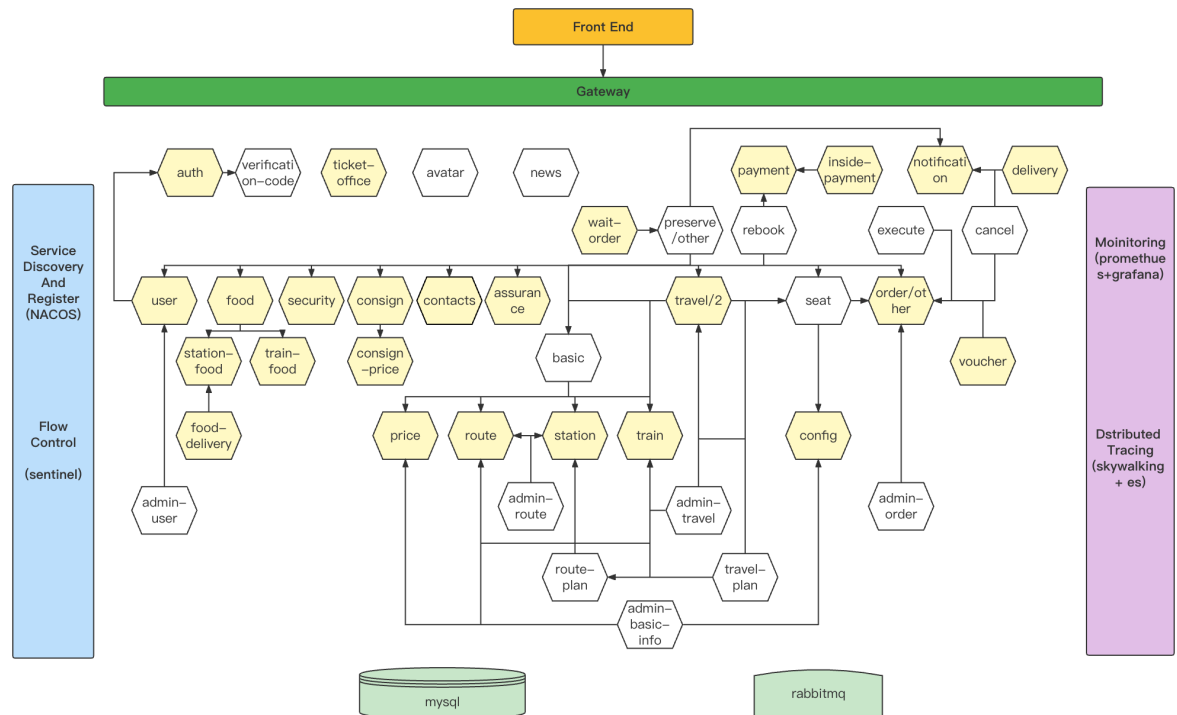


Home Exercise - Backslash

- The attached JSON file represents a full, working graph of Train Ticket micro-services and the relations between them:

<https://github.com/FudanSELab/train-ticket>



Assignment Description

- The mission, should you choose to accept it, is to load the attached JSON file and build a basic query engine on top of it.
- Create a RESTful API for querying the graph you have created:
 - The API should return a graph structure, that can be easy to render in a client side application.
 - The API should provide a way to filter the routes between the services, including:
 - Returns only routes that ends in Sink (rds/sql).

- Returns only routes that have vulnerabilities.
- Returns only routes that start in a public service (`"publicExposed": true`) and ends in Sink.
- Build the API to be generic as possible, so additional filters can be added easily.

Deliverables

1. A short, written explanation of the planned solution (explaining decisions, assumptions...) in a README file.
2. Link to a git repo with the implementation of the program (written in a language of your choice - Preferably TypeScript)

Good Luck!

Backslash Team.