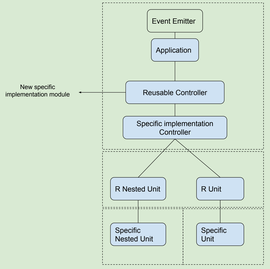
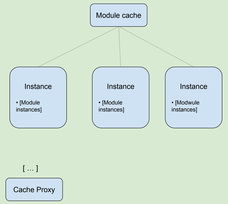
Node Context

- Load modules
  - Create koa server
  - Add event listener (add static class to Application cache)
- Add event listeners
  -
- Initialize Application
  - Connect to database
  - Run event listeners:
    - Initialize database content
    - Port server:
      - Nested unit module new cache instance.
      - Apply koa middleware
        - New instance of nested unit.
      - Create http server

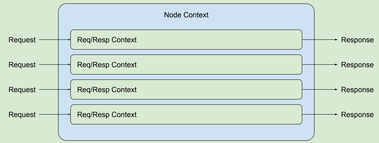
Application class tree structure



Caching a static module - e.g. a module of function that returns a static class.



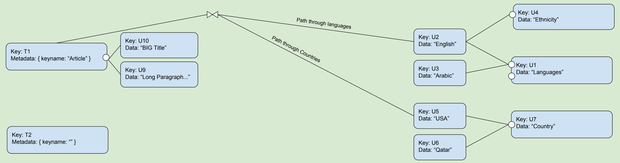
Create a context for handling each request



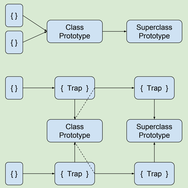
Content

Schema --> resolver functions to fetch database.
Writing api as a series of type definitions and attaching resolvers/functions to each one.
Relational query - instead of hitting/calling 2 apis the data could be retrieved by a single call. Sort of combination of queries/collections/documents into a single trip. GraphQL makes it flexible.

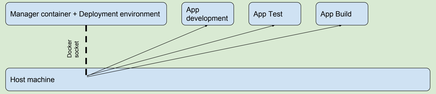
- Creating entrypoints for data
- Define unit structure of data which has mapping keynames to data
- Validation of data types and structure.



Application class tree structure



Container manager



Schema field picking/filtering:

Nested Unit execution result:

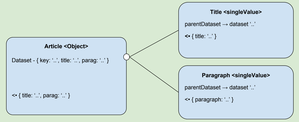
Fieldname: 'article'
Dataset: { paragraph }
Subsequent: [Level 1
{
Fieldname: title
Dataset: { title }
Subsequent: [Level 2
{
Dataset: { short }
}
{
Dataset: { long }
}
]
}
{
Dataset: paragraph
Subsequent: []
}
]

Request:
localhost/entrypoint/?key=a1
Entrypoint: "Article"
Key: 'a1'

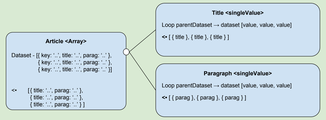
Request body data:
{
Fieldname: article
subfield: [Level 1
{
Fieldname: title
subfield: [Level 2
{ short },
{ long }
]
},
{ paragraph },
{ array... }
],
Extrafields

Request close to GraphQL format:

[Article
Title
Paragraph
Array
]



Array handling Option 1 - deal with arrays in child using parent dataset



Array handling Option 2 - deal with arrays as own dataset
(if dataset is an array execute nested units differently, looping through each object).