

Payments API Design document

Design requirements

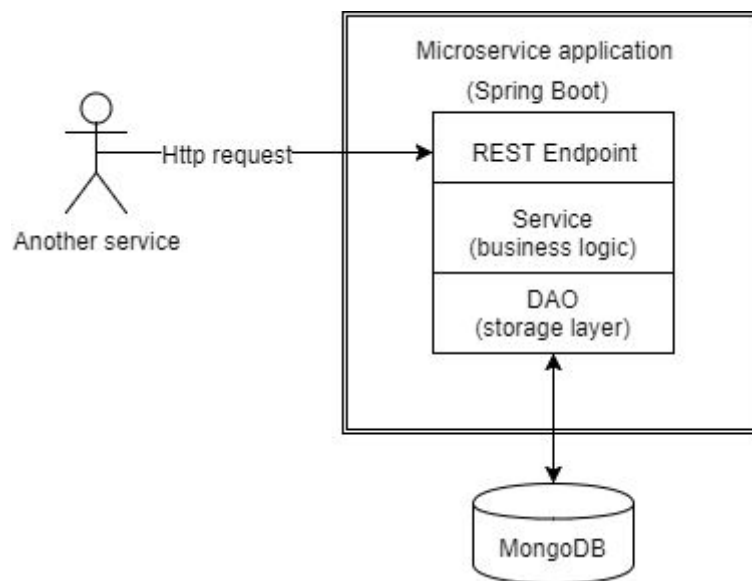
Design requirements are:

1. API should be RESTFUL
2. API should be able to:
 - a. Fetch a payment resource
 - b. Create update and delete a payment resource
 - c. List a collection of payment resources

Example use case

A JavaScript client should be able to call the API and list a collection of my payments.

Application architecture



Technologies

The project is an application based Spring Boot framework. Used java 8 as code language and Lombok project(<https://projectlombok.org/>) for simplify POJO creation and improve code readability.

For test purpose JUnit and Mockito are used.

Project has Swagger API documentation which can be reached on <http://<host>:<port>/swagger-ui.html>

REST API specification

Method	URL	Description	Parameters	Response/Result
GET	/api/payments	List all payments resources	<u>Request parameters:</u> page - number of page(not required) size - size of a page(not required)	List of PaymentDTO as JSON
GET	/api/payments/by-organisation/ {organisationId}	List payments resources for organisation	<u>Request path:</u> organisationId - id of organisation <u>Request parameters:</u> page - number of page(not required) size - size of a page(not required)	List of PaymentDTO as JSON
GET	/api/payments/ {paymentId}	Find payment resource by id	<u>Request path:</u> paymentId - id of payment resource	PaymentDTO as JSON
POST	/api/payments	Create new payment resource	<u>Request body:</u> EditPaymentDTO as JSON	Created PaymentDTO as JSON
PUT	/api/payments/ {paymentId}	Update existing resource by id	<u>Request path:</u> paymentId - id of payment resource <u>Request body:</u> EditPaymentDTO as JSON	Updated PaymentDTO as JSON
DELETE	/api/payments/ {paymentId}	Delete resource by id	<u>Request path:</u> paymentId - id of payment resource	Delete Payment resource. Response with code 200 means success.

PaymentDTO	EditPaymentDTO
<pre>{ "attributes": { "amount": 0.0, "beneficiaryParty": { "accountName": "string", "accountNumber": "string", "address": "string", "bankId": "string", "bankIdCode": "string", "name": "string" }, "currency": "string", "paymentId": "string", "paymentPurpose": "string", "paymentType": "string", "processingDate": [2017, 10, 21], "id": "string", "organizationId": "string", "version": 0 } }</pre>	<pre>{ "attributes": { "amount": 0.0, "beneficiaryParty": { "accountName": "string", "accountNumber": "string", "address": "string", "bankId": "string", "bankIdCode": "string", "name": "string" }, "currency": "string", "paymentId": "string", "paymentPurpose": "string", "paymentType": "string", "processingDate": "string", "organisationId": "string" } }</pre>