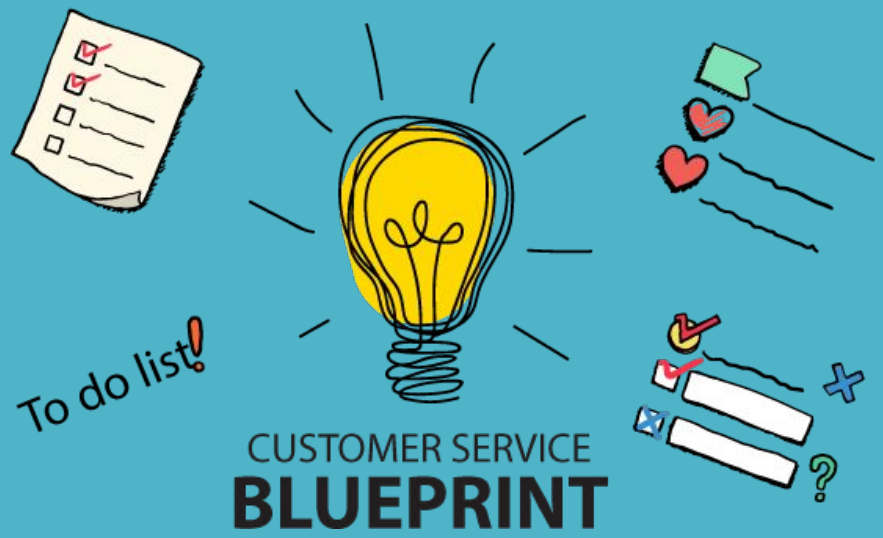
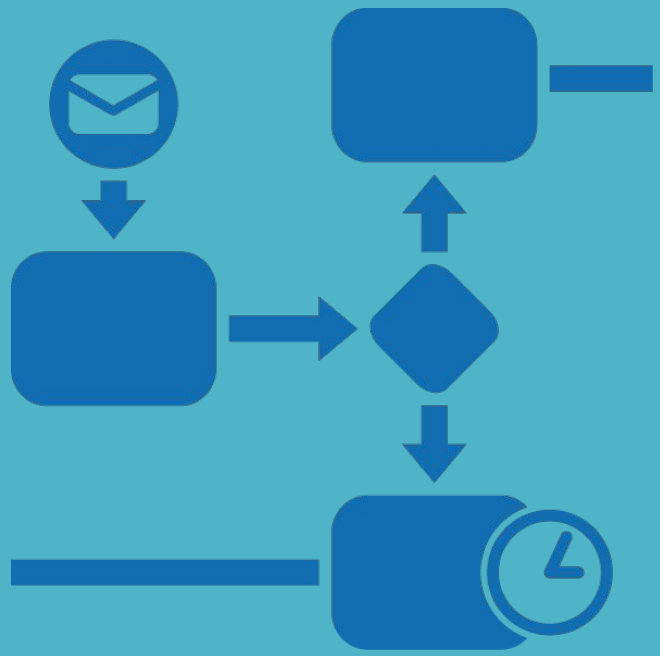
Donothrow

PROCESS AND SERVICE DESIGN PROJECT





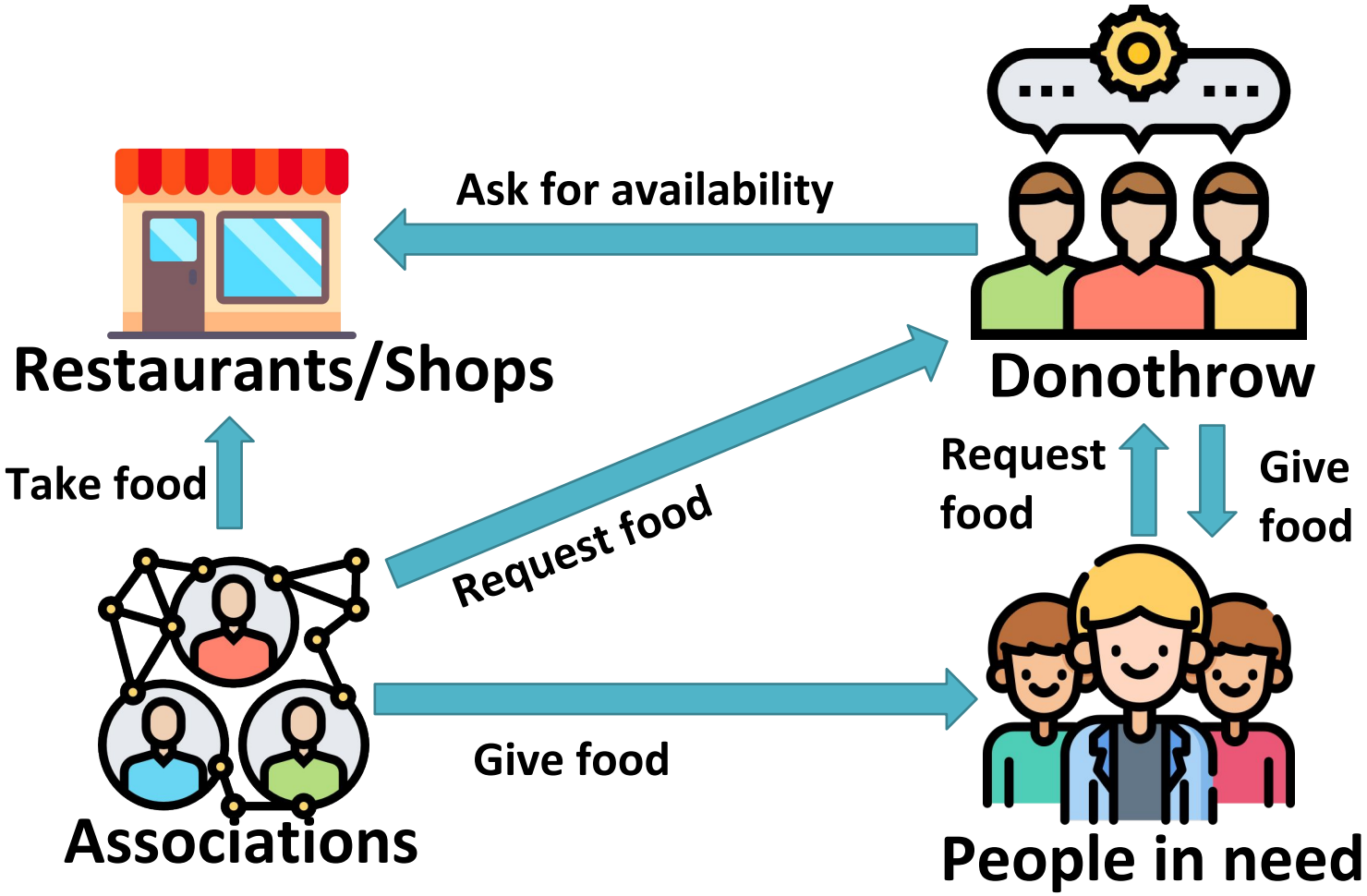
Our service

Our customers

Associations helping people in need

People in need directly

The big picture



Steps

Blueprints

BPMN (High-Level, Choreography, Orchestration)

Process Verification (Petri Nets)

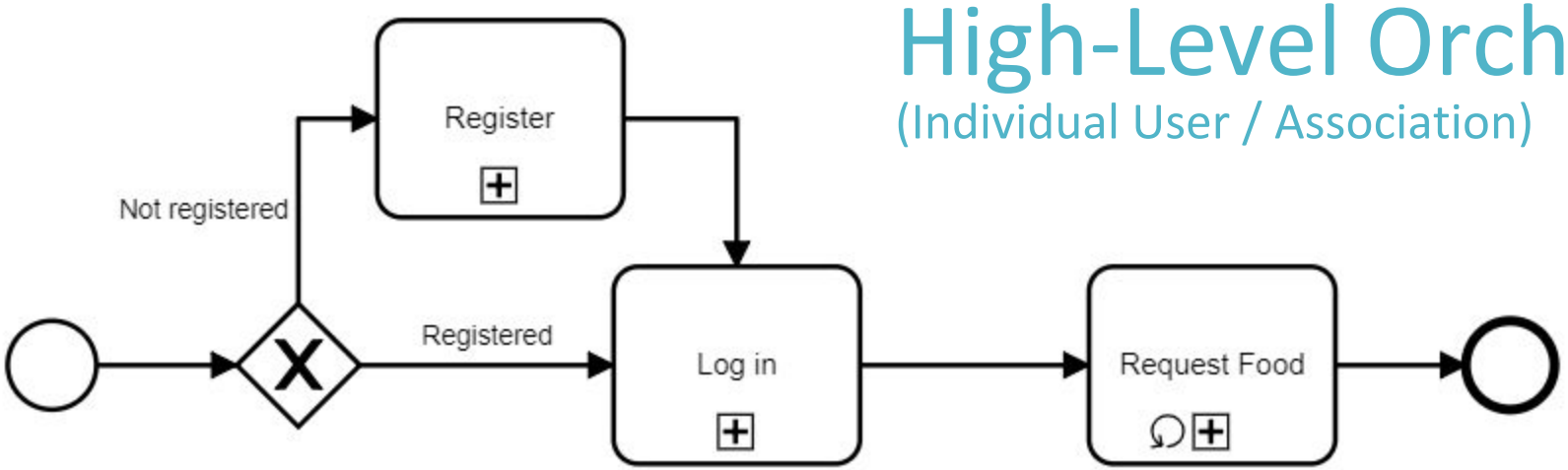
REST API Portfolio Design (Swagger)

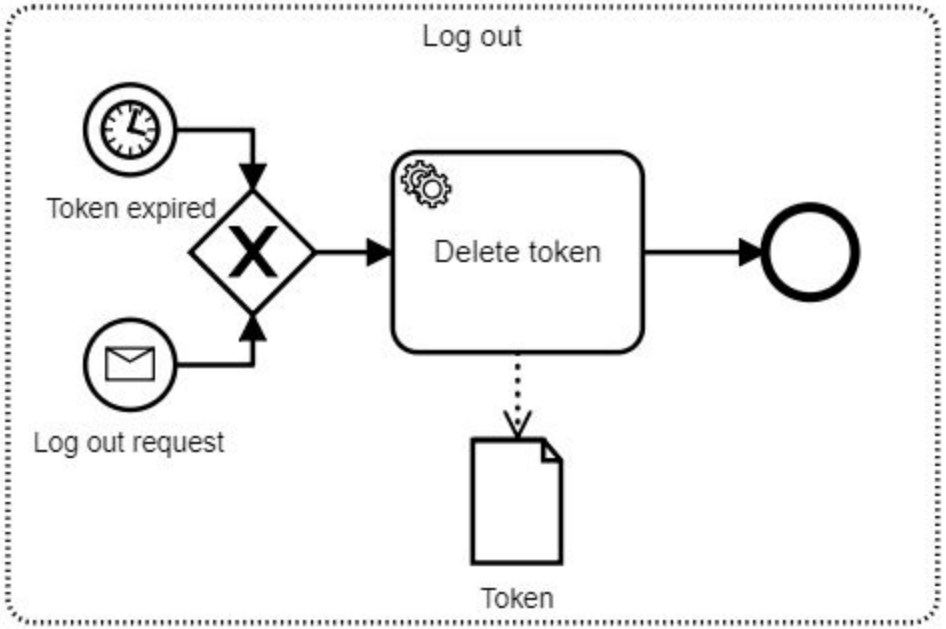
REST API Implementation/Deployement (Node + Heroku)

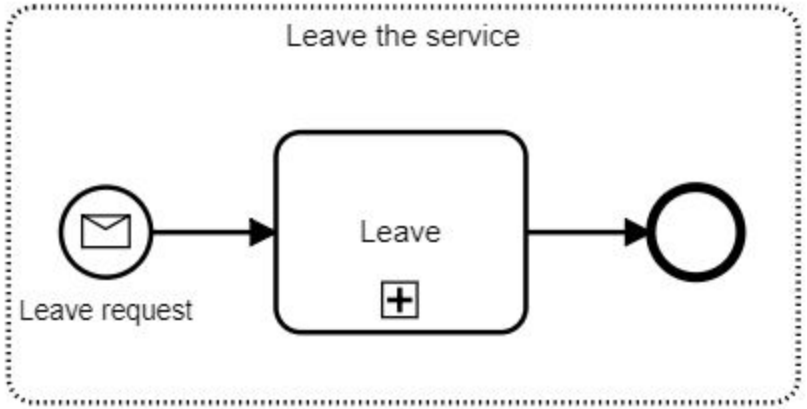
Process Execution (Camunda + Java)

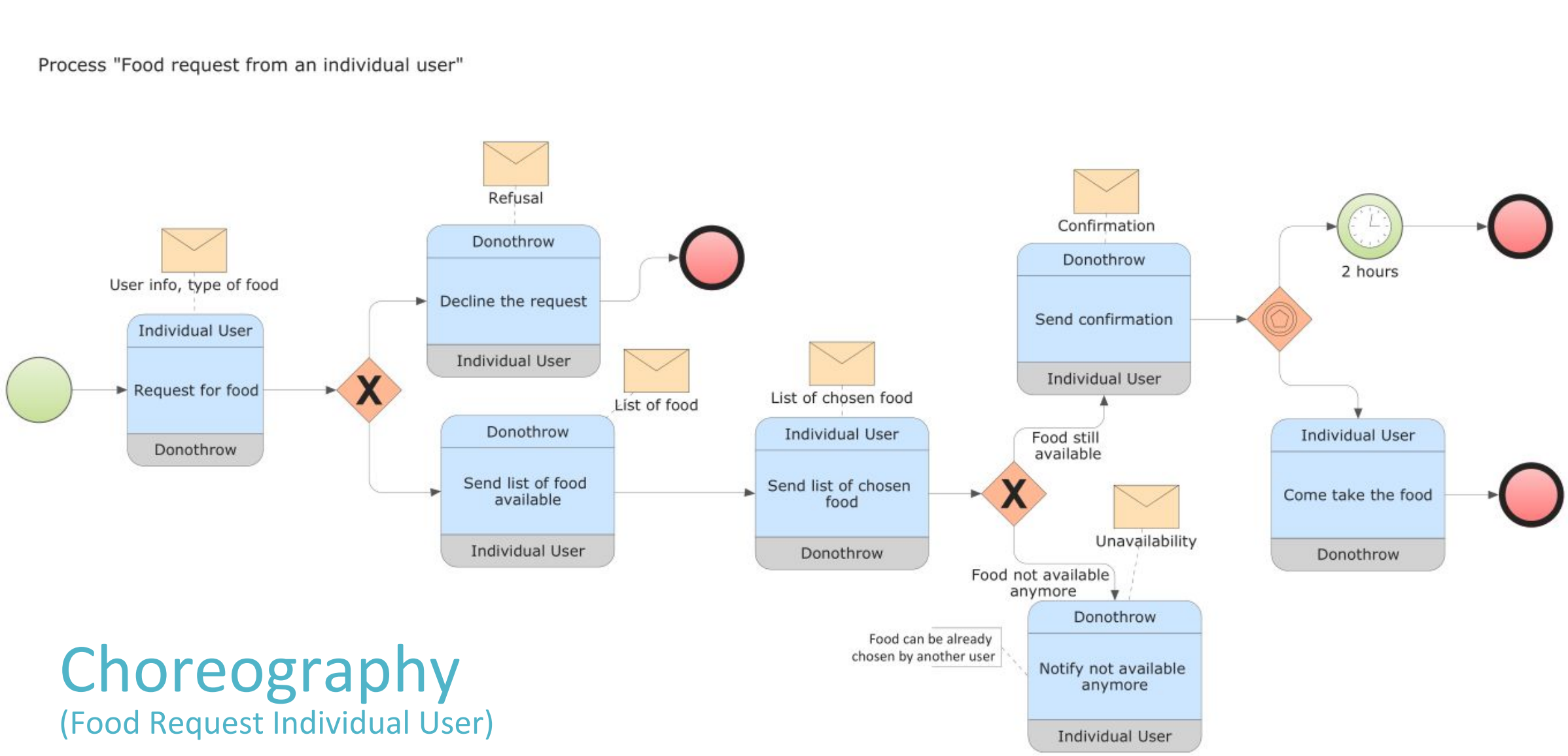
High-Level Orchestration

(Individual User / Association)



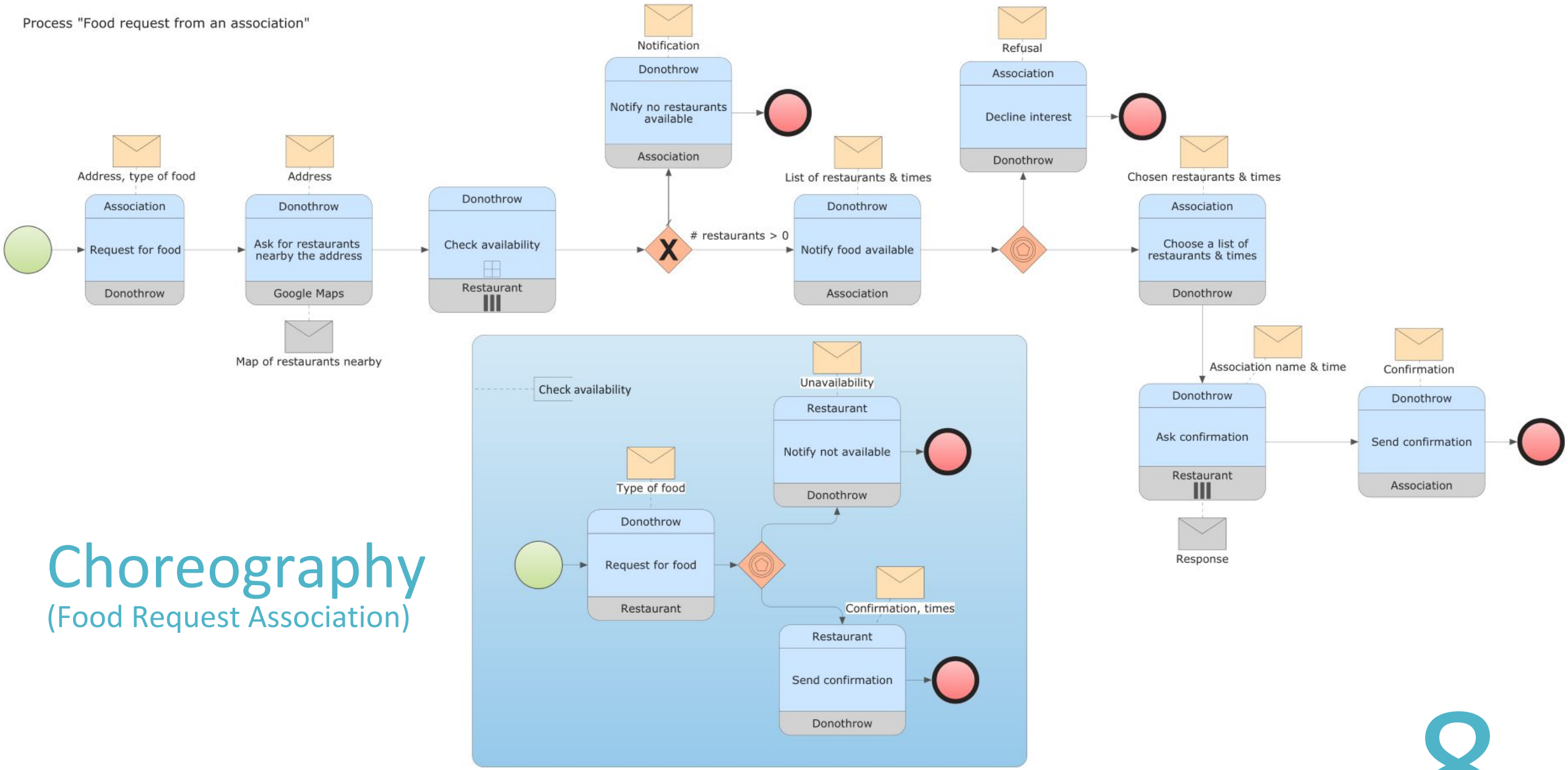






Choreography

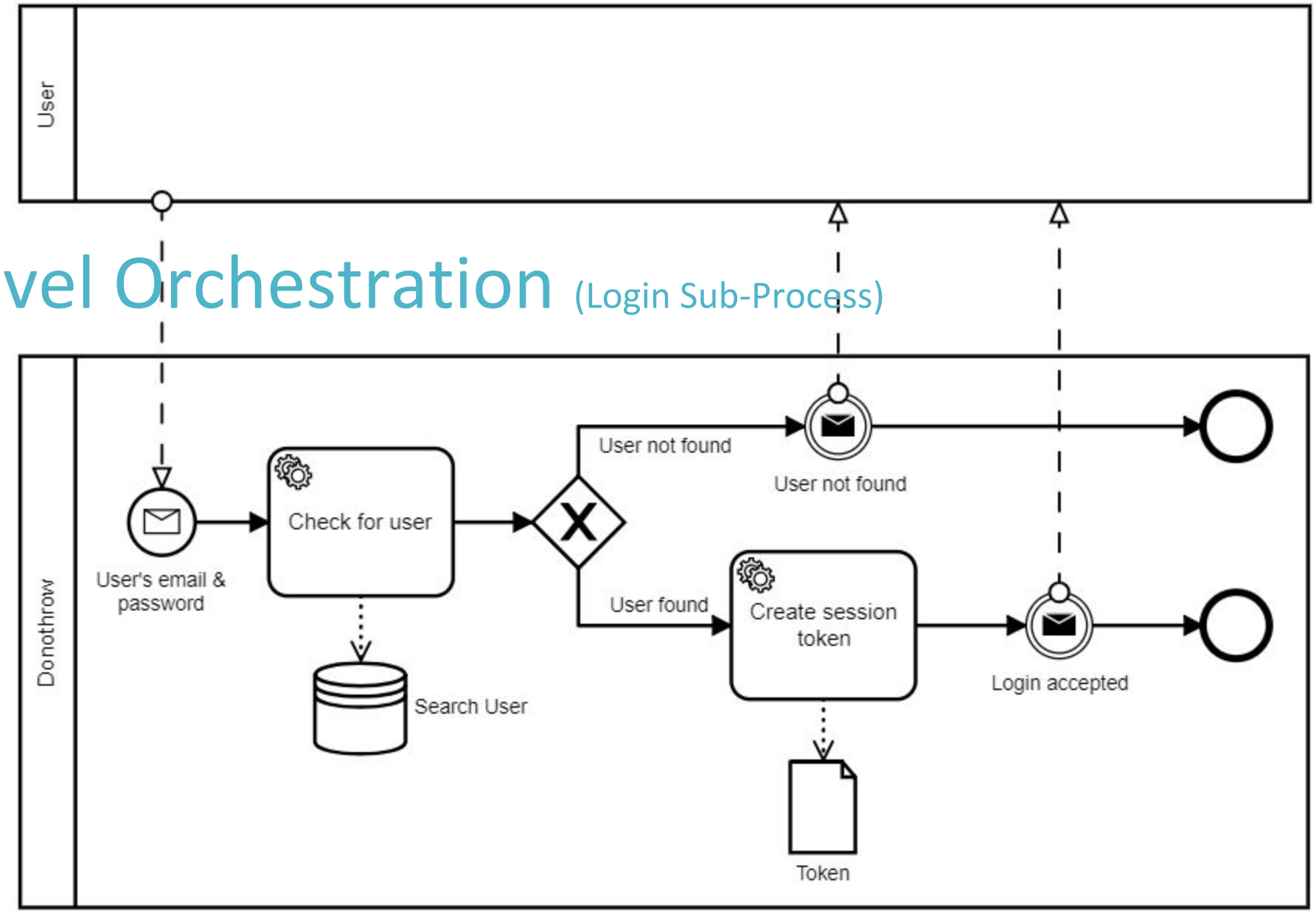
(Food Request Individual User)



Choreography

(Food Request Association)

Low-Level Orchestration (Login Sub-Process)



Much more was modelled!

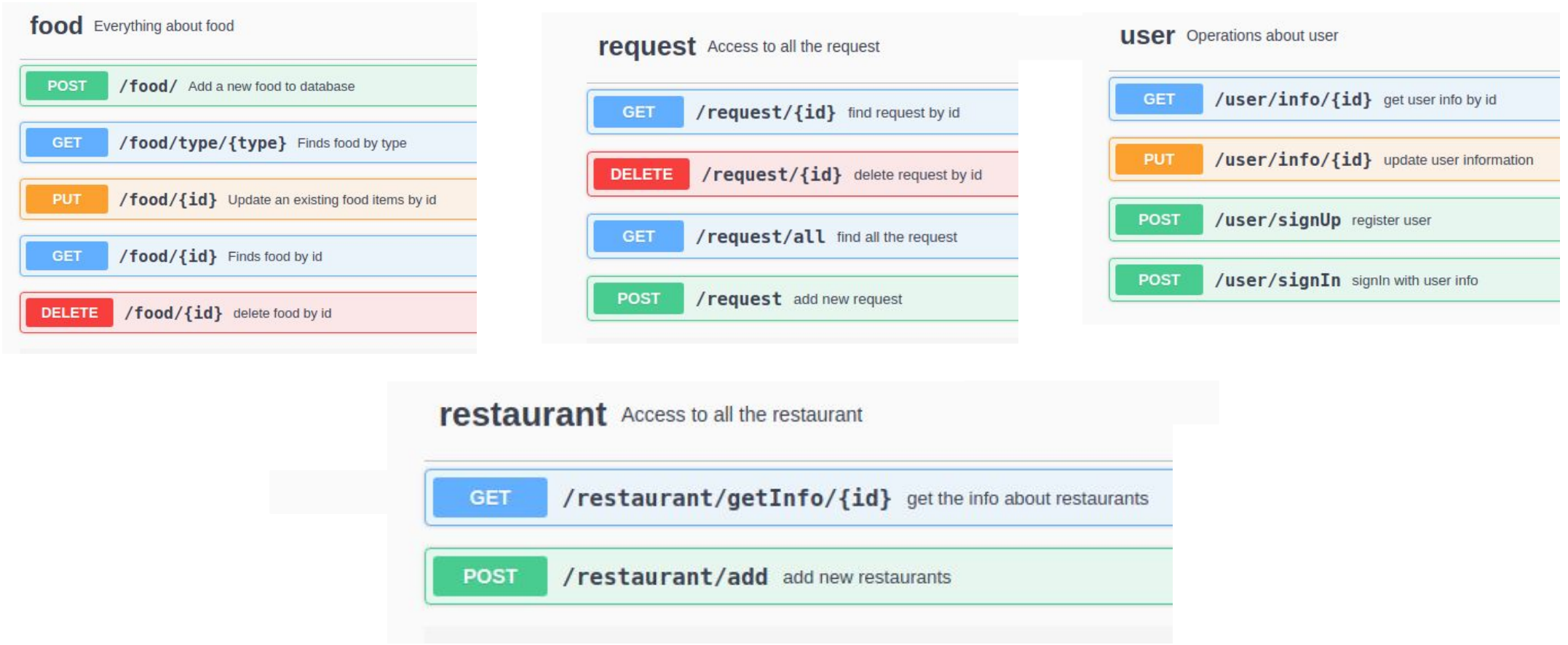
CHOREOGRAPHY

- Individual User Food Request
- Association Food Request
- [Donothrow Food Request]
- Register
- Login
- Leave

ORCHESTRATION

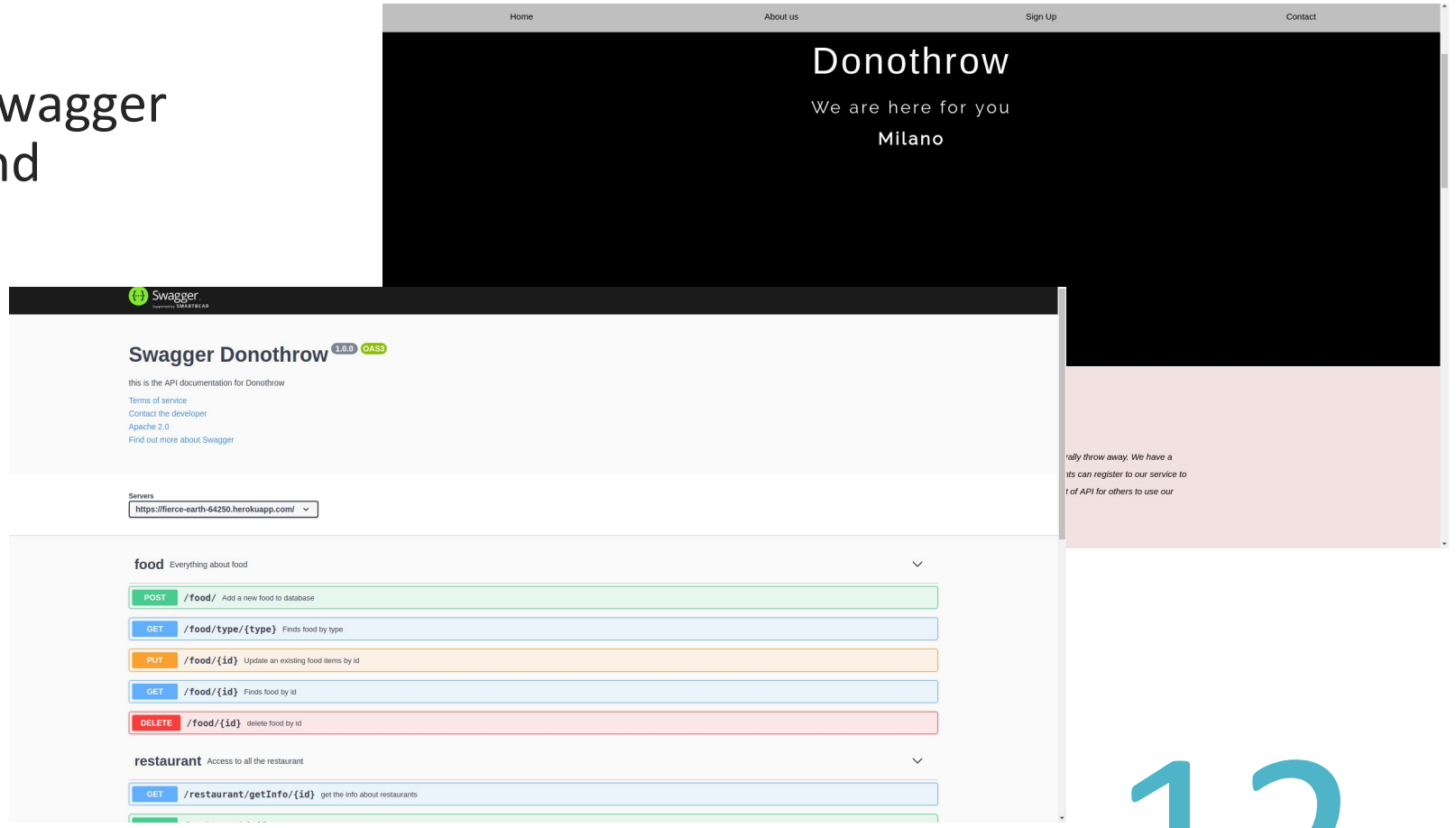
- High-Level Individual User / Association
- [High-Level Donothrow]
- Low-Level Register
- Low-Level Login
- Low-Level Leave (soundness verification)
- Low-Level Individual User Food request (executed)

REST API Portfolio Design



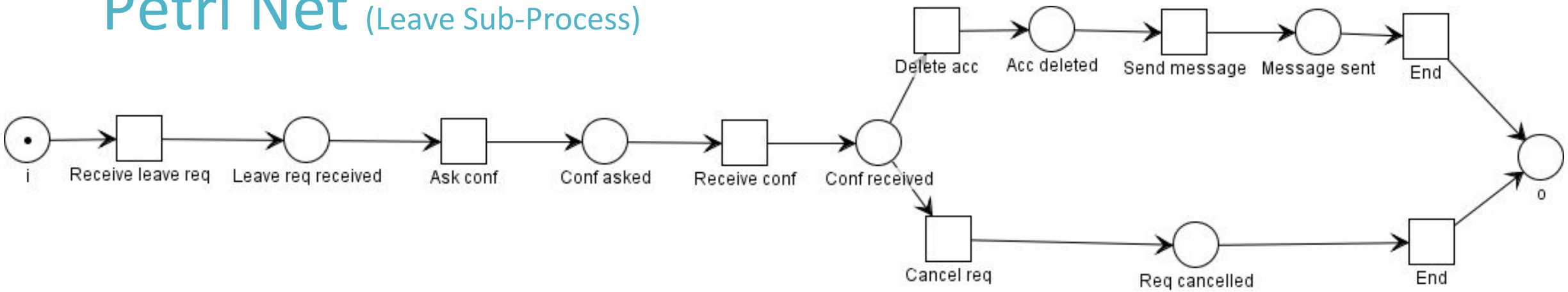
REST API Implementation/Deployement

- Nodejs server
- API documentation with swagger
- HTML and CSS for front end
- Deployed in heroku



Process Verification

Petri Net (Leave Sub-Process)



Process is sound iff :

- The corresponding Petri Net is a Workflow Net ✓
- For any case the process terminates in o with only tokens in o ✓

Execution

Time for a demo!

Challenges

Synchronization of the work

Solution: Frequent Reviews in Group

Design a reusable API

Solution: Apply the REST properties

Execute a process with unknown technologies (Camunda/Java)

Solution: Watch tutorials from Camunda