Distributed Systems Engineering

SUPD REPORT

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The core design

I implement microservice 2 with java. I am using SPRING framework; this framework provides Representational state transfer (Rest). Other team members can use my microservice with standard HTTP requests.

Service deployment

I deployed microservice 2 on my PC with using provided Open VPN server. My server address on port number 8080 is http://10.101.108.9 . When I am connected to VPN and execute my implementation, other team colleagues can reach MS2.

Ideas for testing and presentation

MS2 doesn't crucially depend on the other microservices. Microservice 2 can be tested with sending HTTP request to my endpoint. I tested my implementation with application "POSTMAN". I tested two HTTP methods GET and POST with Postman, and achieved to get responses as JSON.

The current state of my implementation

Currently provides functions for creating and getting advertisement objects. Response to other microservices will be in JSON format. My service runs successfully on provided VPN address.

Getting an advertisement:

To get an advertisement object, a HTTP get request should be send to my endpoint. This method will response a JSON.

Endpoint for GET request to: http://10.101.108.9:8080/getadvertisement/{name}

Will return a single advertisement object. Request must contain a name, so that a specific object will be returned.

Example respond: `{"adv_name":"wohnung 1010"," adv_nummer ":"10345667"," adv_date ":"21.05.2018", "adv_kategorie": "immobilien", "adv_beschreibung": "studio zwei die grössten 32m2 wiens"}.`

<u>Posting an advertisement:</u>

To post an advertisement object, a HTTP post request should be send to my endpoint, with following parameters; `adv_name, adv_nummer, adv_date, adv_kategorie, adv_beschreibung.`

Endpoint for POST request to: http://10.101.108.9:8080/postadvertisement

Example post request to endpoint with following parameters; `{"adv_name":"vw Golf","` `adv_nummer ":"98345667"," adv_date ":"05.05.2012", "adv_kategorie": "autoundmotor",` `"adv_beschreibung": "wie neu, mit wenig Kilometer"}.`

<u>What is missing:</u>

I will provide two missing functionalities for removing and updating advertisements. In addition, I will establish connection with MS1, to make authorization decisions.