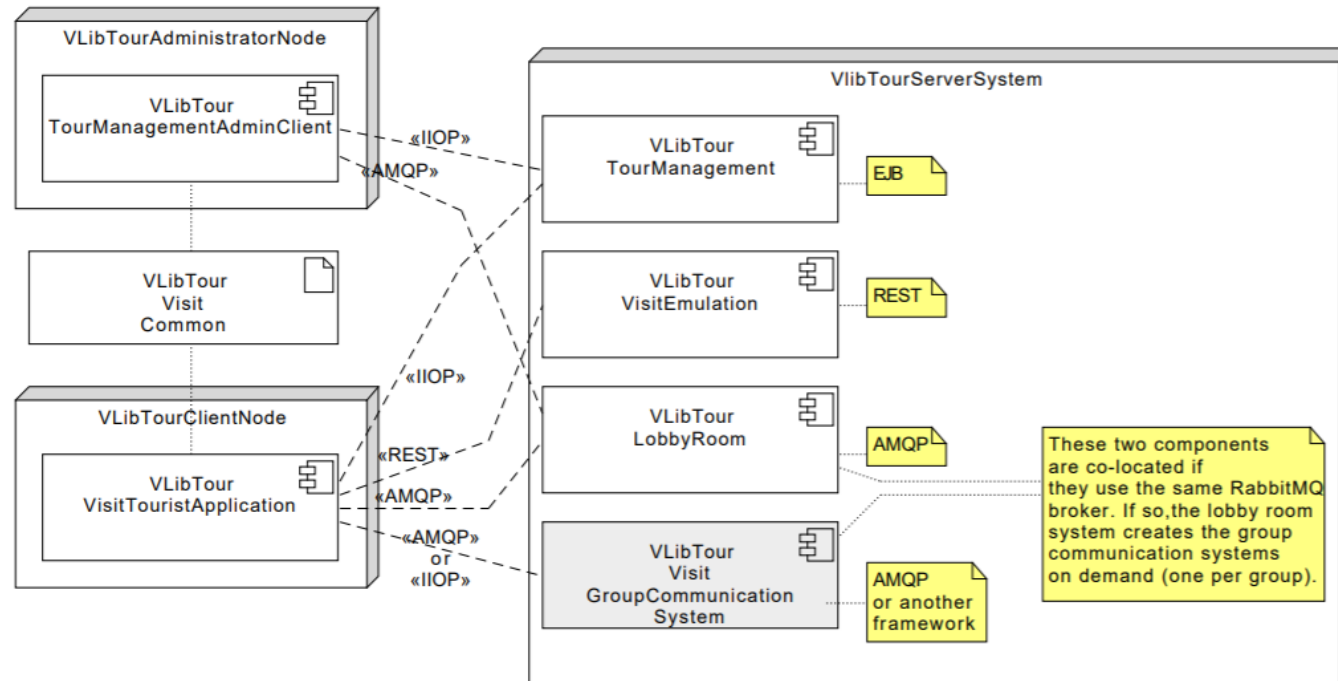


# Rapport du projet CSC5002

VlibTour

Ahmed BAHRI / Sylvain MENEZ

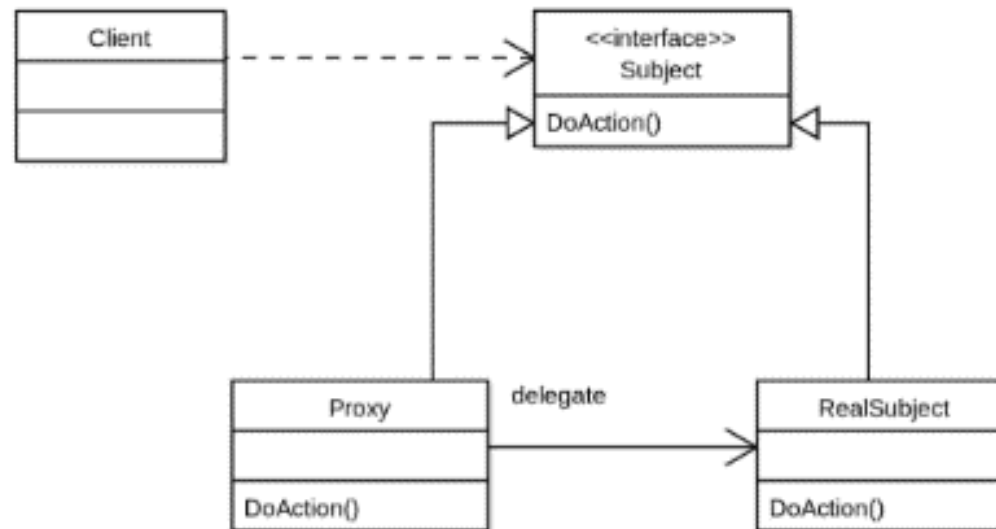


# ARCHITECTURE

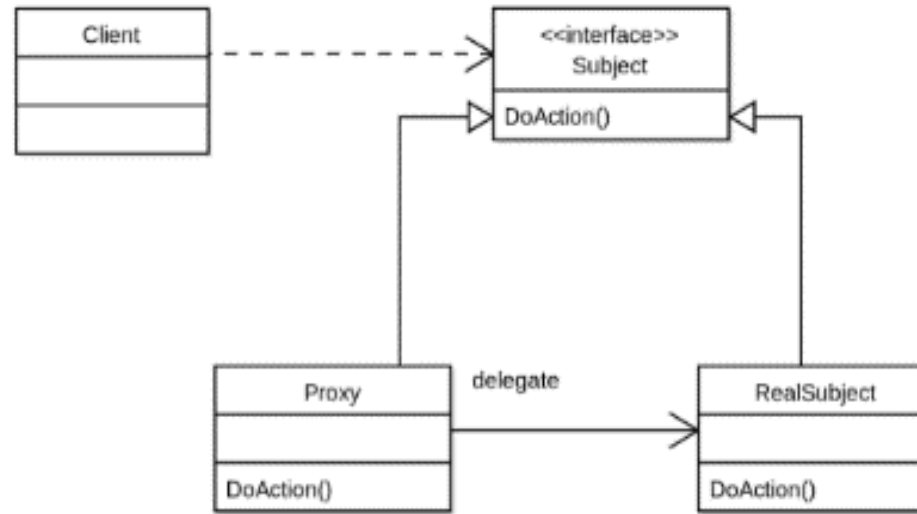
# VLibTour Visit Emulation

- ▶ API REST
- ▶ Requête HTTP

```
-<application>
  <doc jersey:generatedBy="Jersey: 2.17 2015-03-11 13:44:09"/>
  <doc jersey:hint="This is simplified WADL with user and core resources c
http://localhost:8888/VisitEmulation/application.wadl?detail=true"/>
  <grammars/>
  -<resources base="http://localhost:8888/VisitEmulation/">
    -<resource path="/visitemulation">
      +<resource path="/getNextPOIPosition/{user}"></resource>
      +<resource path="/getCurrentPosition/{user}"></resource>
      +<resource path="/stepInCurrentPath/{user}"></resource>
      +<resource path="/stepsInVisit/{user}"></resource>
    </resource>
  </resources>
</application>
```



Implémentation d'un proxy pour faciliter le développement du client



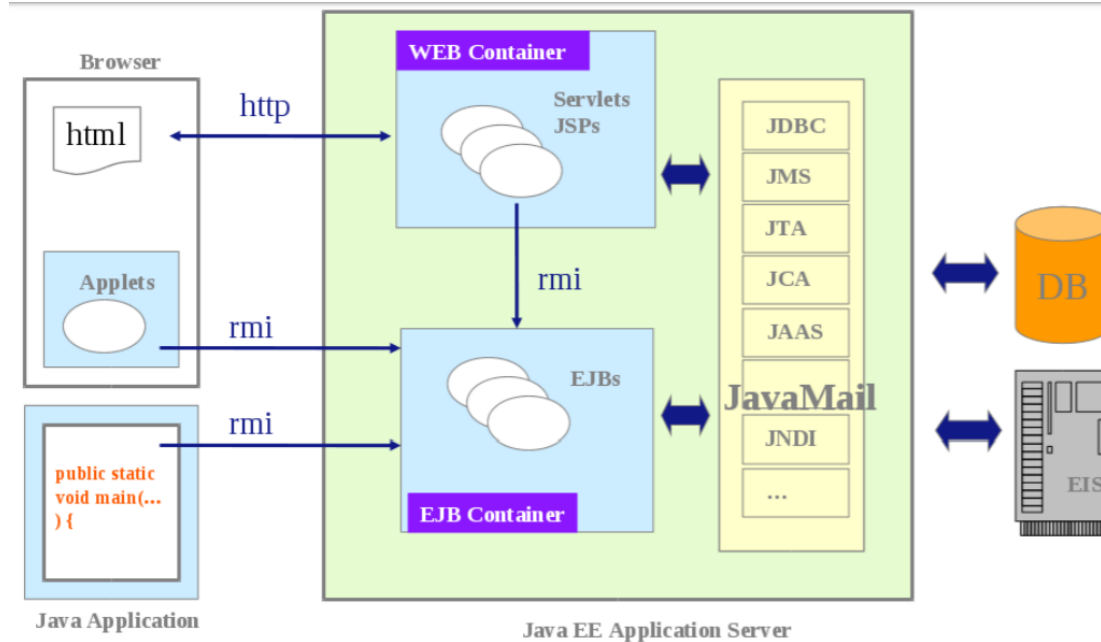
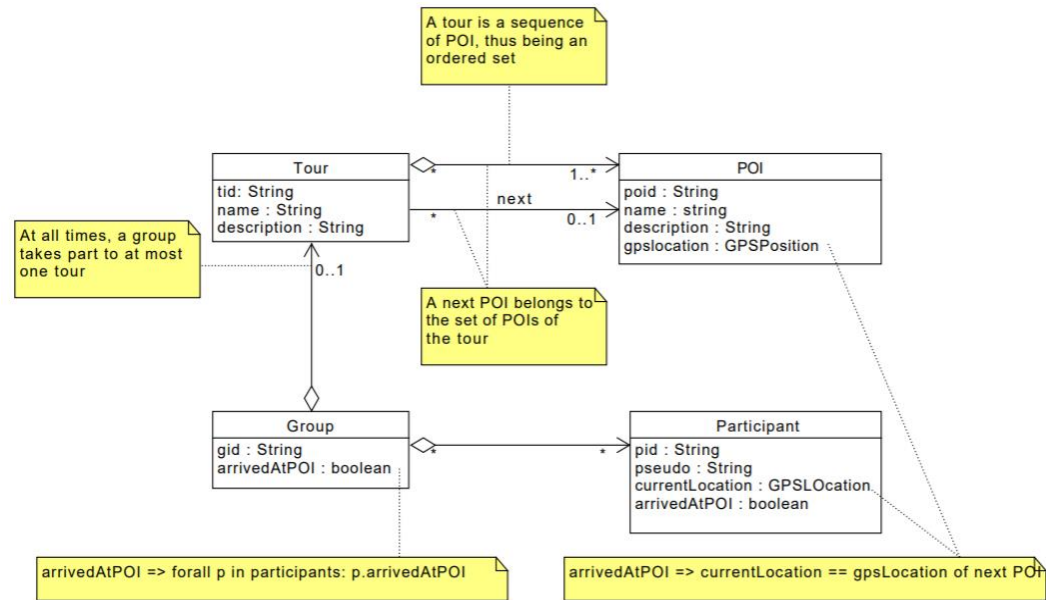
```
VLibTourVisitEmulationClient proxy=new VLibTourVisitEmulationClient();
Position position=proxy.getNextPOIPosition(ExampleOfAVisitWithTwoTourists.USER_ID_JOE);
```

instead of

```
Client client = ClientBuilder.newClient();
URI uri = UriBuilder.fromUri(ExampleOfAVisitWithTwoTourists.BASE_URI_WEB_SERVER).build();
WebTarget service = client.target(uri);
Position position=service
    .path("visitemulation/getNextPOIPosition/" + ExampleOfAVisitWithTwoTourists.USER_ID_JOE).request()
    .accept(MediaType.APPLICATION_JSON).get().readEntity(Position.class);
```

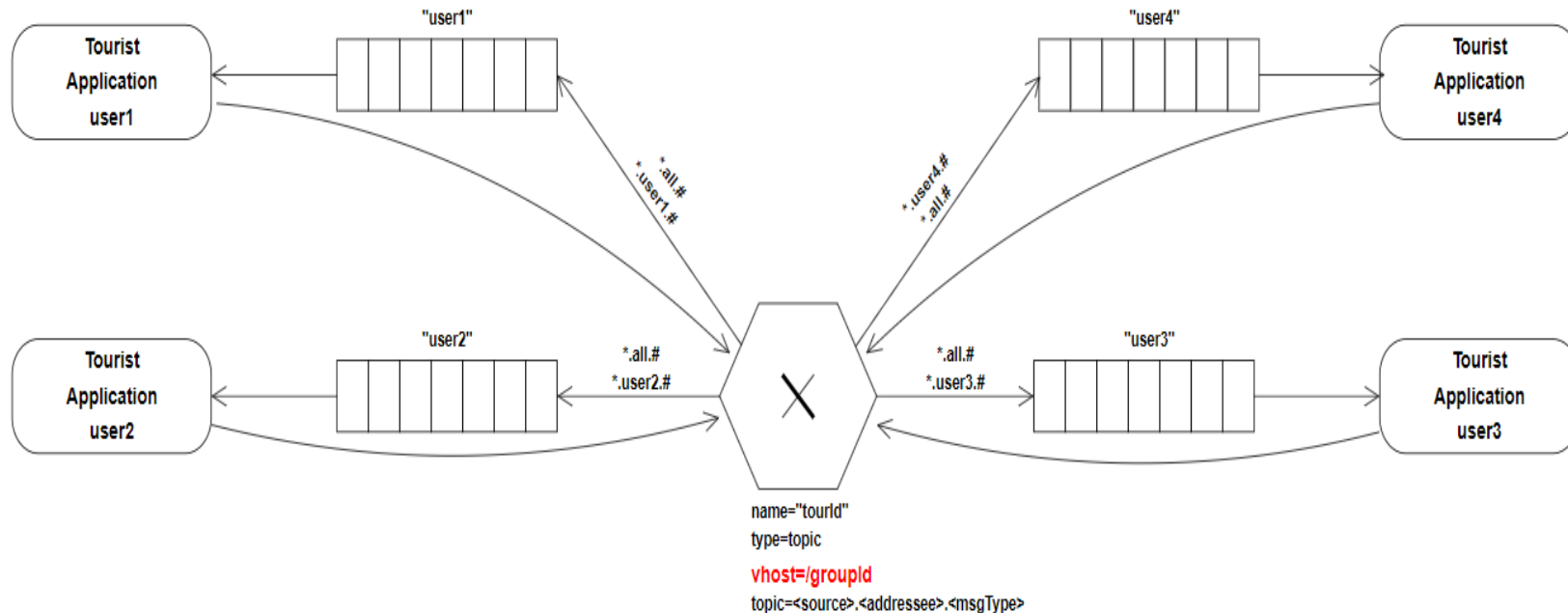
# VLibTour Tour Management

- Objets JAVA dans table SQL
- EJB Container



# VLibTour GroupCommunication System

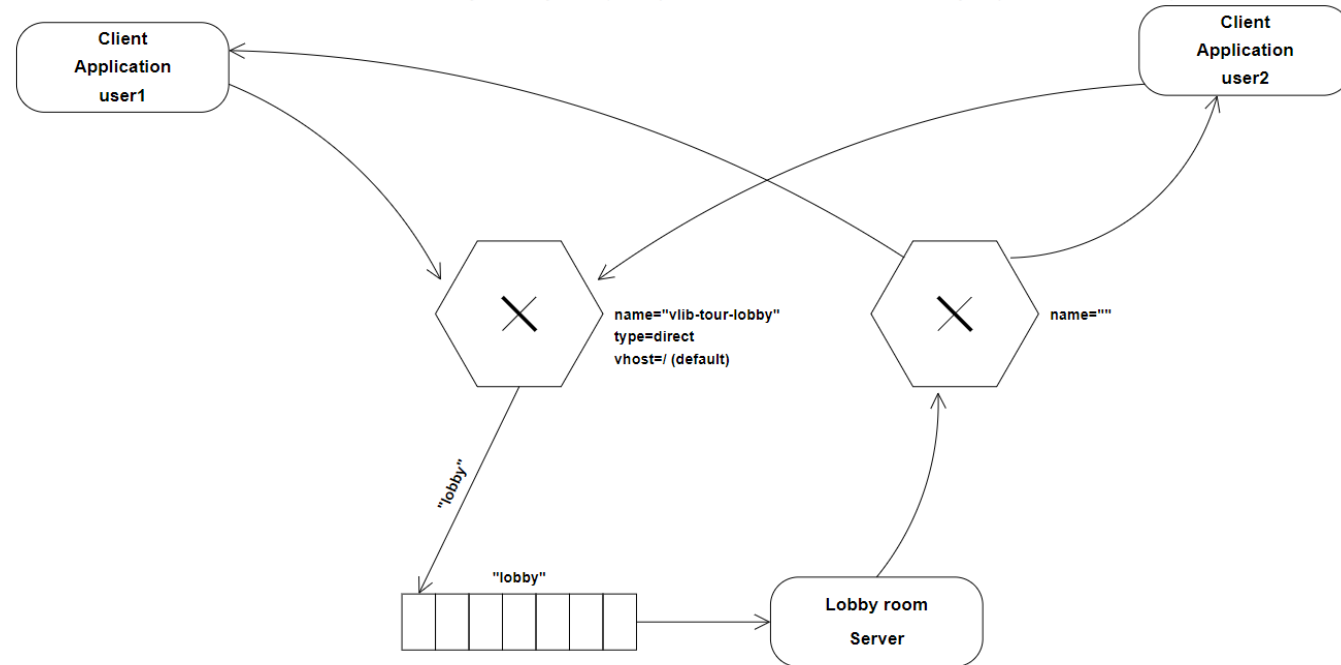
- Serveur RabbitMQ
- Protocole AMQP
- Virtual Host



# VLibTour

## LobbyRoom

- ▶ Pattern client/serveur
- ▶ Requête RPC
- ▶ Crée instance GroupCommunication System



# VLibTour

## VisitTouristApplication

Scénario de 2 utilisateurs :

- ▶ EmulationVisitClient
- ▶ LobbyRoomClient (Créer/ Joint un groupe)
- ▶ GroupCommunication System
- ▶ Partage de position + nom



# Extra-fonctionnalités



Scalability



Security

# Avancement et perspectives

- Avancement ;
- Difficultés rencontrées ;
- Idées d'avancement ;

# Démonstration