

# Classic Payments Application

VB

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# Introduction

It's a classic application exposing very basic Payments RESTful API. It contains minimal business logic to imitate transactions processing.



Please do not use this application in production.

# Application Components

Application follows classic design pattern where data is stored one relational database and application runs in a container.

Application utilizes [Spring Boot](#) and following framework components

Component	Purpose
Spring Boot	Application Core framework.
Spring Boot Data JPA	Data access layer component. Used to manage application data. Might be replaced in the future with alternative datastore.
Spring Boot Web	Rest API component used to develop API controller.
Spring Rest Docs	Rest API documentation component. Used to generate API usage examples from testing data.
Relational database	Used to store application data. H2 database is used for testing purposes.
JDK 12 Container	Application runtime environment.
Docker	Container Engine used build Docker images.
Kubernetes/Openshift	Container platform used to run application. Application can run on pretty much any other container platform e.g. AWS ECS.

# API Design

Application consists of following REST API endpoints

API Endpoint	HTTP Method	Payload	Response	Purpose	Documentation
/v1/payments/{id}	GET	-	Payment JSON	Payment details retrieval by unique ID	See <a href="#">Getting Payment Details</a>
/v1/payments/{id}	PUT	Payment JSON	HTTP Status code	API endpoint used to update Payment details	See <a href="#">Updating Payment Details</a>
/v1/payments/{id}	DELETE	-	HTTP Status code	API endpoint used to delete single payment. Use with caution.	See <a href="#">Deleting Payment Details</a>
/v1/payments/	POST	Payment Request Payload	Payment JSON object	Payment Creation API endpoint. Accepts Payment Request which is processed and transformed into Payment.	See <a href="#">Creating a Payment</a>
/v1/payments/	GET	-	List of Payment JSON Objects	API endpoint used to retrieve all payment object. Supports paging and sorting	See <a href="#">List Payments</a>
/v1/payments/	PATCH	List of Payment JSON Objects	Payment IDs list	Bulk import/update for Payments	See <a href="#">Bulk Import/Export Payments</a>

# Building and Running the Application

Clone application source and build Docker image by running following command:

```
$ docker build -t payments-app .
```

You can test image locally by executing

```
$ docker run -p 8080:8080 payments-app
```

Promote image into external image repository and then deploy it on Kubernetes Cluster

```
$ kubectl run payments-app --image=<image_tag> --port=8080
```

Application by default application is using in-memory database. To make it look more like "production" deployment it should be linked with relational database container.

# API usage

Further sections provides more details about each API endpoint usage. Samples are using <http://localhost:8080> as an application URL.

## Creating a Payment

You can create a Payment by performing **POST** request against API endpoint `/v1/payments/`.

### Payload

Payment Request should be submitted as following payload

```
{
  "sender_name" : "Wilfred Jeremiah Owens",
  "sender_account_number" : "31926819",
  "sender_account_number_code" : "BBAN",
  "receiver_name" : "Emelia Jane Brown",
  "receiver_account_number" : "GB29XABC10161234567801",
  "receiver_account_number_code" : "IBAN",
  "payment_purpose" : "Server payment",
  "currency" : "GBP",
  "amount" : 200,
  "reference" : "Test reference"
}
```

Payload details

Path	Type	Description
<code>sender_name</code>	String	Sender name
<code>sender_account_number</code>	String	Sender account number
<code>sender_account_number_code</code>	String	Account sender name
<code>receiver_name</code>	String	Receiver name
<code>receiver_account_number</code>	String	Receiver Account Number
<code>receiver_account_number_code</code>	String	Receiver Account Number code
<code>payment_purpose</code>	String	Payment Purpose
<code>amount</code>	Number	Amount
<code>currency</code>	String	Currency code e.g. GBP
<code>reference</code>	String	Payment reference

### Examples

Payment creation example

```
$ curl 'http://localhost:8080/v1/payments/' -i -X POST \
-H 'Content-Type: application/json' \
-d '{
  "sender_name" : "Wilfred Jeremiah Owens",
  "sender_account_number" : "31926819",
  "sender_account_number_code" : "BBAN",
  "receiver_name" : "Emelia Jane Brown",
  "receiver_account_number" : "GB29XABC10161234567801",
  "receiver_account_number_code" : "IBAN",
  "payment_purpose" : "Server payment",
  "currency" : "GBP",
  "amount" : 200,
  "reference" : "Test reference"
}'
```

API will respond with following response

```
HTTP/1.1 201 Created
Content-Length: 2065
Content-Type: application/json; charset=UTF-8

{
  "id" : "0026222e-d397-4a20-a4e8-acb6fe4326d5",
  "version" : 0,
  "sender" : {
    "id" : "2914fad0-ee9b-4569-b9e3-e3fc20e8360a",
    "account_name" : "W Owens",
    "account_number" : "31926819",
    "account_number_code" : "BBAN",
    "account_type" : 0,
    "address" : "1 The Beneficiary Localtown SE2",
    "bank_id" : "403000",
    "bank_id_code" : "GBDSC",
    "name" : "Wilfred Jeremiah Owens",
    "currency" : "GBP"
  },
  "receiver" : {
    "id" : "65c27d5f-464a-495c-a470-c85d2a0b616b",
    "account_name" : "EJ Brown Black",
    "account_number" : "GB29XABC10161234567801",
    "account_number_code" : "IBAN",
    "account_type" : null,
    "address" : "10 Debtor Crescent Sourcetown NE1",
    "bank_id" : "203301",
    "bank_id_code" : "GBDSC",
    "name" : "Emelia Jane Brown",
    "currency" : "GBP"
  },
  "paymentChargeDetails" : {
```



```

    "id" : "cca8b38d-5e48-4948-9364-fed1f1f8925f",
    "senderCharges" : [ {
      "id" : "aa507cff-7bd3-41ab-9a49-cac2c841b6ef",
      "receiver_charges_amount" : 5.0,
      "currency" : "GBP"
    }, {
      "id" : "cfe15bd0-3c98-4d0a-b786-ca5a15763448",
      "receiver_charges_amount" : 10.0,
      "currency" : "GBP"
    } ],
    "bearer_code" : "SHAR",
    "sender_charges" : {
      "id" : "d7679de0-1e93-4f99-a087-5977cb72d684",
      "contract_reference" : "FX123",
      "exchange_rate" : 2.0000,
      "original_amount" : 200.42,
      "original_currency" : "USD"
    },
    "receiver_charges_amount" : 1.00,
    "receiver_charges_currency" : "GBP"
  },
  "amount" : 200,
  "currency" : "GBP",
  "numeric_reference" : "1002001",
  "end_to_end_reference" : "Wil piano Jan",
  "payment_purpose" : "Server payment",
  "payment_scheme" : "FPS",
  "payment_type" : "Credit",
  "processing_date" : "2019-03-11T18:51:54.288+0000",
  "payment_id" : "123456789012345678",
  "reference" : "Test reference",
  "scheme_payment_sub_type" : "InternetBanking",
  "scheme_payment_type" : "ImmediatePayment",
  "sponsor_account_number" : "56781234",
  "sponsor_bank_id" : "123123",
  "sponsor_bank_id_code" : "GBDSC"
}

```

## Getting Payment Details

You can get Payment details by performing **GET** request against API endpoint `/v1/payments/{id}` where `{id}` is unique payment id.

### Examples

```

$ curl 'http://localhost:8080/v1/payments/16196839-2f28-4bd4-a084-724fca3e16bf' -i -X
GET \
-H 'Content-Type: application/json'

```

API will respond with following response

```
HTTP/1.1 200 OK
Content-Length: 2050
Content-Type: application/json; charset=UTF-8

{
  "id" : "16196839-2f28-4bd4-a084-724fca3e16bf",
  "version" : 0,
  "sender" : {
    "id" : "2914fad0-ee9b-4569-b9e3-e3fc20e8360a",
    "account_name" : "W Owens",
    "account_number" : "31926819",
    "account_number_code" : "BBAN",
    "account_type" : 0,
    "address" : "1 The Beneficiary Localtown SE2",
    "bank_id" : "403000",
    "bank_id_code" : "GBDSC",
    "name" : "Wilfred Jeremiah Owens",
    "currency" : "GBP"
  },
  "receiver" : {
    "id" : "65c27d5f-464a-495c-a470-c85d2a0b616b",
    "account_name" : "EJ Brown Black",
    "account_number" : "GB29XABC10161234567801",
    "account_number_code" : "IBAN",
    "account_type" : null,
    "address" : "10 Debtor Crescent Sourcetown NE1",
    "bank_id" : "203301",
    "bank_id_code" : "GBDSC",
    "name" : "Emelia Jane Brown",
    "currency" : "GBP"
  },
  "paymentChargeDetails" : {
    "id" : "8a3b318f-8b8f-45b5-985a-740c72bbe7bd",
    "senderCharges" : [ {
      "id" : "b9f432a2-bcb9-4a6b-9541-7aefe3eba1ea",
      "receiver_charges_amount" : 5.00,
      "currency" : "GBP"
    }, {
      "id" : "361d53a5-e066-4673-99e4-bc6f2152fec1",
      "receiver_charges_amount" : 10.00,
      "currency" : "GBP"
    } ],
    "bearer_code" : "SHAR",
    "sender_charges" : {
      "id" : "429590c1-678d-4785-bb57-f278c5499fc7",
      "contract_reference" : "FX123",
      "exchange_rate" : 2.00,
      "original_amount" : 200.42,
```

```
    "original_currency" : "USD"
  },
  "receiver_charges_amount" : 1.00,
  "receiver_charges_currency" : "GBP"
},
"amount" : 200.00,
"currency" : "GBP",
"numeric_reference" : "1002001",
"end_to_end_reference" : "Wil piano Jan",
"payment_purpose" : "Server payment",
"payment_scheme" : "FPS",
"payment_type" : "Credit",
"processing_date" : "2019-03-11",
"payment_id" : "123456789012345678",
"reference" : "Test reference",
"scheme_payment_sub_type" : "InternetBanking",
"scheme_payment_type" : "ImmediatePayment",
"sponsor_account_number" : "56781234",
"sponsor_bank_id" : "123123",
"sponsor_bank_id_code" : "GBDSC"
}
```

## Deleting Payment Details

You can delete Payment details by performing **DELETE** request against API endpoint `/v1/payments/{id}` where `{id}` is unique payment id.

### Examples

```
$ curl 'http://localhost:8080/v1/payments/987419da-5d19-44bd-bf14-a4756ce80af8/' -i -X
DELETE \
-H 'Accept: application/json'
```

API will respond with following response

```
HTTP/1.1 200 OK
```

## Updating Payment Details

You can update Payment details by performing **PUT** request against API endpoint `/v1/payments/{id}` where `{id}` is unique payment id.

Successful operation will result with HTTP response code

```
HTTP/1.1 202 Accepted
```

## Examples

```
$ curl 'http://localhost:8080/v1/payments/8e9e5429-d31e-4f07-b290-378276338cf0' -i -X
PUT \
  -H 'Content-Type: application/json' \
  -d '{
    "id" : "8e9e5429-d31e-4f07-b290-378276338cf0",
    "version" : 0,
    "sender" : {
      "id" : "2914fad0-ee9b-4569-b9e3-e3fc20e8360a",
      "account_name" : "W Owens",
      "account_number" : "31926819",
      "account_number_code" : "BBAN",
      "account_type" : 0,
      "address" : "1 The Beneficiary Localtown SE2",
      "bank_id" : "403000",
      "bank_id_code" : "GBDSC",
      "name" : "Wilfred Jeremiah Owens",
      "currency" : "GBP"
    },
    "receiver" : {
      "id" : "65c27d5f-464a-495c-a470-c85d2a0b616b",
      "account_name" : "EJ Brown Black",
      "account_number" : "GB29XABC10161234567801",
      "account_number_code" : "IBAN",
      "account_type" : null,
      "address" : "10 Debtor Crescent Sourcetown NE1",
      "bank_id" : "203301",
      "bank_id_code" : "GBDSC",
      "name" : "Emelia Jane Brown",
      "currency" : "GBP"
    },
    "paymentChargeDetails" : {
      "id" : "c9636a33-6ed3-4d0b-93e9-2829142a5eea",
      "senderCharges" : [ {
        "id" : "d2b032d8-67d5-41e0-a78d-6bdf8b3f034f",
        "receiver_charges_amount" : 5.0,
        "currency" : "GBP"
      }, {
        "id" : "9244fd97-b5a1-41c4-8ae4-0d9f8b74dfc4",
        "receiver_charges_amount" : 10.0,
        "currency" : "GBP"
      } ],
      "bearer_code" : "SHAR",
      "sender_charges" : {
        "id" : "f031a2fd-a534-4b5a-9173-abf19e6bc18b",
        "contract_reference" : "FX123",
        "exchange_rate" : 2.0000,
        "original_amount" : 200.42,
        "original_currency" : "USD"
      }
    }
  }
```

```

    },
    "receiver_charges_amount" : 1.00,
    "receiver_charges_currency" : "GBP"
  },
  "amount" : 200,
  "currency" : "GBP",
  "numeric_reference" : "1002001",
  "end_to_end_reference" : "Wil piano Jan",
  "payment_purpose" : "Server payment",
  "payment_scheme" : "FPS",
  "payment_type" : "Credit",
  "processing_date" : "2019-03-11T18:51:54.370+0000",
  "payment_id" : "123456789012345678",
  "reference" : "updated reference",
  "scheme_payment_sub_type" : "InternetBanking",
  "scheme_payment_type" : "ImmediatePayment",
  "sponsor_account_number" : "56781234",
  "sponsor_bank_id" : "123123",
  "sponsor_bank_id_code" : "GBDSC"
}'

```

## List Payments

You can list existing payments by performing **GET** request against API endpoint [/v1/payments/](#).

Successful operation will result with following response

```

$ curl 'http://localhost:8080/v1/payments/' -i -X GET \
-H 'Accept: application/json'

```

## Bulk Import/Export Payments

You can create or update multiple payments by performing **PATCH** request against API endpoint [/v1/payments/](#).

### Payload

You should provide JSON array List containing Payments as Payload. Successful operation will return Payment IDs array which you could use to make further API calls.

Sample payload

```

[ {
  "id" : "14b5a40e-9121-4cd6-b5ba-74f2333bdad5",
  "version" : 0,
  "sender" : {
    "id" : "2914fad0-ee9b-4569-b9e3-e3fc20e8360a",

```

```

"account_name" : "W Owens",
"account_number" : "31926819",
"account_number_code" : "BBAN",
"account_type" : 0,
"address" : "1 The Beneficiary Localtown SE2",
"bank_id" : "403000",
"bank_id_code" : "GBDSC",
"name" : "Wilfred Jeremiah Owens",
"currency" : "GBP"
},
"receiver" : {
  "id" : "65c27d5f-464a-495c-a470-c85d2a0b616b",
  "account_name" : "EJ Brown Black",
  "account_number" : "GB29XABC10161234567801",
  "account_number_code" : "IBAN",
  "account_type" : null,
  "address" : "10 Debtor Crescent Sourcetown NE1",
  "bank_id" : "203301",
  "bank_id_code" : "GBDSC",
  "name" : "Emelia Jane Brown",
  "currency" : "GBP"
},
"paymentChargeDetails" : {
  "id" : "fc86e427-16d2-4e23-8cda-f9d966964d82",
  "senderCharges" : [ {
    "id" : "11ddd823-8a77-4754-a67b-782932c95035",
    "receiver_charges_amount" : 5.0,
    "currency" : "GBP"
  }, {
    "id" : "e485bd57-154e-4d20-b5dd-88ce121591ad",
    "receiver_charges_amount" : 10.0,
    "currency" : "GBP"
  } ],
  "bearer_code" : "SHAR",
  "sender_charges" : {
    "id" : "87e9893e-df37-436f-ae0d-8840335c1fbf",
    "contract_reference" : "FX123",
    "exchange_rate" : 2.0000,
    "original_amount" : 200.42,
    "original_currency" : "USD"
  },
  "receiver_charges_amount" : 1.0,
  "receiver_charges_currency" : "GBP"
},
"amount" : 200,
"currency" : "GBP",
"numeric_reference" : "1002001",
"end_to_end_reference" : "Wil piano Jan",
"payment_purpose" : "Server payment",
"payment_scheme" : "FPS",
"payment_type" : "Credit",

```

```

"processing_date" : "2019-03-10T23:53:19.798+0000",
"payment_id" : "123456789012345678",
"reference" : "Test reference",
"scheme_payment_sub_type" : "InternetBanking",
"scheme_payment_type" : "ImmediatePayment",
"sponsor_account_number" : "56781234",
"sponsor_bank_id" : "123123",
"sponsor_bank_id_code" : "GBDSC"
}, {
  "id" : "21320039-85d7-4dd2-ab76-f4f3ef1c0bf8",
  "version" : 0,
  "sender" : {
    "id" : "2914fad0-ee9b-4569-b9e3-e3fc20e8360a",
    "account_name" : "W Owens",
    "account_number" : "31926819",
    "account_number_code" : "BBAN",
    "account_type" : 0,
    "address" : "1 The Beneficiary Localtown SE2",
    "bank_id" : "403000",
    "bank_id_code" : "GBDSC",
    "name" : "Wilfred Jeremiah Owens",
    "currency" : "GBP"
  },
  "receiver" : {
    "id" : "65c27d5f-464a-495c-a470-c85d2a0b616b",
    "account_name" : "EJ Brown Black",
    "account_number" : "GB29XABC10161234567801",
    "account_number_code" : "IBAN",
    "account_type" : null,
    "address" : "10 Debtor Crescent Sourcetown NE1",
    "bank_id" : "203301",
    "bank_id_code" : "GBDSC",
    "name" : "Emelia Jane Brown",
    "currency" : "GBP"
  },
  "paymentChargeDetails" : {
    "id" : "af3c59fa-4313-417e-9599-fa79fcb47c9e",
    "senderCharges" : [ {
      "id" : "219e191d-9e4a-4281-a0e1-c4d2c396ff86",
      "receiver_charges_amount" : 5.0,
      "currency" : "GBP"
    }, {
      "id" : "7149646b-6211-4bf8-a388-7b858bc38232",
      "receiver_charges_amount" : 10.0,
      "currency" : "GBP"
    } ],
    "bearer_code" : "SHAR",
    "sender_charges" : {
      "id" : "b5fe7980-16b2-45b2-8a2b-b734f797be61",
      "contract_reference" : "FX123",
      "exchange_rate" : 2.0000,

```

```

    "original_amount" : 200.42,
    "original_currency" : "USD"
  },
  "receiver_charges_amount" : 1.0,
  "receiver_charges_currency" : "GBP"
},
"amount" : 200,
"currency" : "GBP",
"numeric_reference" : "1002001",
"end_to_end_reference" : "Wil piano Jan",
"payment_purpose" : "Server payment",
"payment_scheme" : "FPS",
"payment_type" : "Credit",
"processing_date" : "2019-03-10T23:55:17.537+0000",
"payment_id" : "123456789012345678",
"reference" : "Test reference",
"scheme_payment_sub_type" : "InternetBanking",
"scheme_payment_type" : "ImmediatePayment",
"sponsor_account_number" : "56781234",
"sponsor_bank_id" : "123123",
"sponsor_bank_id_code" : "GBDSC"
}, {
  "id" : "ca26e572-35cd-460d-a045-b1ff8f3c99ba",
  "version" : 0,
  "sender" : {
    "id" : "2914fad0-ee9b-4569-b9e3-e3fc20e8360a",
    "account_name" : "W Owens",
    "account_number" : "31926819",
    "account_number_code" : "BBAN",
    "account_type" : 0,
    "address" : "1 The Beneficiary Localtown SE2",
    "bank_id" : "403000",
    "bank_id_code" : "GBDSC",
    "name" : "Wilfred Jeremiah Owens",
    "currency" : "GBP"
  },
  "receiver" : {
    "id" : "65c27d5f-464a-495c-a470-c85d2a0b616b",
    "account_name" : "EJ Brown Black",
    "account_number" : "GB29XABC10161234567801",
    "account_number_code" : "IBAN",
    "account_type" : null,
    "address" : "10 Debtor Crescent Sourtetown NE1",
    "bank_id" : "203301",
    "bank_id_code" : "GBDSC",
    "name" : "Emelia Jane Brown",
    "currency" : "GBP"
  },
  "paymentChargeDetails" : {
    "id" : "50e14aa8-3de5-4e46-b850-6571cb3a4109",
    "senderCharges" : [ {

```



```

    "id" : "36385878-6d2f-497c-8e65-f4d0fe274d35",
    "receiver_charges_amount" : 5.0,
    "currency" : "GBP"
  }, {
    "id" : "79d93677-e462-45b5-8e24-70cbe7c97a9a",
    "receiver_charges_amount" : 10.0,
    "currency" : "GBP"
  } ],
  "bearer_code" : "SHAR",
  "sender_charges" : {
    "id" : "92efe557-2be3-4529-88df-07e9fa51740e",
    "contract_reference" : "FX123",
    "exchange_rate" : 2.0000,
    "original_amount" : 200.42,
    "original_currency" : "USD"
  },
  "receiver_charges_amount" : 1.00,
  "receiver_charges_currency" : "GBP"
},
"amount" : 200,
"currency" : "GBP",
"numeric_reference" : "1002001",
"end_to_end_reference" : "Wil piano Jan",
"payment_purpose" : "Server payment",
"payment_scheme" : "FPS",
"payment_type" : "Credit",
"processing_date" : "2019-03-11T18:51:53.798+0000",
"payment_id" : "123456789012345678",
"reference" : "Updated payment",
"scheme_payment_sub_type" : "InternetBanking",
"scheme_payment_type" : "ImmediatePayment",
"sponsor_account_number" : "56781234",
"sponsor_bank_id" : "123123",
"sponsor_bank_id_code" : "GBDSC"
} ]

```

## Sample response

```

[ "f5758375-30c9-40ab-a901-cdd42fbcdc6c", "56536afc-c75a-4047-8376-7866dfc64539",
  "ca26e572-35cd-460d-a045-b1ff8f3c99ba" ]

```

## Examples

```

$ curl 'http://localhost:8080/v1/payments/' -i -X PATCH \
  -H 'Accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '[ {
    "id" : "14b5a40e-9121-4cd6-b5ba-74f2333bdad5",

```

```

"version" : 0,
"sender" : {
  "id" : "2914fad0-ee9b-4569-b9e3-e3fc20e8360a",
  "account_name" : "W Owens",
  "account_number" : "31926819",
  "account_number_code" : "BBAN",
  "account_type" : 0,
  "address" : "1 The Beneficiary Localtown SE2",
  "bank_id" : "403000",
  "bank_id_code" : "GBDSC",
  "name" : "Wilfred Jeremiah Owens",
  "currency" : "GBP"
},
"receiver" : {
  "id" : "65c27d5f-464a-495c-a470-c85d2a0b616b",
  "account_name" : "EJ Brown Black",
  "account_number" : "GB29XABC10161234567801",
  "account_number_code" : "IBAN",
  "account_type" : null,
  "address" : "10 Debtor Crescent Sourcetown NE1",
  "bank_id" : "203301",
  "bank_id_code" : "GBDSC",
  "name" : "Emelia Jane Brown",
  "currency" : "GBP"
},
"paymentChargeDetails" : {
  "id" : "fc86e427-16d2-4e23-8cda-f9d966964d82",
  "senderCharges" : [ {
    "id" : "11ddd823-8a77-4754-a67b-782932c95035",
    "receiver_charges_amount" : 5.0,
    "currency" : "GBP"
  }, {
    "id" : "e485bd57-154e-4d20-b5dd-88ce121591ad",
    "receiver_charges_amount" : 10.0,
    "currency" : "GBP"
  } ],
  "bearer_code" : "SHAR",
  "sender_charges" : {
    "id" : "87e9893e-df37-436f-ae0d-8840335c1fbf",
    "contract_reference" : "FX123",
    "exchange_rate" : 2.0000,
    "original_amount" : 200.42,
    "original_currency" : "USD"
  },
  "receiver_charges_amount" : 1.0,
  "receiver_charges_currency" : "GBP"
},
"amount" : 200,
"currency" : "GBP",
"numeric_reference" : "1002001",
"end_to_end_reference" : "Wil piano Jan",

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"payment_purpose" : "Server payment",
"payment_scheme" : "FPS",
"payment_type" : "Credit",
"processing_date" : "2019-03-10T23:53:19.798+0000",
"payment_id" : "123456789012345678",
"reference" : "Test reference",
"scheme_payment_sub_type" : "InternetBanking",
"scheme_payment_type" : "ImmediatePayment",
"sponsor_account_number" : "56781234",
"sponsor_bank_id" : "123123",
"sponsor_bank_id_code" : "GBDSC"
}, {
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  "version" : 0,
  "sender" : {
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    "account_name" : "W Owens",
    "account_number" : "31926819",
    "account_number_code" : "BBAN",
    "account_type" : 0,
    "address" : "1 The Beneficiary Localtown SE2",
    "bank_id" : "403000",
    "bank_id_code" : "GBDSC",
    "name" : "Wilfred Jeremiah Owens",
    "currency" : "GBP"
  },
  "receiver" : {
    "id" : "65c27d5f-464a-495c-a470-c85d2a0b616b",
    "account_name" : "EJ Brown Black",
    "account_number" : "GB29XABC10161234567801",
    "account_number_code" : "IBAN",
    "account_type" : null,
    "address" : "10 Debtor Crescent Sourcetown NE1",
    "bank_id" : "203301",
    "bank_id_code" : "GBDSC",
    "name" : "Emelia Jane Brown",
    "currency" : "GBP"
  },
  "paymentChargeDetails" : {
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    "senderCharges" : [ {
      "id" : "219e191d-9e4a-4281-a0e1-c4d2c396ff86",
      "receiver_charges_amount" : 5.0,
      "currency" : "GBP"
    }, {
      "id" : "7149646b-6211-4bf8-a388-7b858bc38232",
      "receiver_charges_amount" : 10.0,
      "currency" : "GBP"
    } ],
    "bearer_code" : "SHAR",
    "sender_charges" : {

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    "id" : "b5fe7980-16b2-45b2-8a2b-b734f797be61",
    "contract_reference" : "FX123",
    "exchange_rate" : 2.0000,
    "original_amount" : 200.42,
    "original_currency" : "USD"
  },
  "receiver_charges_amount" : 1.0,
  "receiver_charges_currency" : "GBP"
},
"amount" : 200,
"currency" : "GBP",
"numeric_reference" : "1002001",
"end_to_end_reference" : "Wil piano Jan",
"payment_purpose" : "Server payment",
"payment_scheme" : "FPS",
"payment_type" : "Credit",
"processing_date" : "2019-03-10T23:55:17.537+0000",
"payment_id" : "123456789012345678",
"reference" : "Test reference",
"scheme_payment_sub_type" : "InternetBanking",
"scheme_payment_type" : "ImmediatePayment",
"sponsor_account_number" : "56781234",
"sponsor_bank_id" : "123123",
"sponsor_bank_id_code" : "GBDSC"
}, {
  "id" : "ca26e572-35cd-460d-a045-b1ff8f3c99ba",
  "version" : 0,
  "sender" : {
    "id" : "2914fad0-ee9b-4569-b9e3-e3fc20e8360a",
    "account_name" : "W Owens",
    "account_number" : "31926819",
    "account_number_code" : "BBAN",
    "account_type" : 0,
    "address" : "1 The Beneficiary Localtown SE2",
    "bank_id" : "403000",
    "bank_id_code" : "GBDSC",
    "name" : "Wilfred Jeremiah Owens",
    "currency" : "GBP"
  },
  "receiver" : {
    "id" : "65c27d5f-464a-495c-a470-c85d2a0b616b",
    "account_name" : "EJ Brown Black",
    "account_number" : "GB29XABC10161234567801",
    "account_number_code" : "IBAN",
    "account_type" : null,
    "address" : "10 Debtor Crescent Sourcetown NE1",
    "bank_id" : "203301",
    "bank_id_code" : "GBDSC",
    "name" : "Emelia Jane Brown",
    "currency" : "GBP"
  }
},

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"paymentChargeDetails" : {
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  "senderCharges" : [ {
    "id" : "36385878-6d2f-497c-8e65-f4d0fe274d35",
    "receiver_charges_amount" : 5.0,
    "currency" : "GBP"
  }, {
    "id" : "79d93677-e462-45b5-8e24-70cbe7c97a9a",
    "receiver_charges_amount" : 10.0,
    "currency" : "GBP"
  } ],
  "bearer_code" : "SHAR",
  "sender_charges" : {
    "id" : "92efe557-2be3-4529-88df-07e9fa51740e",
    "contract_reference" : "FX123",
    "exchange_rate" : 2.0000,
    "original_amount" : 200.42,
    "original_currency" : "USD"
  },
  "receiver_charges_amount" : 1.00,
  "receiver_charges_currency" : "GBP"
},
"amount" : 200,
"currency" : "GBP",
"numeric_reference" : "1002001",
"end_to_end_reference" : "Wil piano Jan",
"payment_purpose" : "Server payment",
"payment_scheme" : "FPS",
"payment_type" : "Credit",
"processing_date" : "2019-03-11T18:51:53.798+0000",
"payment_id" : "123456789012345678",
"reference" : "Updated payment",
"scheme_payment_sub_type" : "InternetBanking",
"scheme_payment_type" : "ImmediatePayment",
"sponsor_account_number" : "56781234",
"sponsor_bank_id" : "123123",
"sponsor_bank_id_code" : "GBDSC"
} ]'

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