



POLITECNICO
MILANO 1863

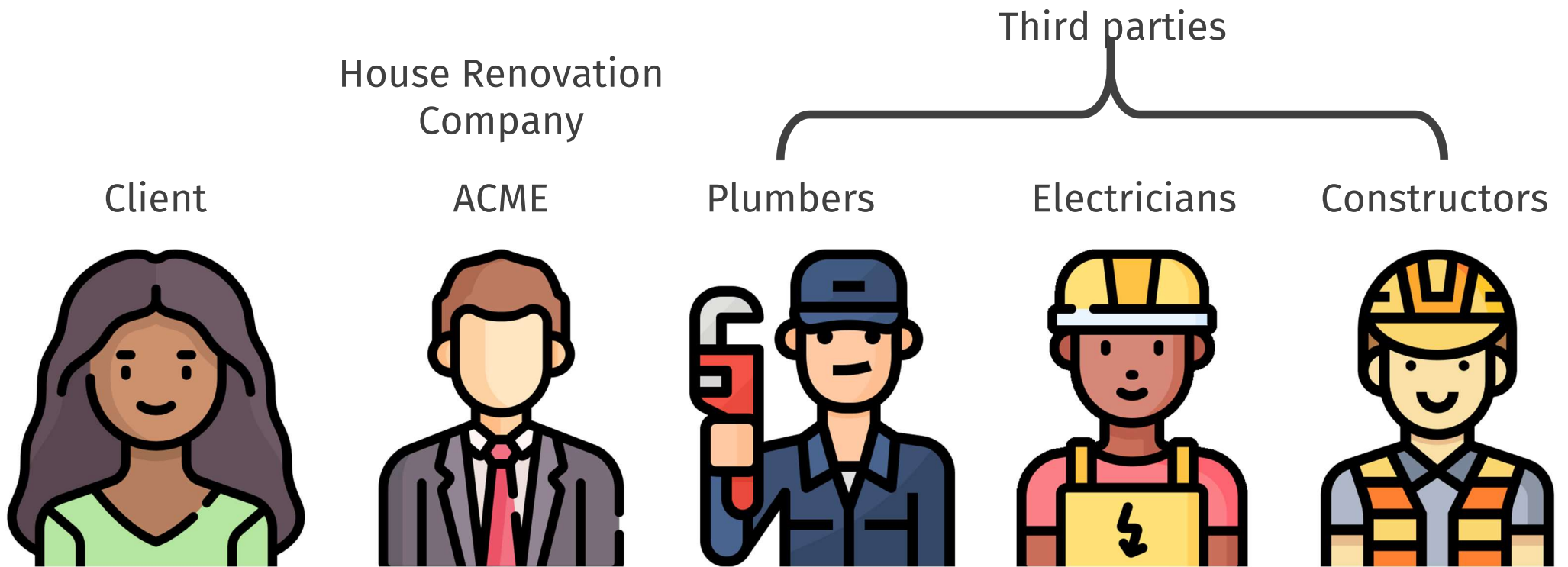
House Renovation

Process and Service Design

12/09/2023

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Buttiglieri Giorgio Natale

Context



Rfq

Request for quotation given a list of activities

Quotation

Statement consisting of the **estimated cost** for a given list of activities

Project

Identifier which allows to **keep track** of the activities to be done for the client

Plan proposal

Proposed jobs schedule

Job

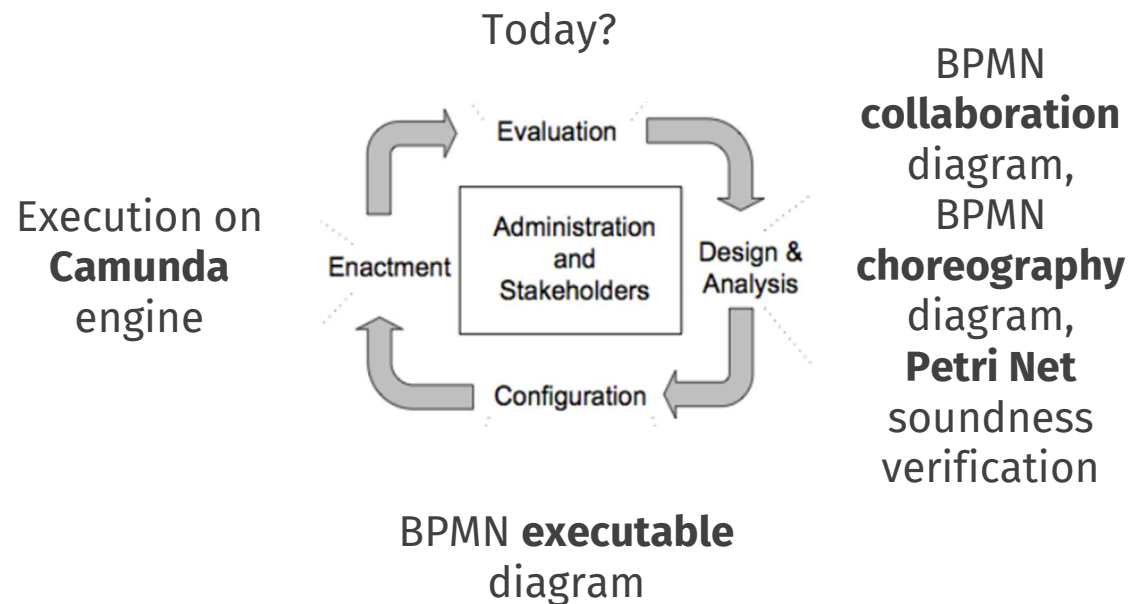
Activity enriched with the **scheduled datetime** and its **status**

Development

API Design

1. Domain analysis
2. Architectural Design
 - **REST** as architectural style
 - **OpenAPI** as API description language
3. Prototyping
 - code generation tool
4. Implementation for production
5. Publishing
6. Maintenance

Business Process Lifecycle

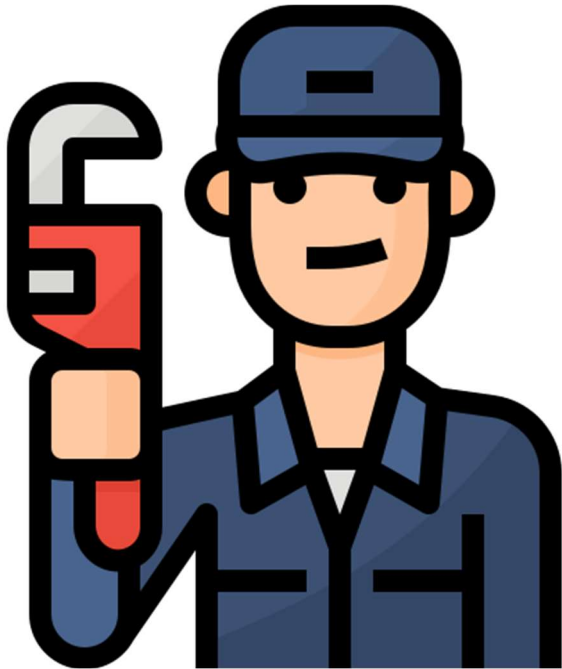


Choreography diagram

[open [choreography.pdf](#)]

Interaction **types**

Plumbers



Asynchronous
interaction,
PULL model

Electricians

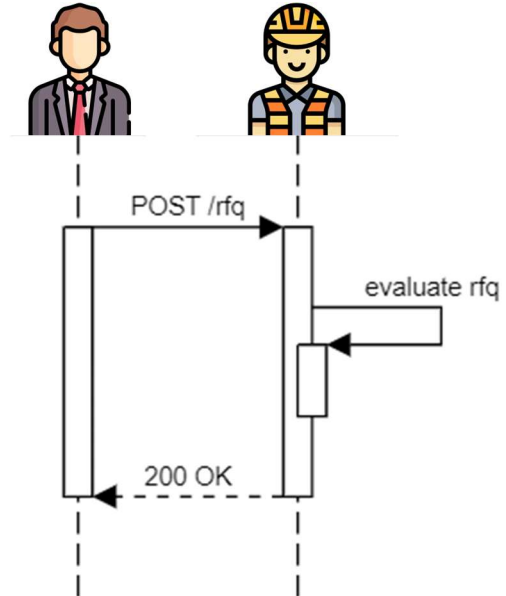
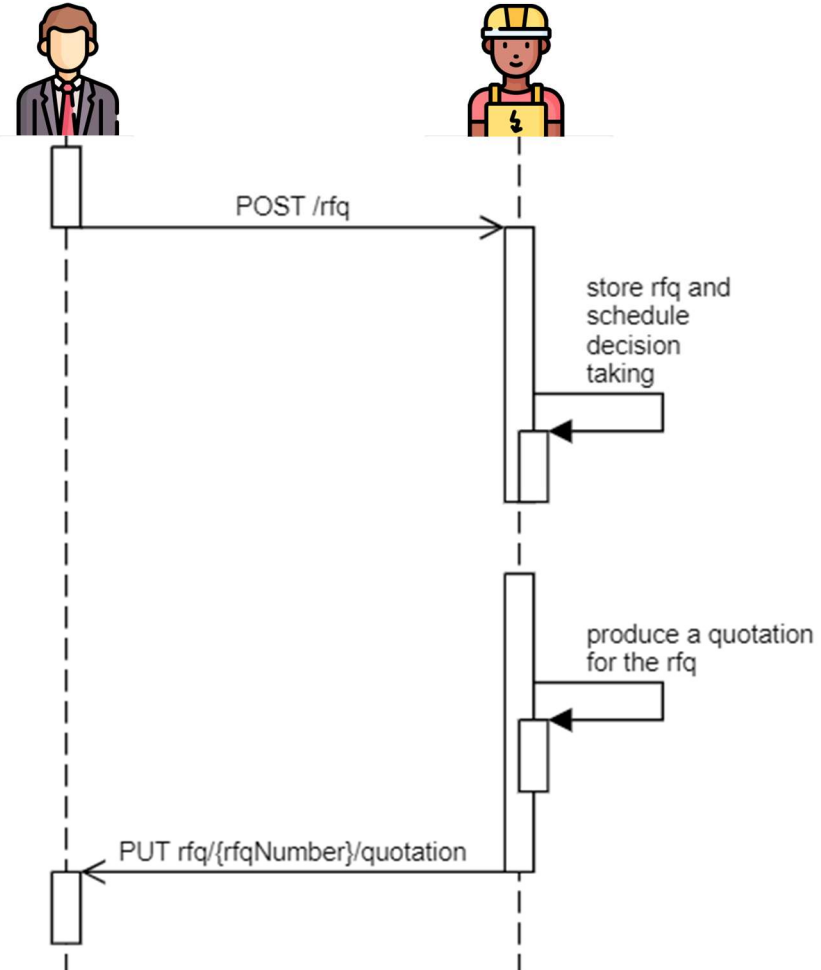
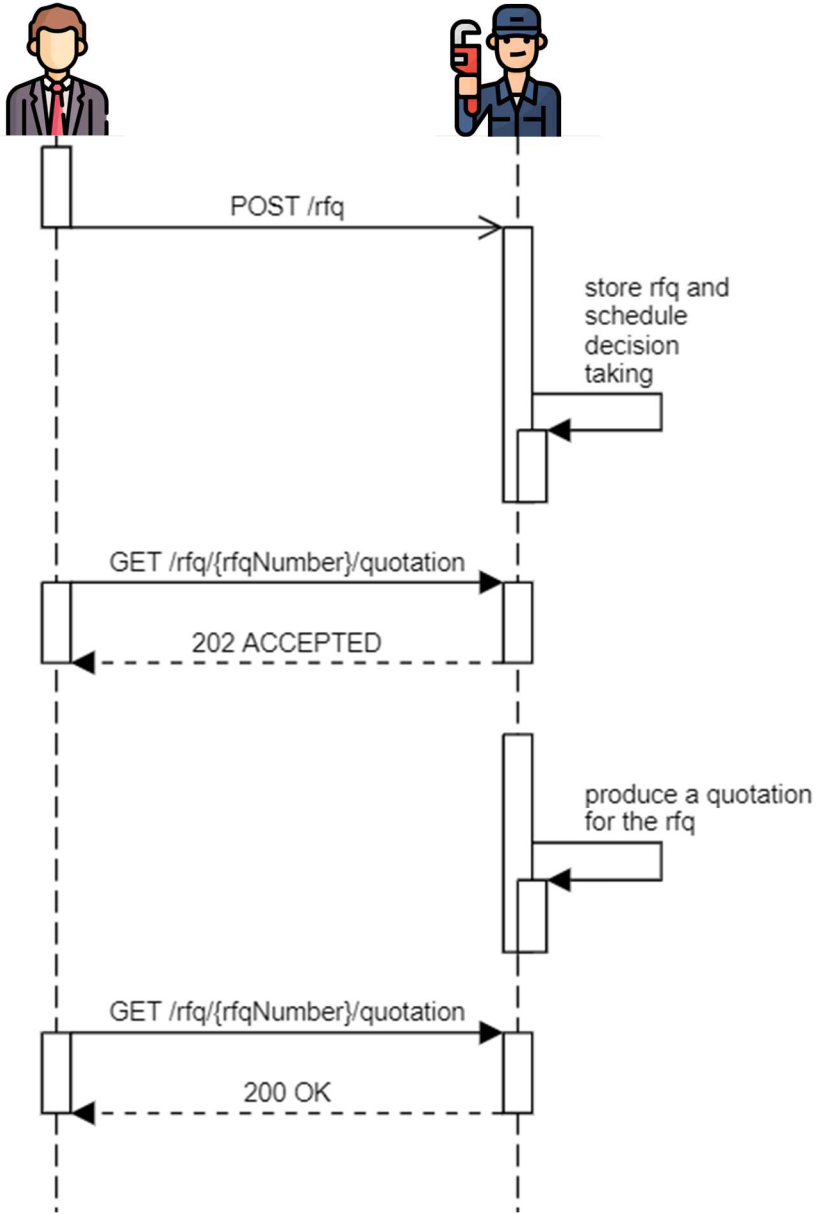


Asynchronous
interaction,
PUSH model

Constructors



Synchronous
interaction



Collaboration diagram

[open [collaboration.pdf](#)]

Executable diagram

[open [executable.png](#)]

**...up and running
on Camunda**

[run [Camunda](#)]