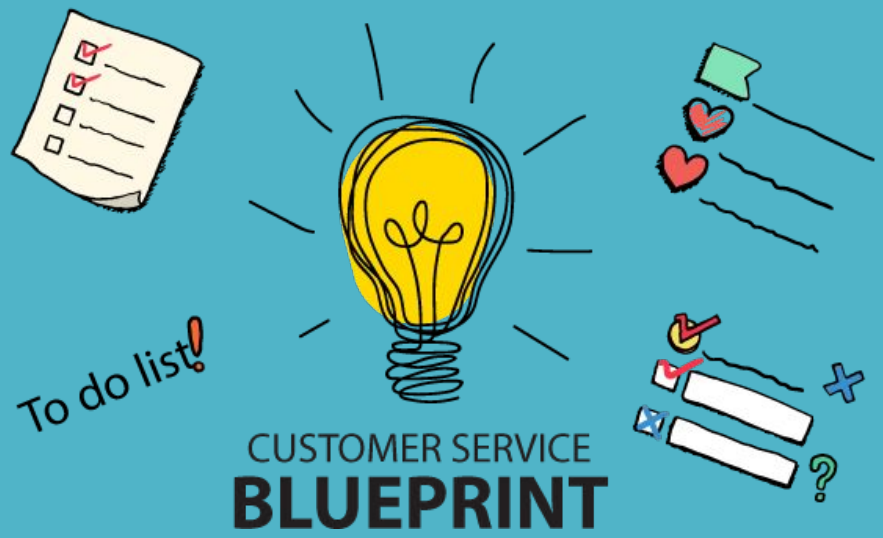
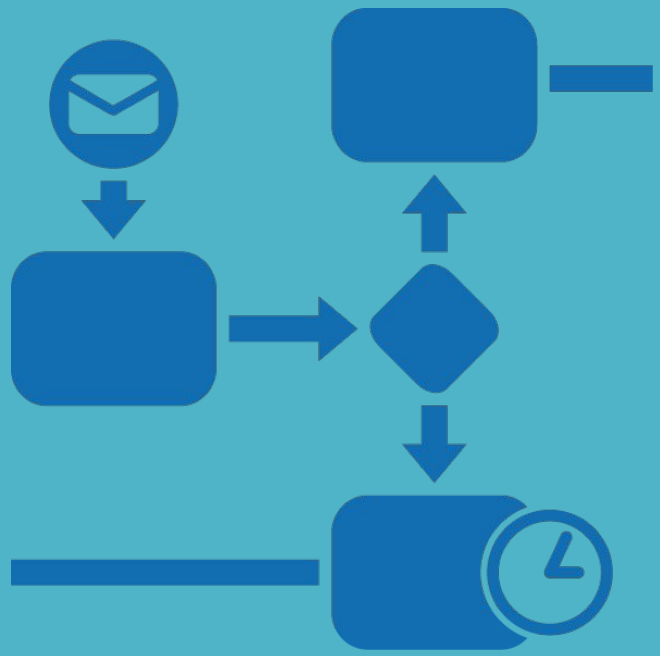
Donothrow

PROCESS AND SERVICE DESIGN PROJECT





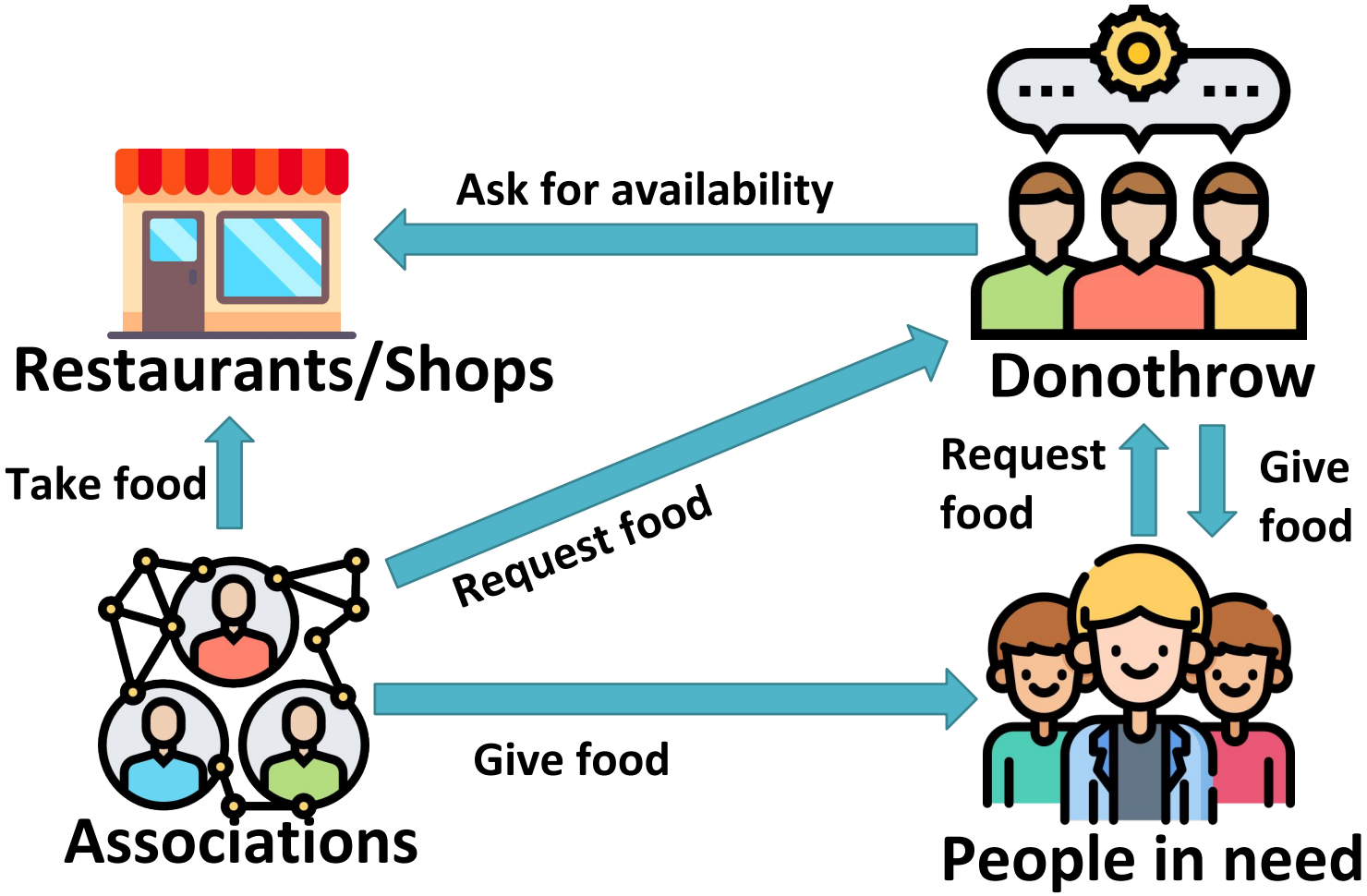
Our service

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)

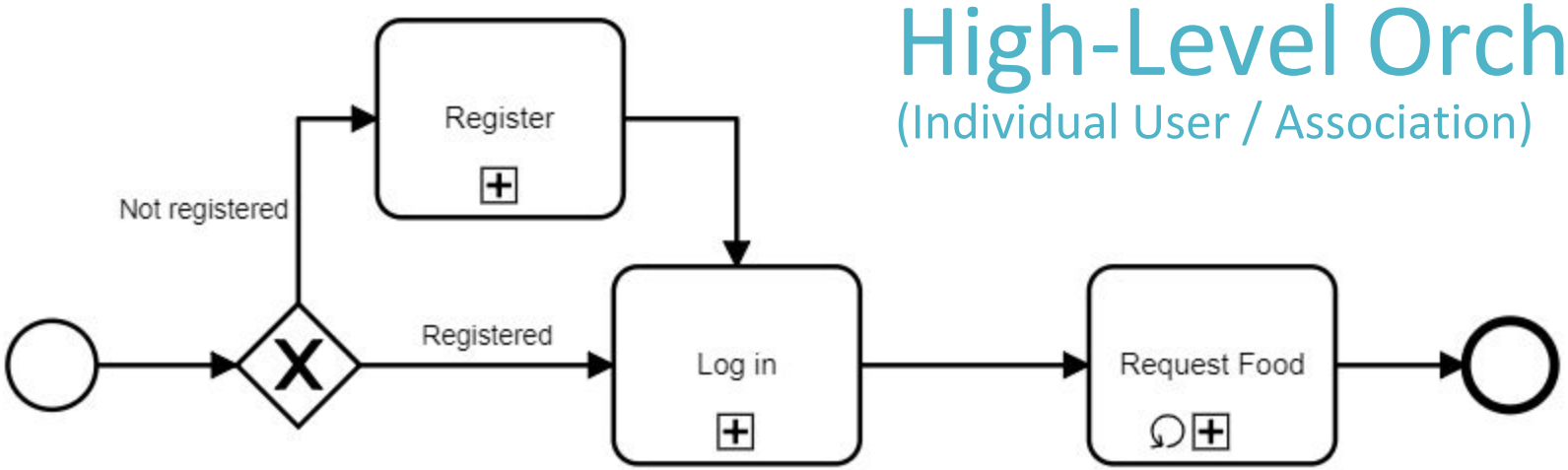
REST API Implementation/Deployement (Node + Heroku)

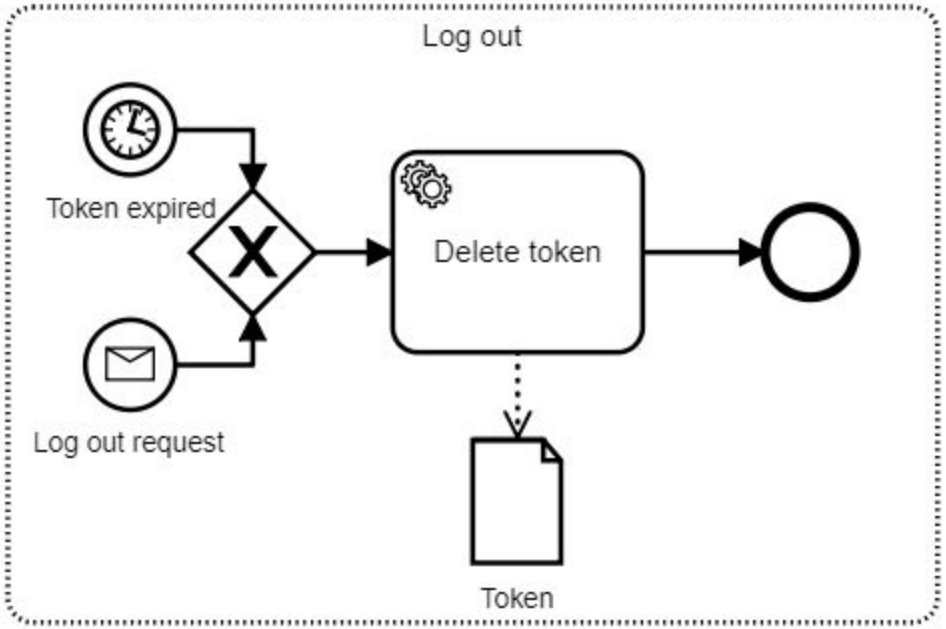
Process Execution (Camunda + Java)

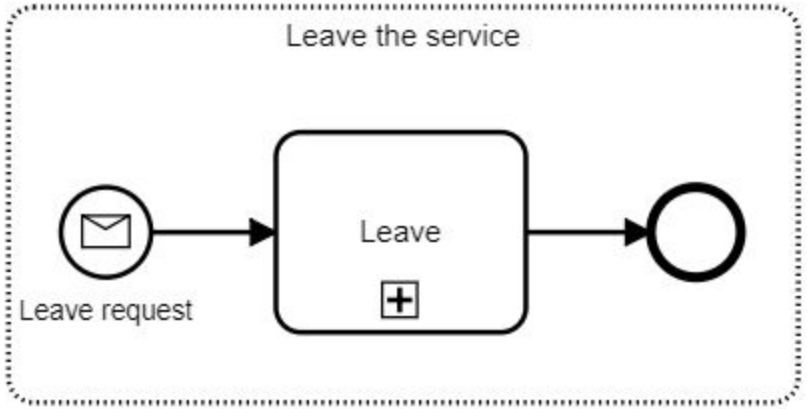
		AWARE			JOIN			USE			LEAVE		
User	**Step**	Surfs on the Internet	Receives leaflets	Visits our social networks	Downloads the app	Registers on app or website	Logs in on app or website	Requests for food	Receives a notification	Confirms the request	Fills form about reasons of the departure	Deletes account	Receives email of confirmation
Channels	**Face to face**		Presentation of Donothrow										
	Print		Link to the website, QR Code for the app										
	Web	Homepage of the website with information on Donothrow		Presentation of Donothrow, link to the website		Fills a form with personal characteristics (professional status...)	Inserts email and password	Inserts user info and the type of food needed	Reads the notification (if the request was accepted, what food is available)	Chooses some food from the proposed list	Checks some reasons of departure in a list	Clicks a button	
	Email												Reads the email
	Mobile			Presentation of Donothrow, link to the website		Fills a form with personal characteristics (professional status...)	Inserts email and password	Inserts user info and the type of food needed	Reads the notification (if the request was accepted, what food is available)	Chooses some food from the proposed list	Checks some reasons of departure in a list	Clicks a button	
Backstage processes	**IT-Department**					Database: insertion of a new user	Database: verification that user exists	Database: creation of a new request		Database: update of the request		Database: deletion of the user	
	Third party		A printing company		Google Play Store				Amazon Simple Notification Service				Gmail

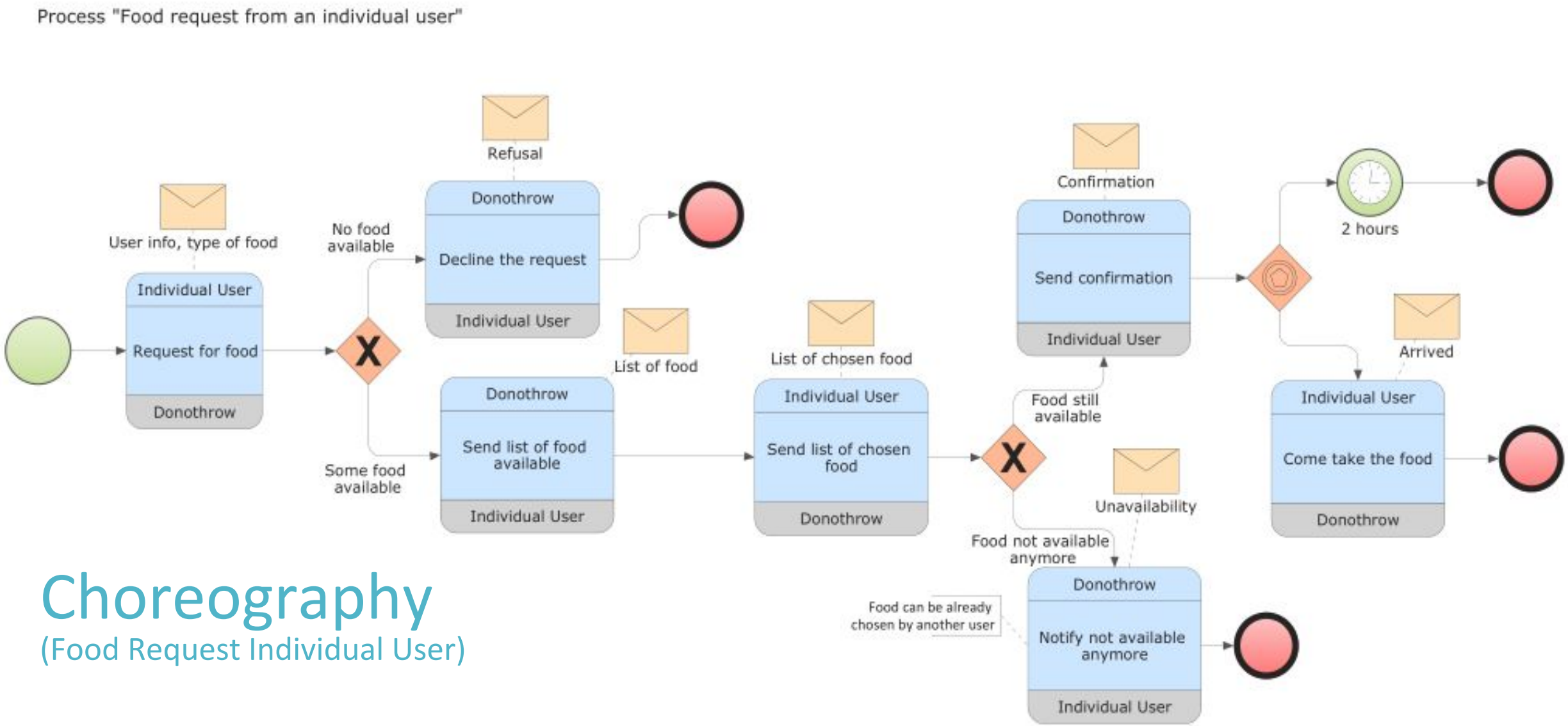
High-Level Orchestration

(Individual User / Association)



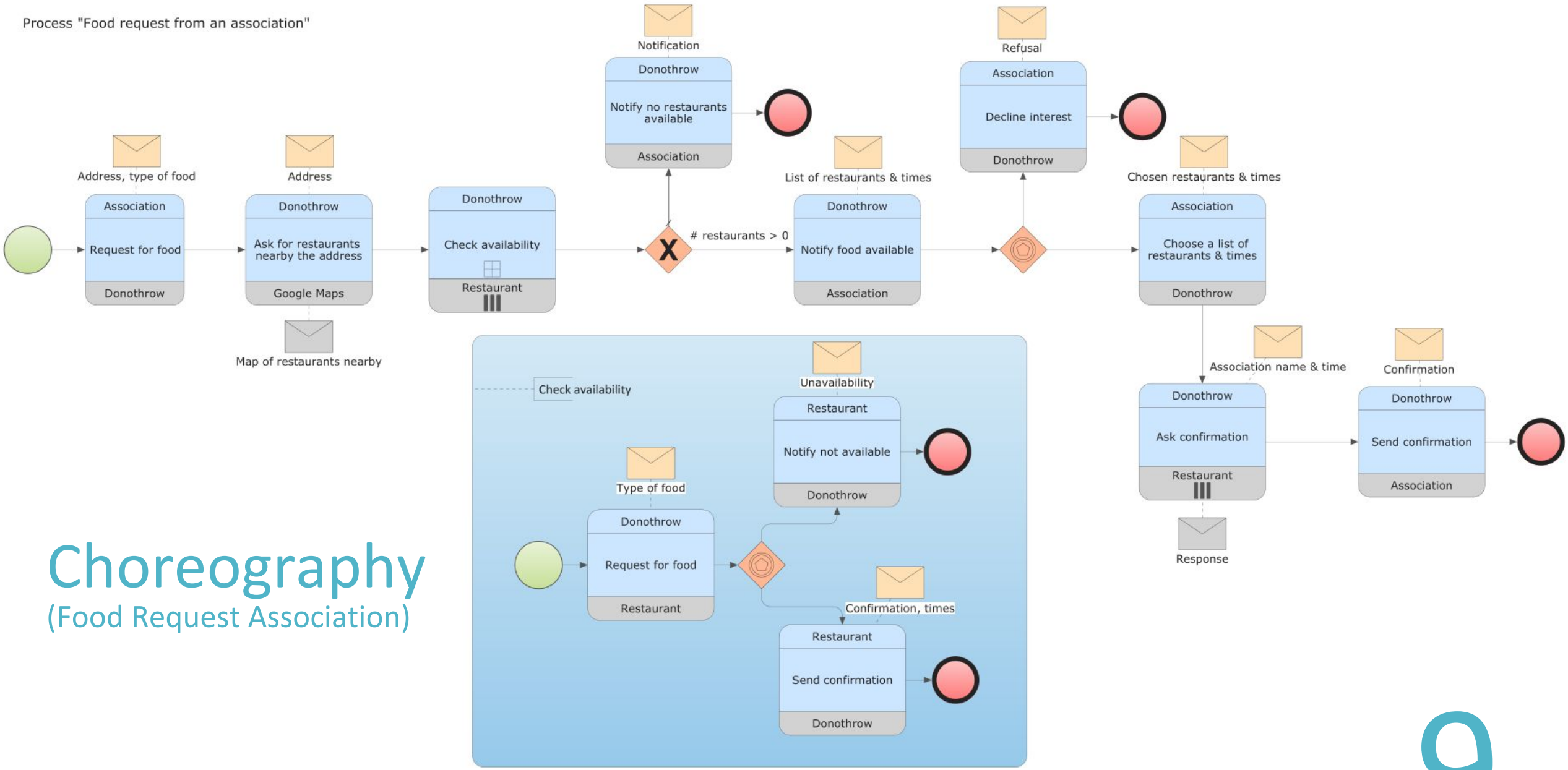






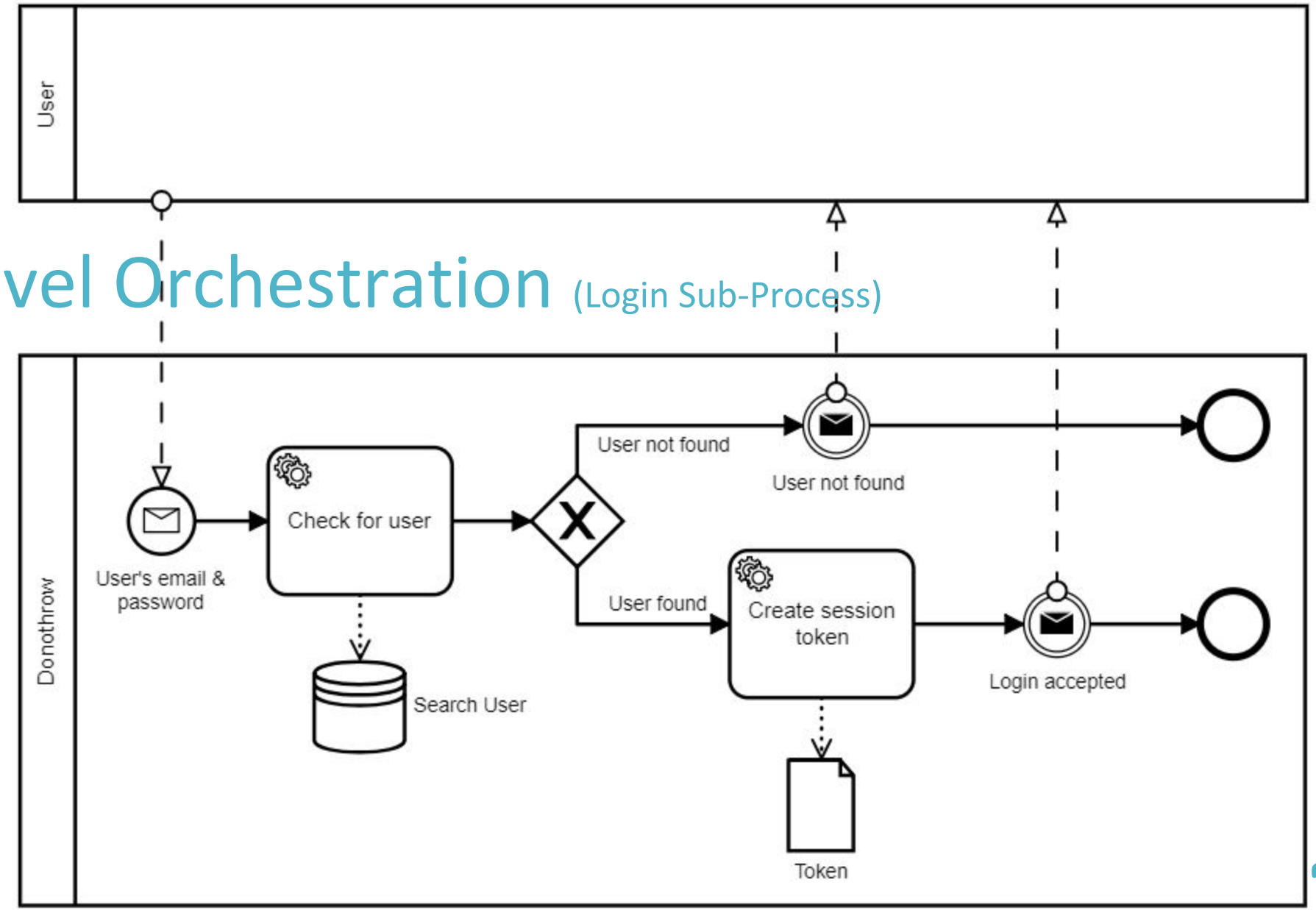
Choreography

(Food Request Individual User)



Choreography
(Food Request Association)

Low-Level Orchestration (Login Sub-Process)



Much more was modelled!

CHOREOGRAPHY

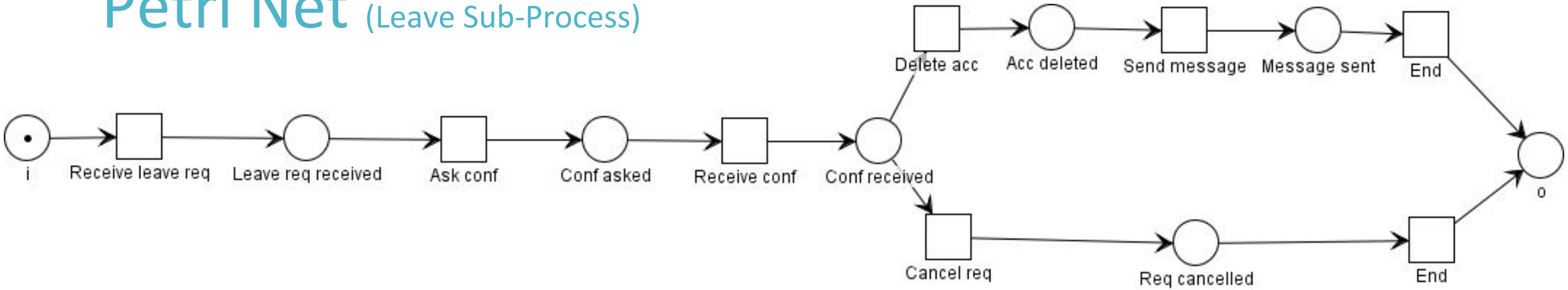
- Individual User Food Request
- Association Food Request
- [Donothrow Food Request]
- Register
- Login
- Leave

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)

Process Verification

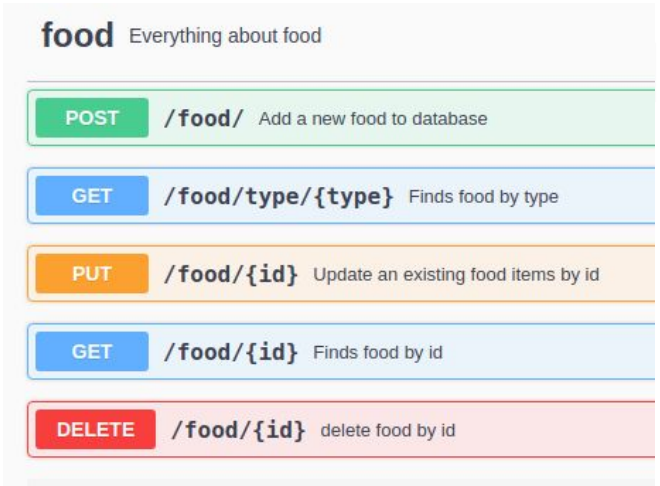
Petri Net (Leave Sub-Process)

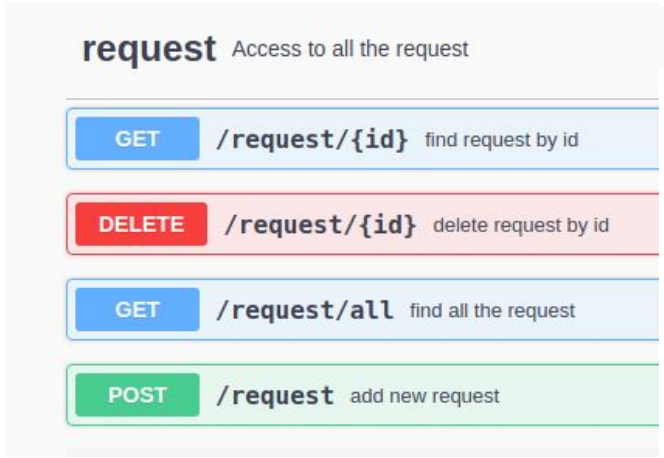


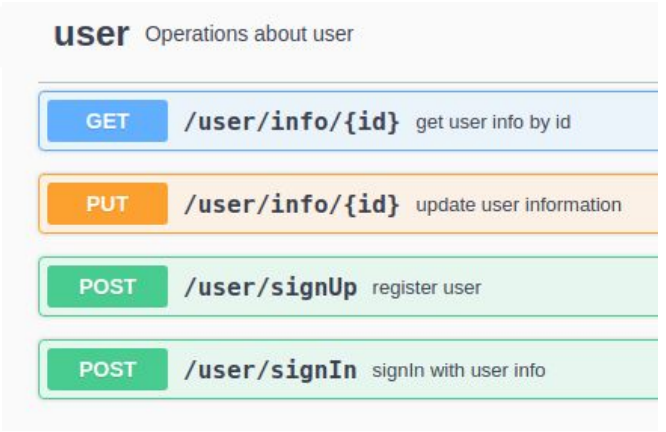
Process is sound iff :

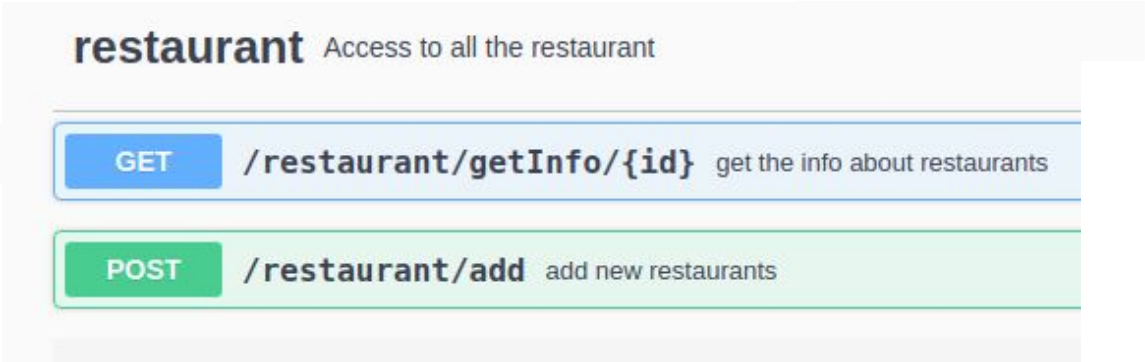
- The corresponding Petri Net is a Workflow Net ✓
- For any case the process terminates in o with only tokens in o ✓

REST API Portfolio Design



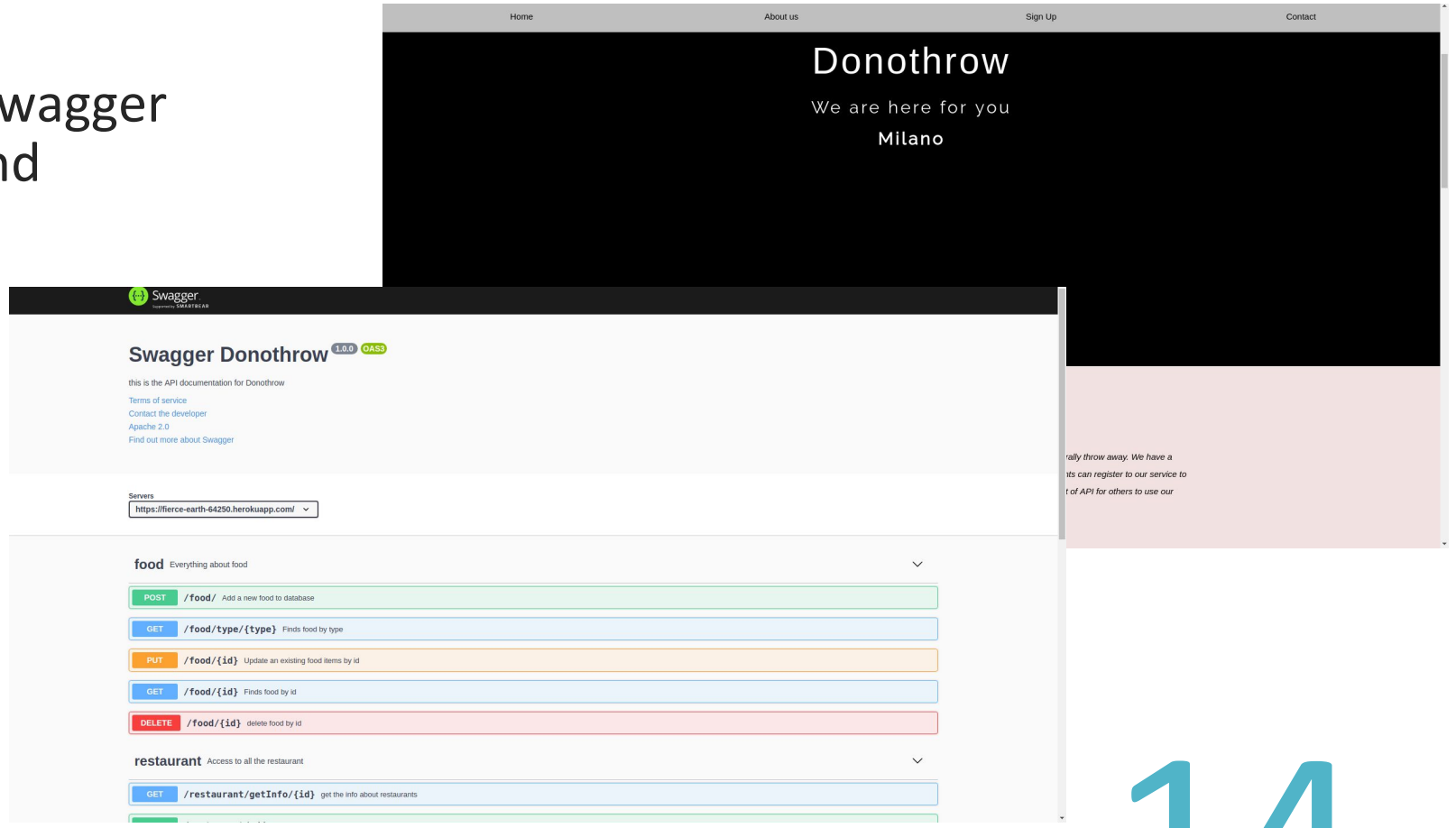






REST API Implementation/Deployement

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



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