

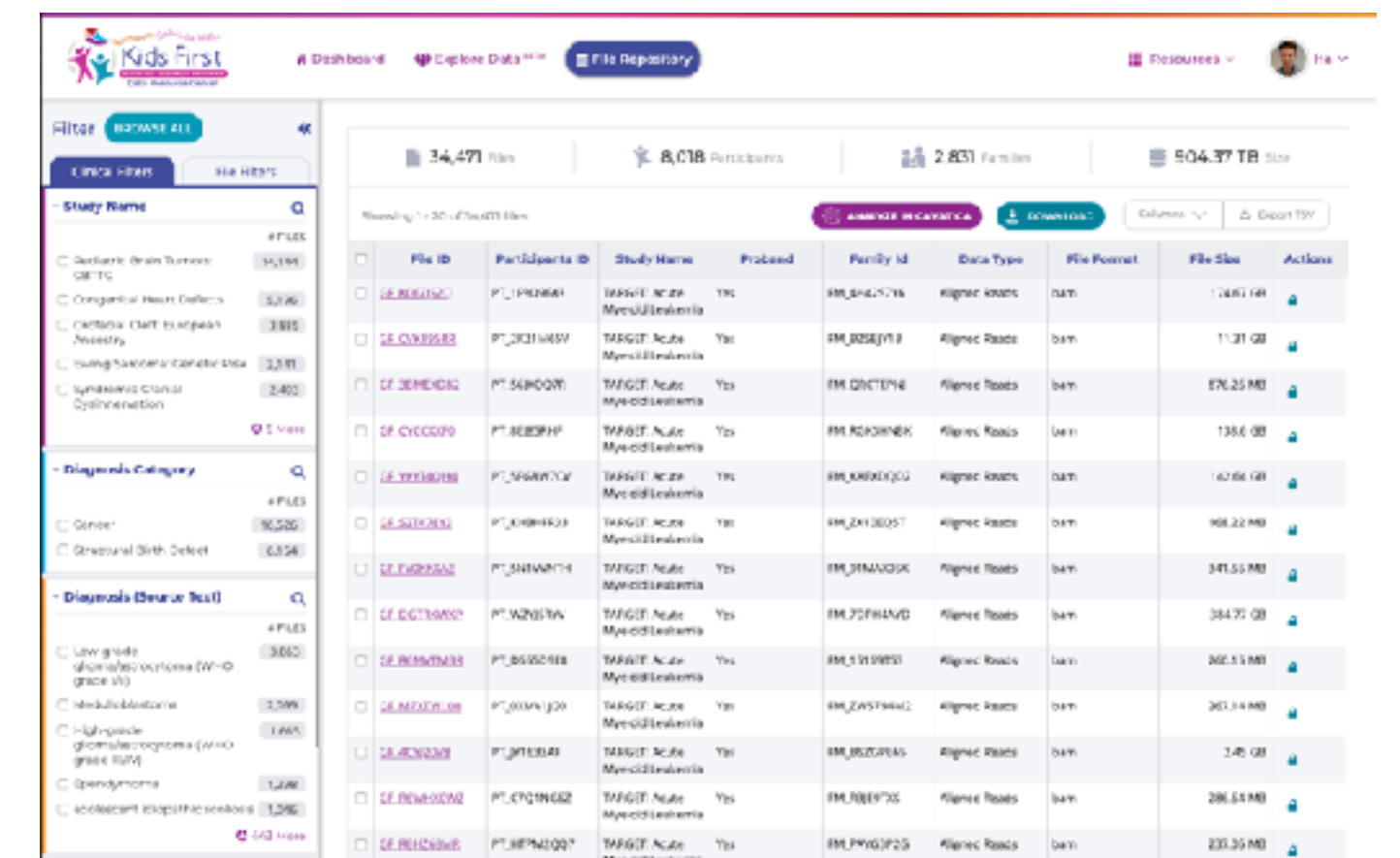
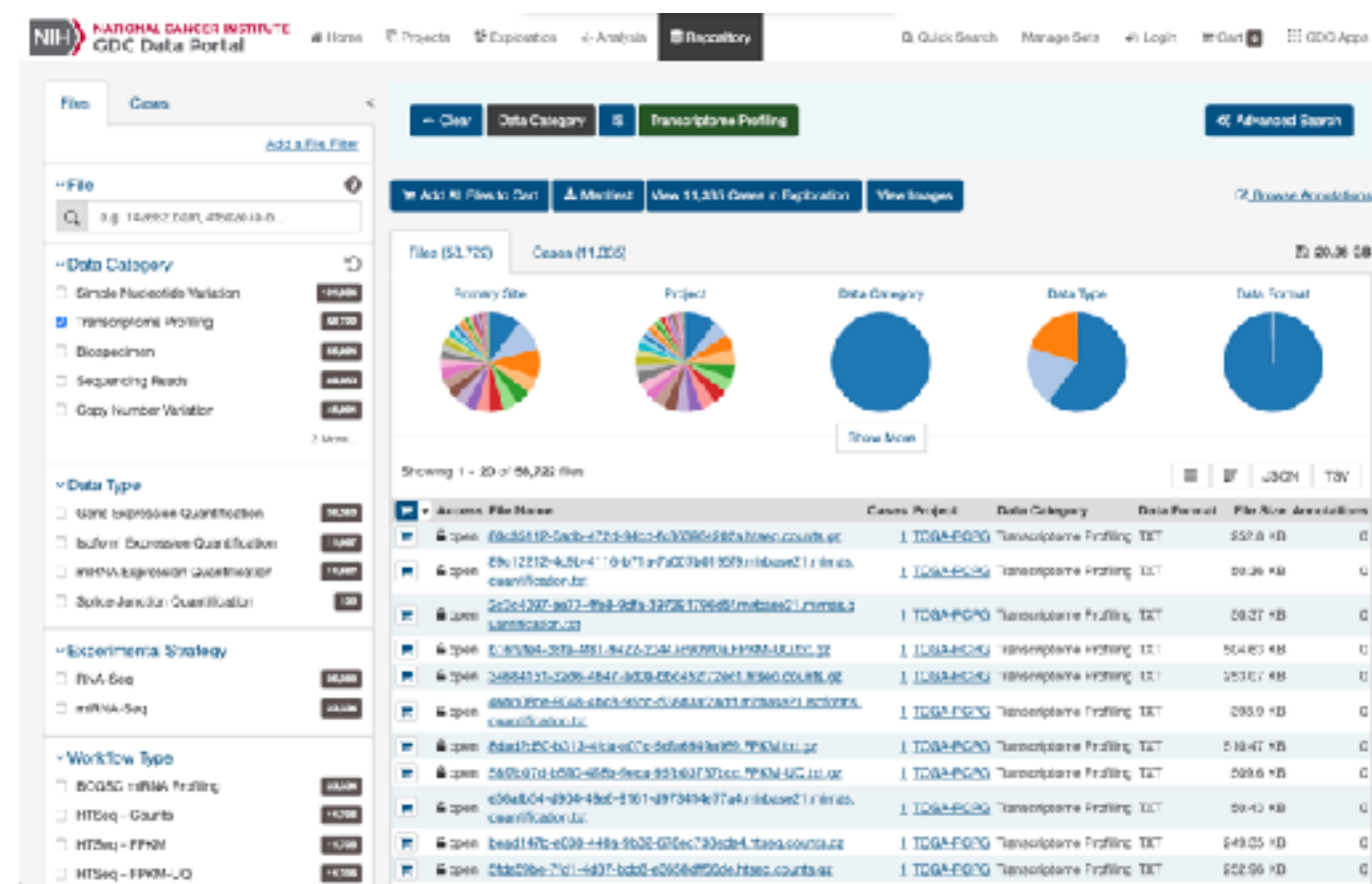
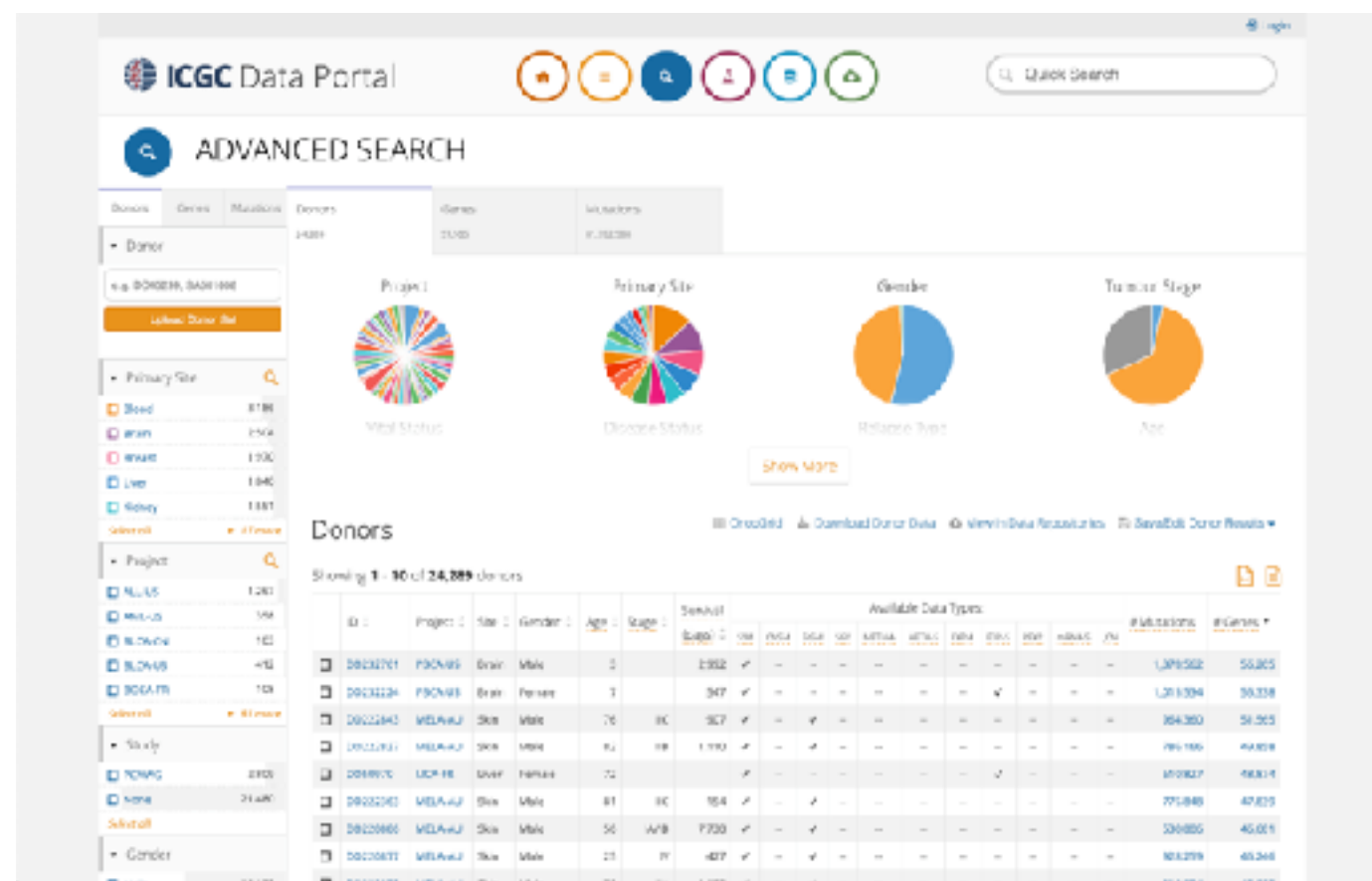
Conquering Micro-services with GraphQL

Our plan for Argo

from  **OICR** **softeng with**
Ontario Institute
for Cancer Research

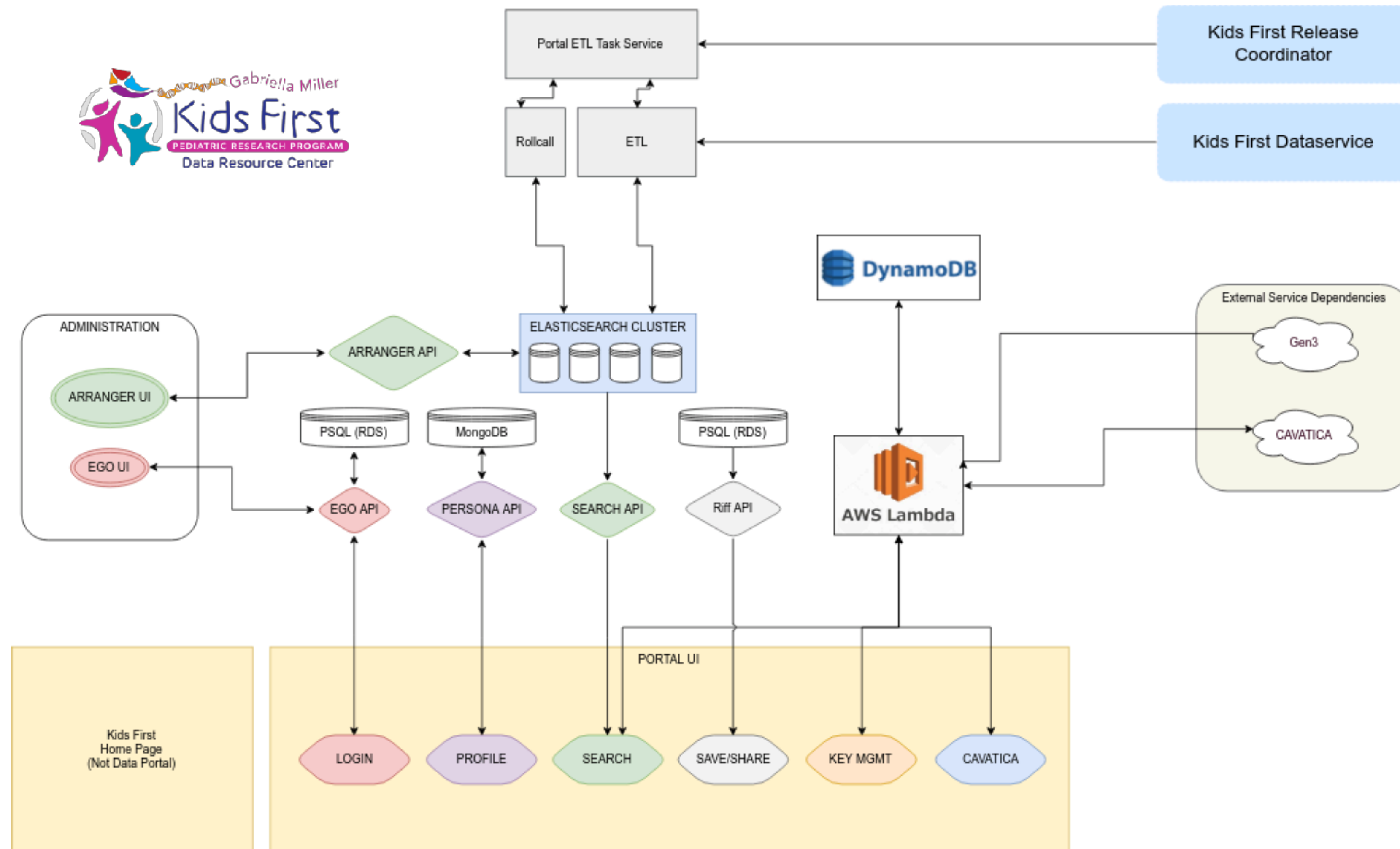


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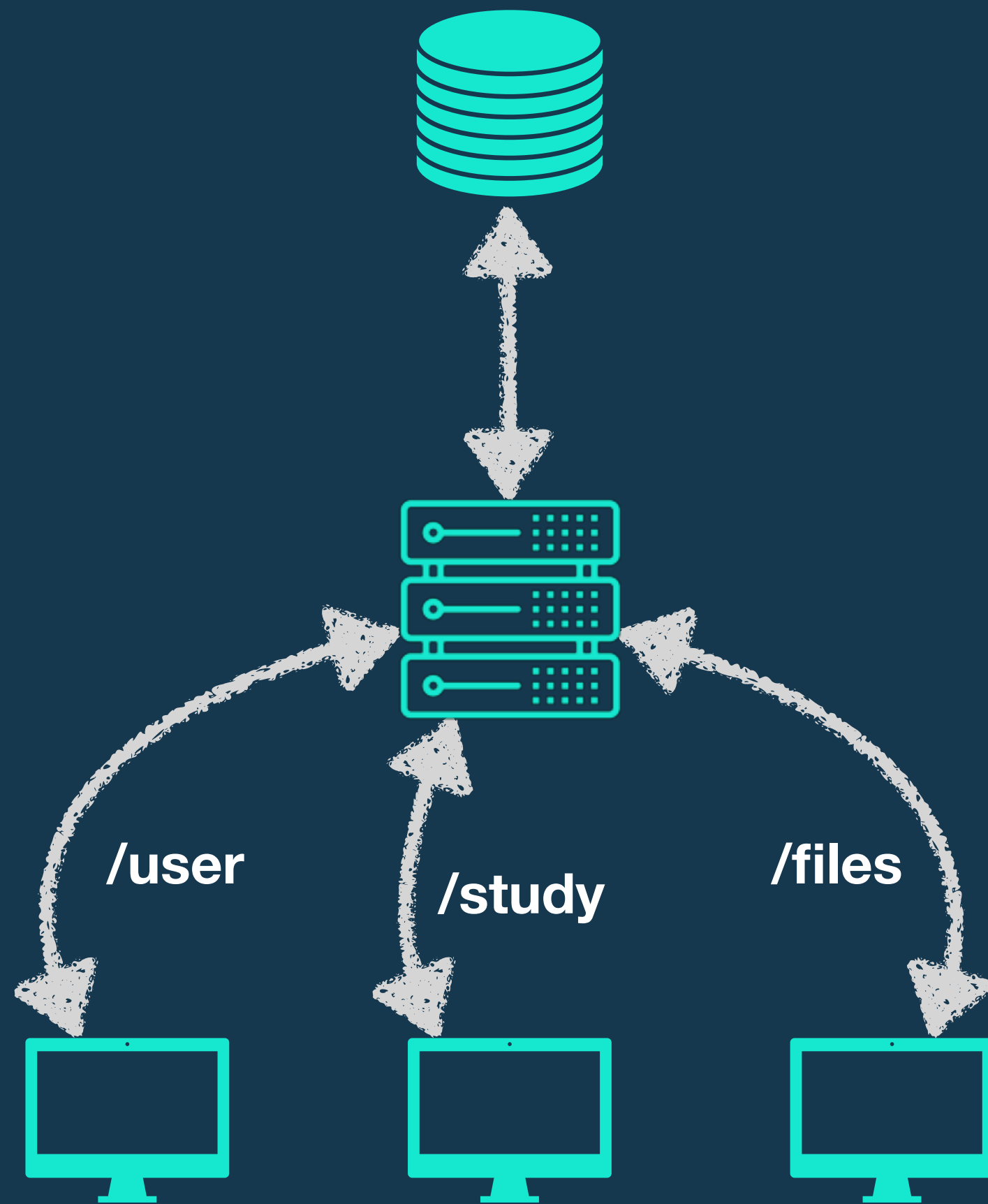


and more...

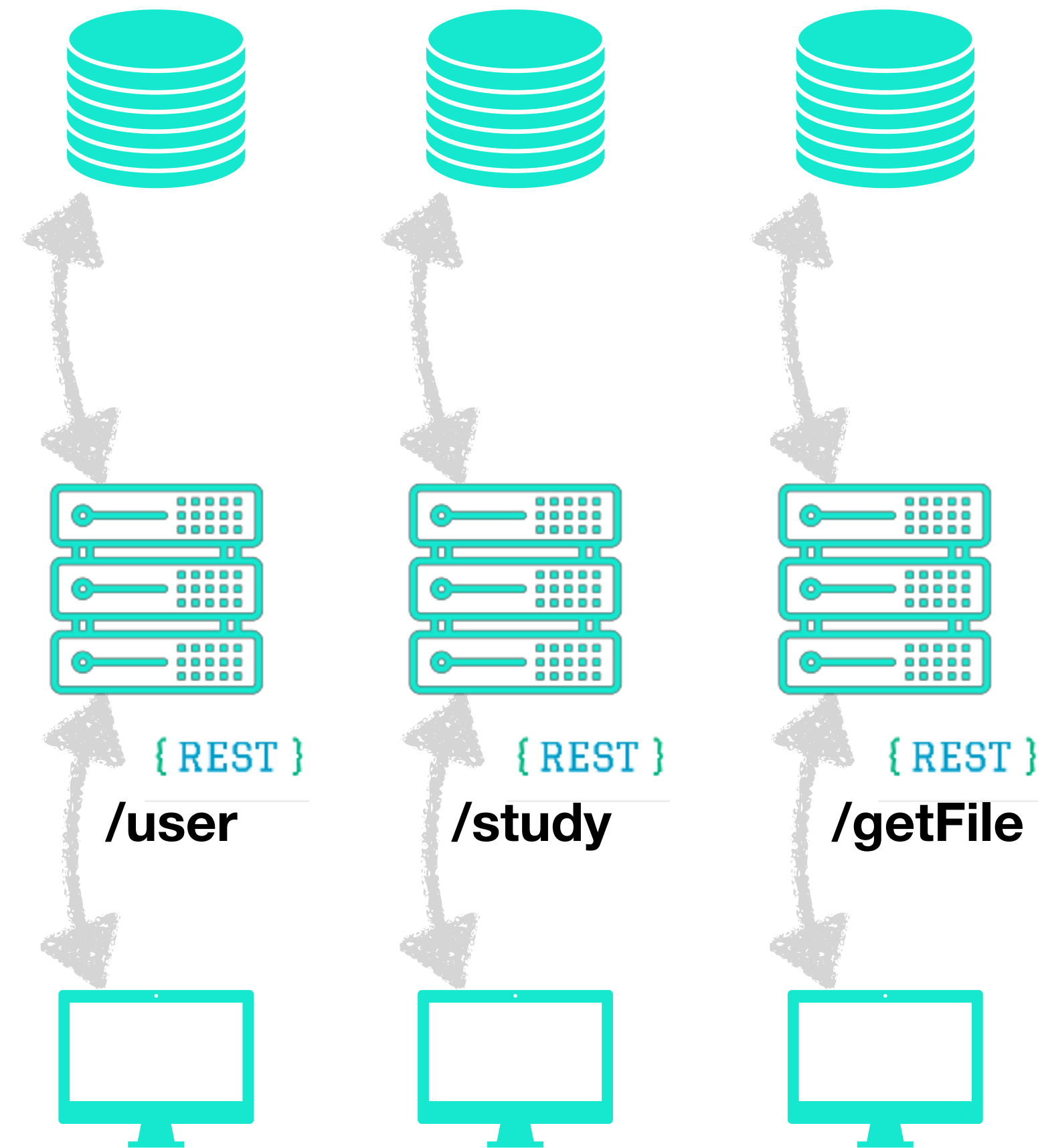
Behind the scene



Monolithic System



Micro-...what?

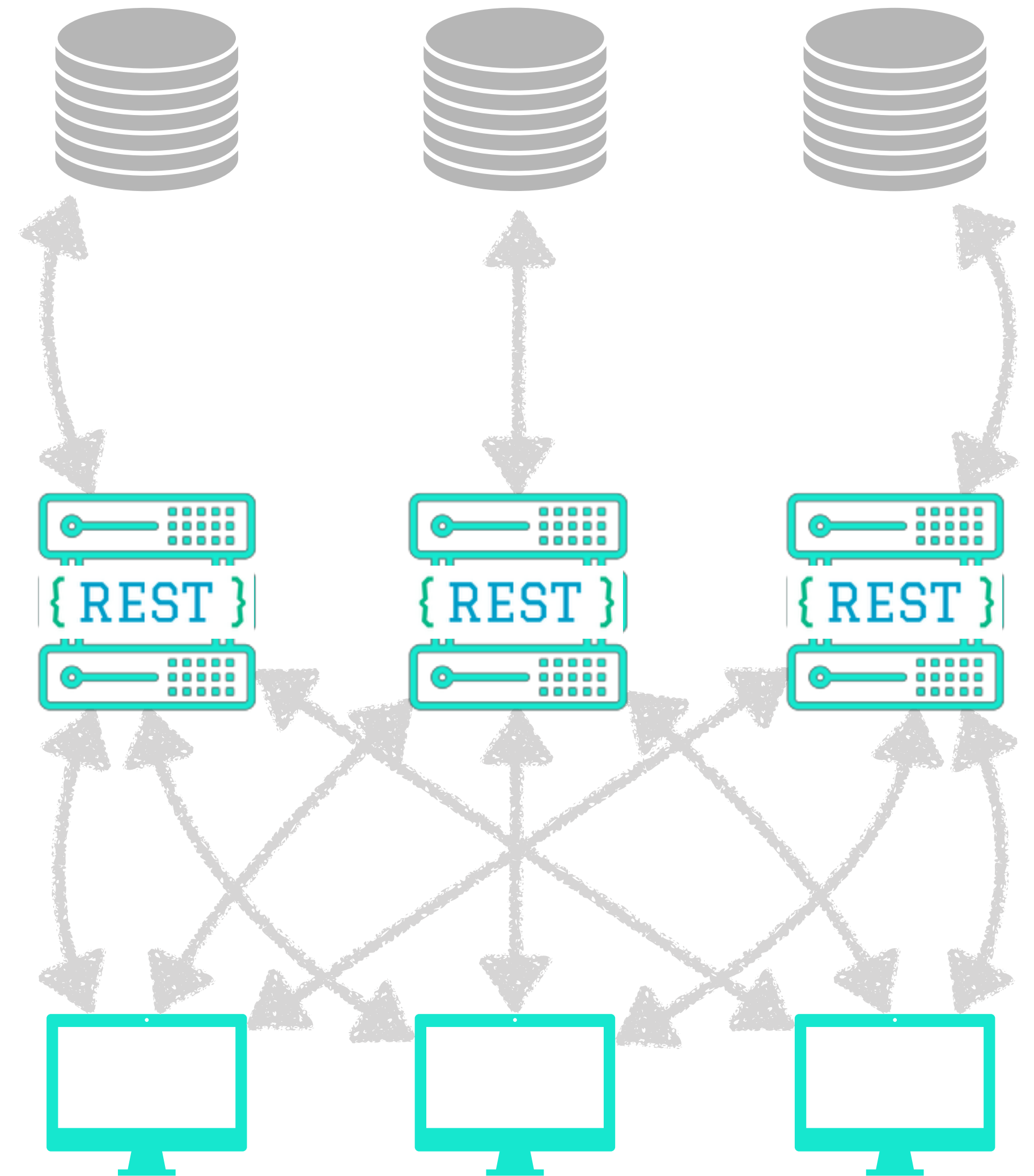


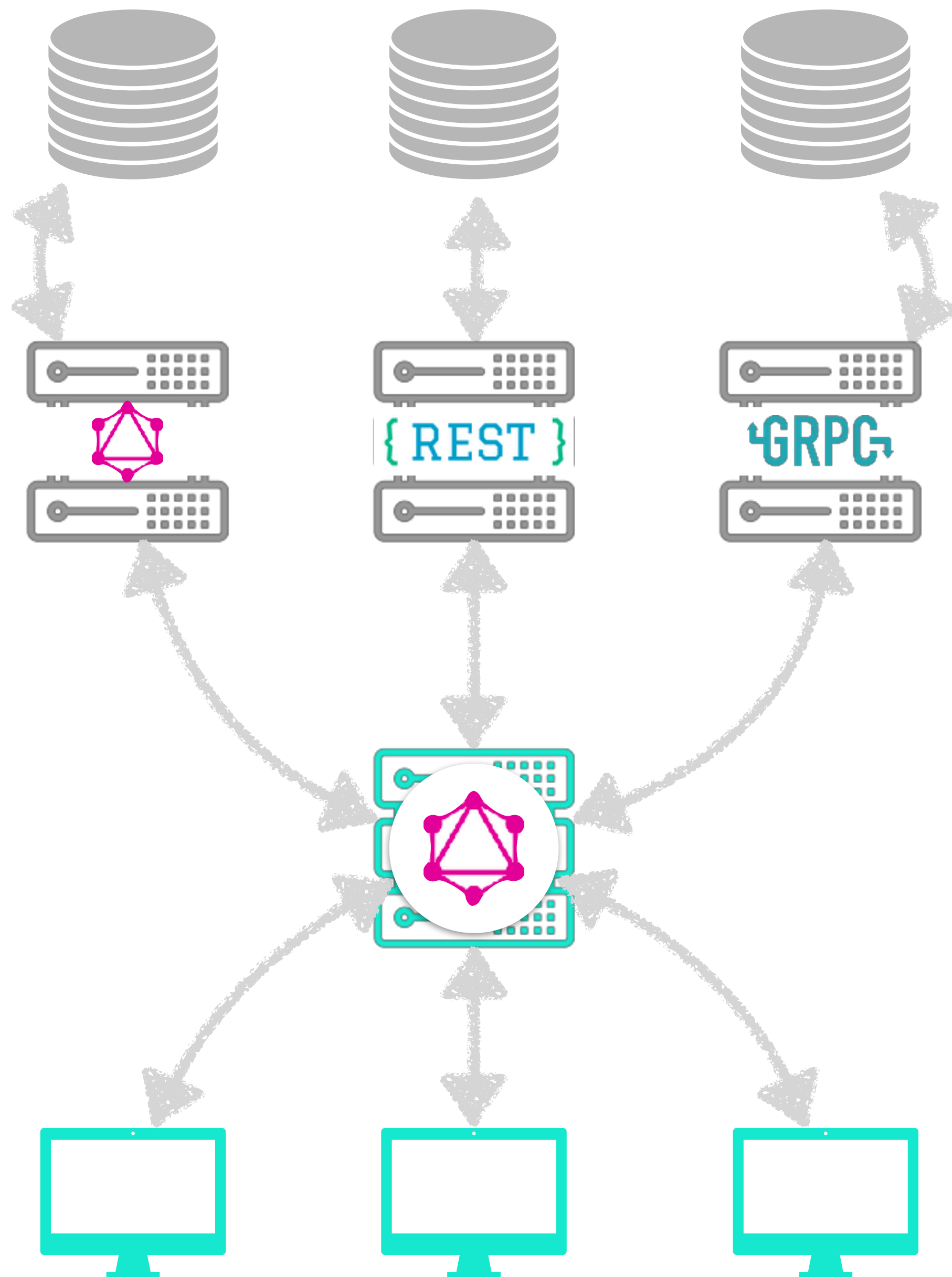
Micro-services System

- Functionally decoupled
- Independently deployable
- Independently scalable

Some challenge

- No place to handle cross-cutting concerns
- Front-end handles heavy business logic
- Inefficiencies with **REST**:
 - Over & under-fetching
 - Lack of API schema -> manual documentation

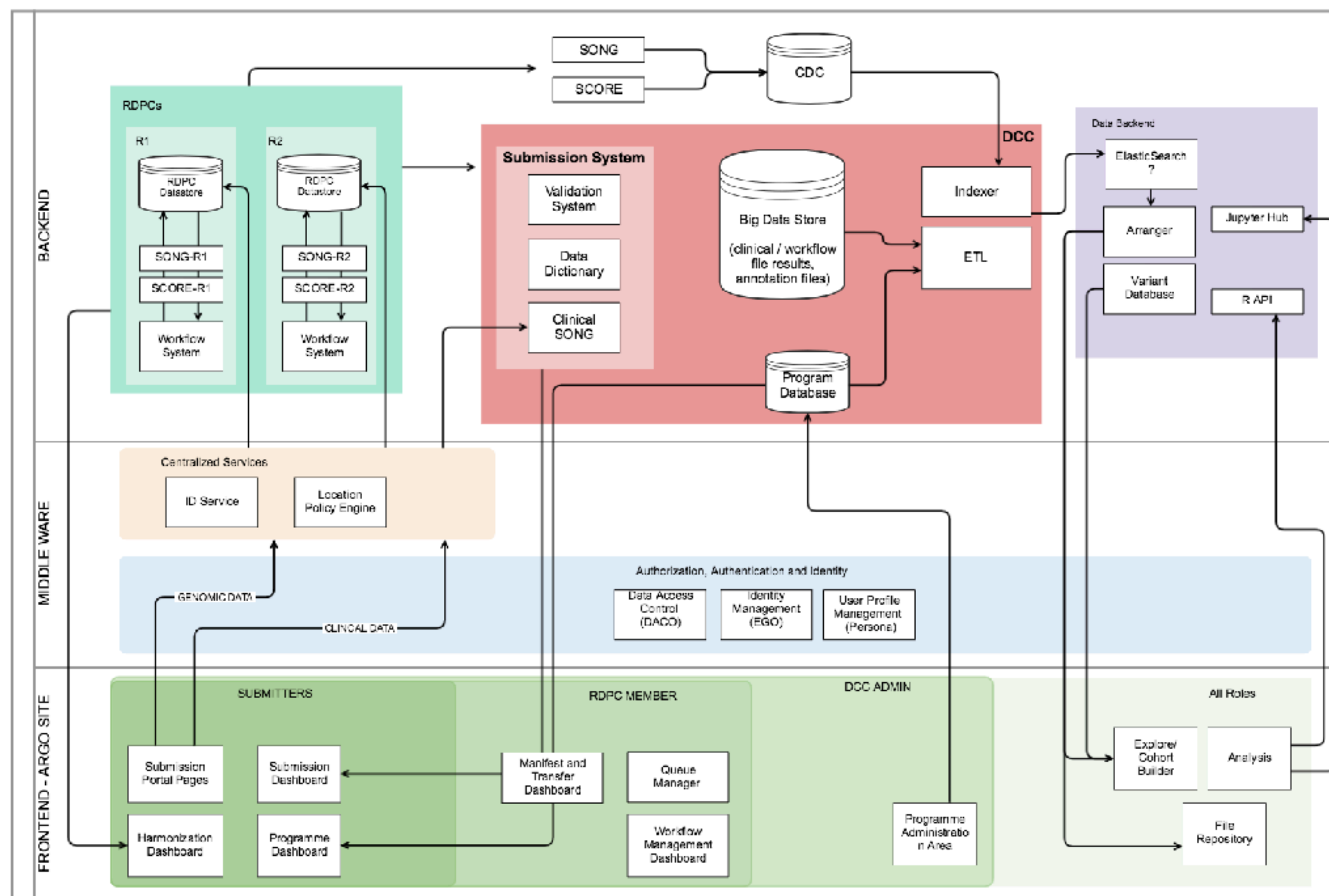




The GraphQL Solution

- An **aggregation layer** to handle cross-cutting concern
- **Why GraphQL?**
 - Explorable schema —> self-documenting
- **Schema Stitching:**
 - Modelling underlying services as an independent schemas
 - “Stitch” the schemas together as nodes in a graph
 - Network advantage: batched request

BRACE YOURSELF



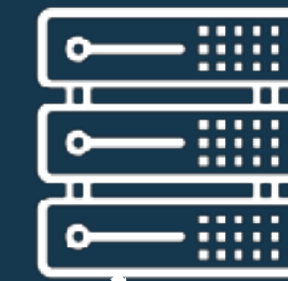
ARGO IS COMING



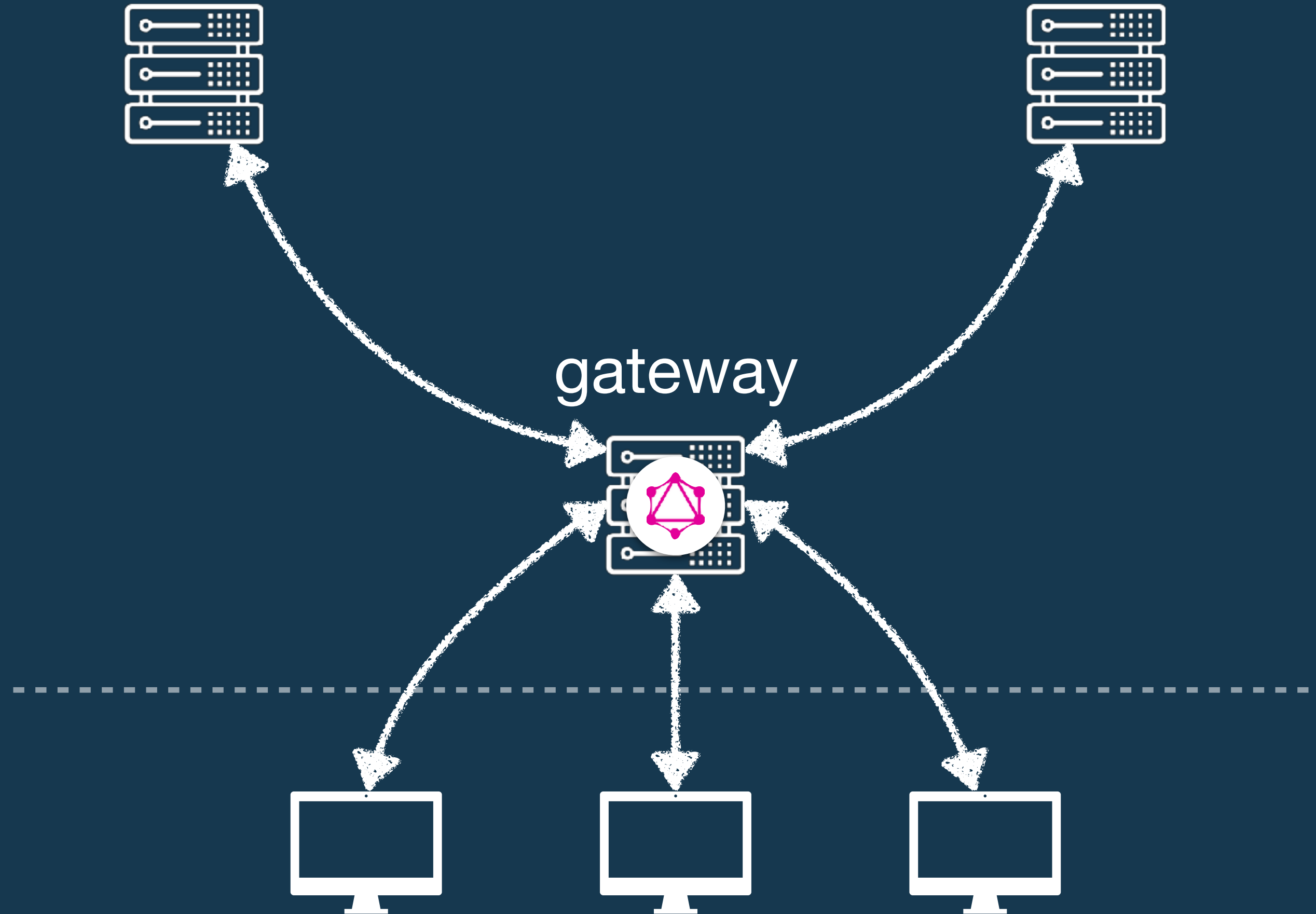
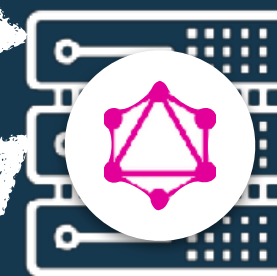
demo

user service

program service



gateway



The wins

- Explorability:
 - Better developer on-boarding
 - Collaboration with non-technical team members
- Central place for integration test —> higher quality software
- Network performance

thank you