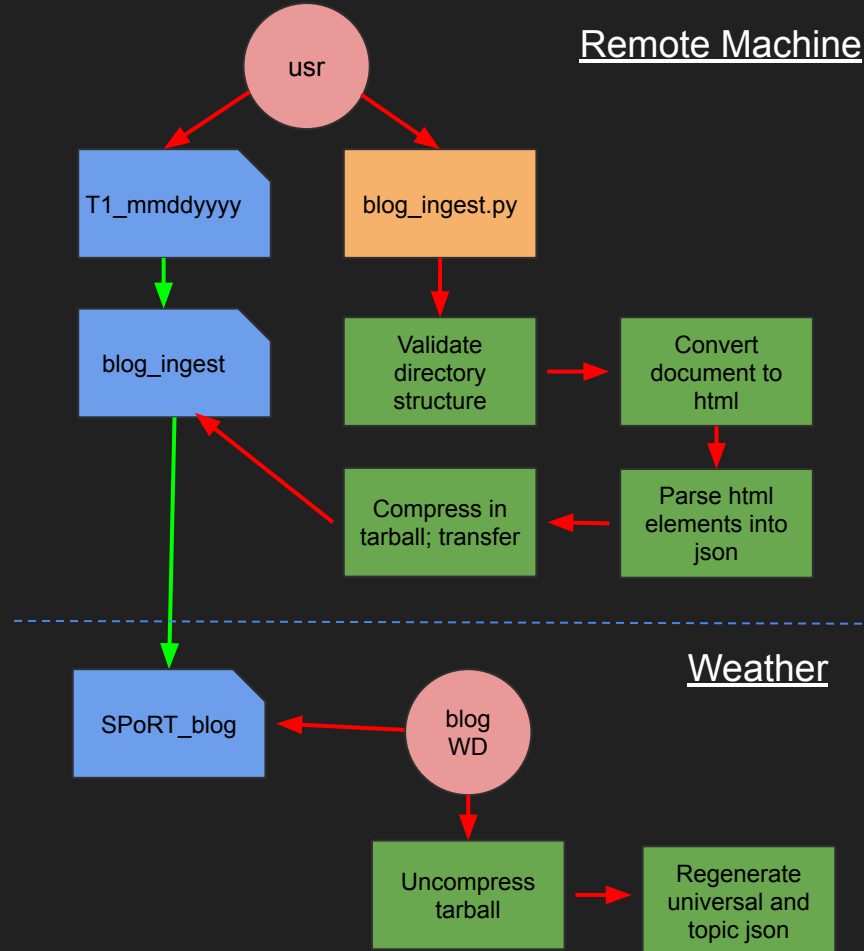
Problems to address

- Infinite scrolling may increase load time and make homepage difficult to navigate
- JSON array lengths will get very long if not split up
 - If JSON files are split up, multiple files will have to be regenerated per-ingest
- User is responsible for running ingest script (in order to handle format errors)
- Current file naming scheme makes it difficult to find a specific article based on subject
- Accidently removing pkl file would be pretty tragic. (backup method?)

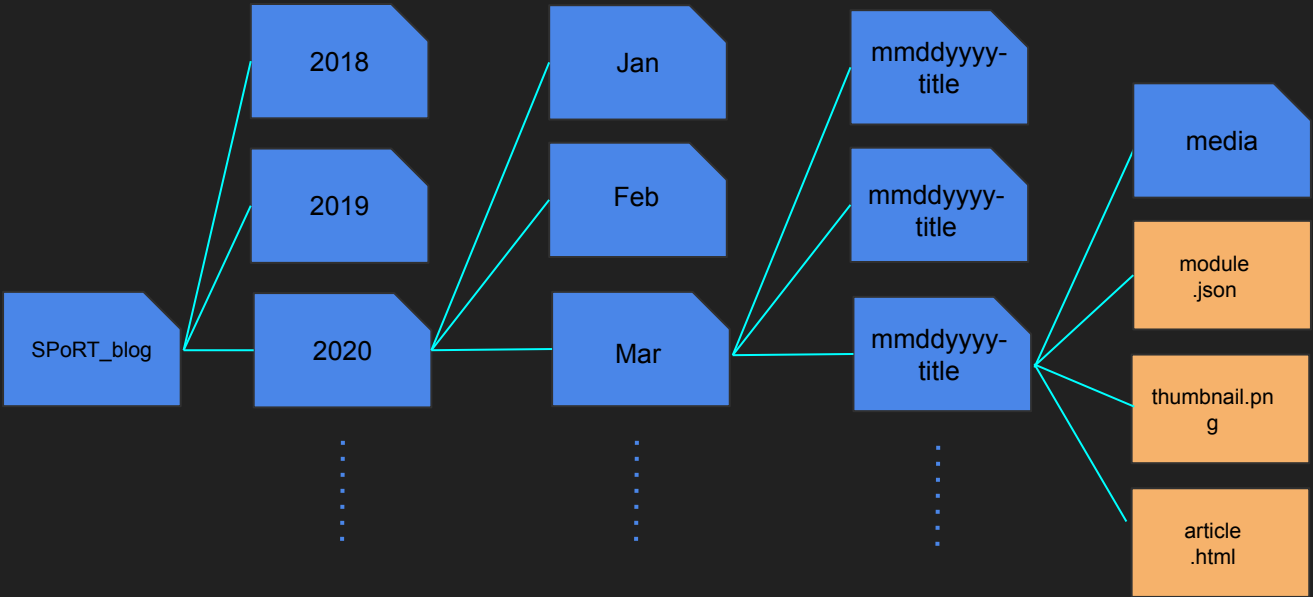
Blog Publishing Process II



Blog Publishing Process III

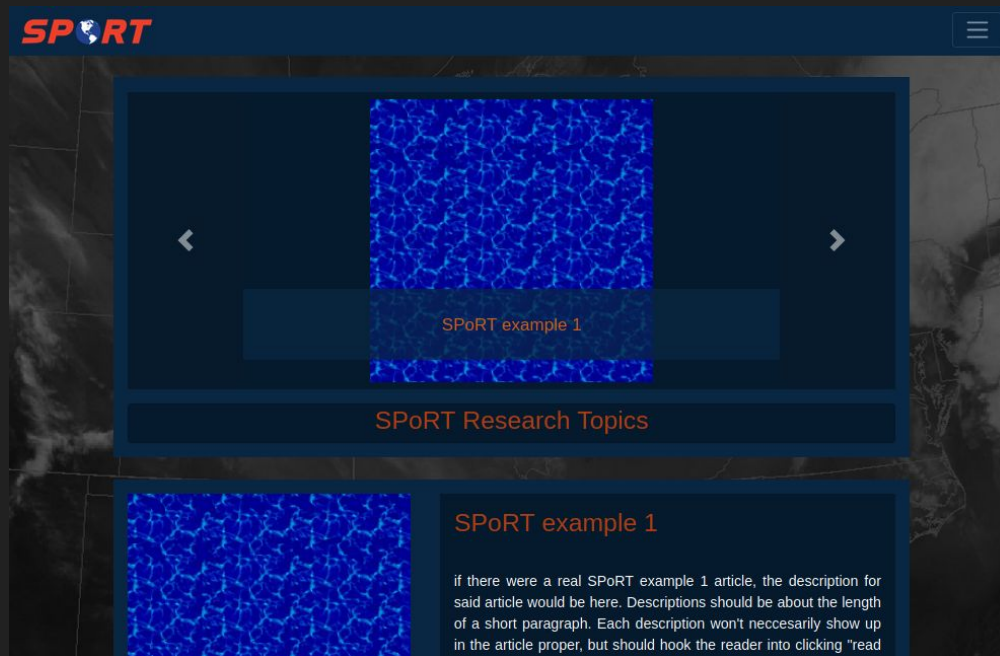


Proposed directory structure



NASA SPoRT Blog System

technical abstract presentation of module creation



SPoRT Blog

- Facilitates communication of interesting research results.
- Allows better organization of outreach events
- Educates the public on Earth Systems and Atmospheric Science.
- Spotlights graduate students and their thesis projects.

Blog Software Divisions

Frontend

1. Search features
2. Article modules

Backend

1. Database system and tools
2. **Module creation process**

(this video)

Publishing

1. Publishing CLI
2. Remote machine package
3. Web server package

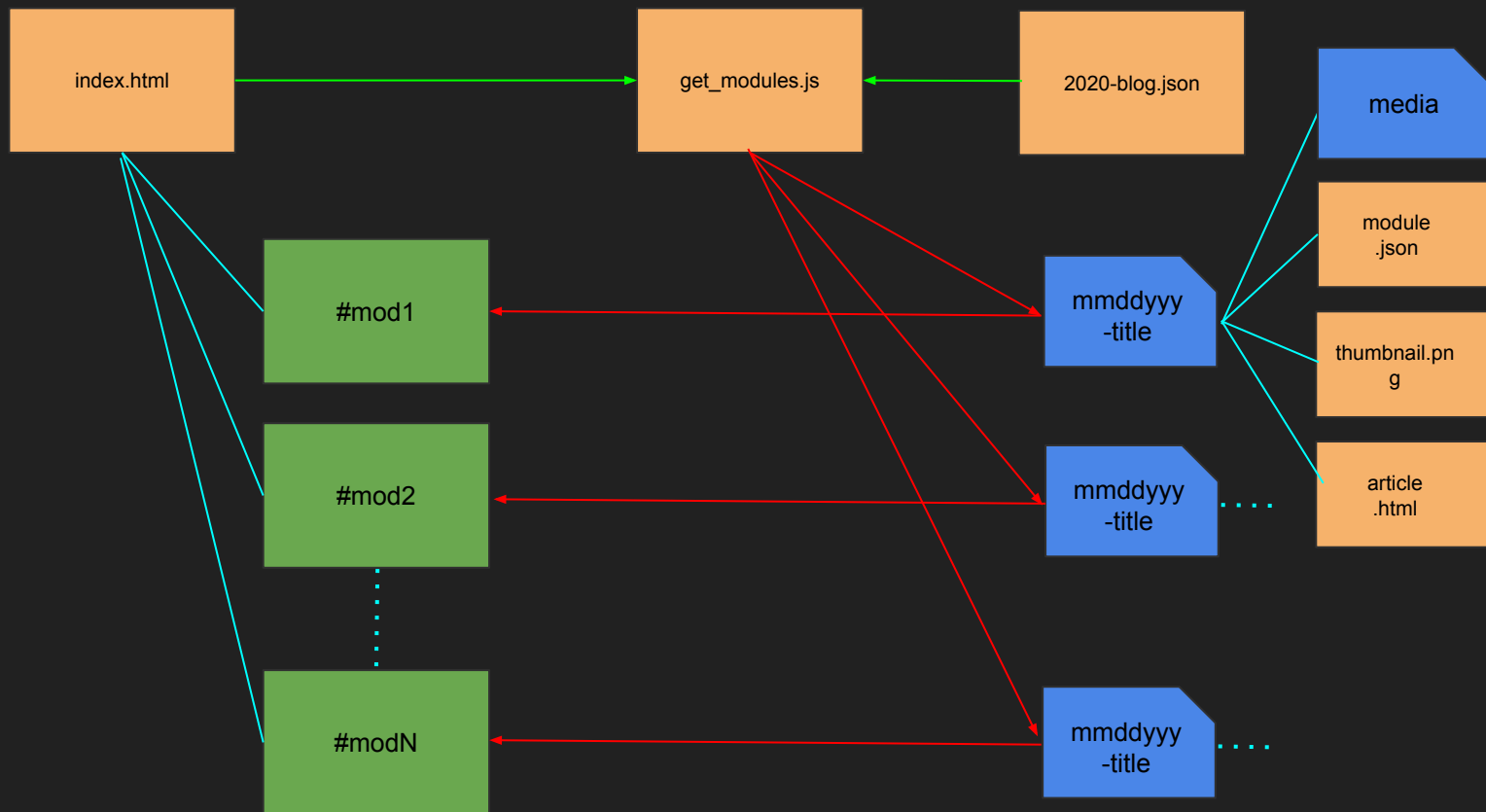
Blog Module Example

SPoRT example 1

if there were a real SPoRT example 1 article, the description for said article would be here. Descriptions should be about the length of a short paragraph. Each description won't necessarily show up in the article proper, but should hook the reader into clicking "read more"

[Read More >>](#)

Module Fetching Process





Blog Publishing Process III

