BOOK REST-API ASSIGNMENT DOCUMENTATION BY SANDERS

The following is for adding a category to the database:

curl request

```
$ curl 'http://localhost:8080/category' -i -X POST \
    -H 'Content-Type: application/json;charset=UTF-8' \
    -d '{
  "id" : 2,
  "title" : "novel"
}'
```

http request

```
POST /category HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 35
Host: localhost:8080

{
  "id" : 2,
  "title" : "novel"
}
```

response

```
HTTP/1.1 201 Created
Content-Type: application/json
Content-Length: 89

{"successful":true,"description":"Book Category created
successfully","responseCode":201}
```

The following is for adding a book

curl request

```
$ curl 'http://localhost:8080/book' -i -X POST \
    -H 'Content-Type: application/json;charset=UTF-8' \
    -d '{
  "id" : 2,
  "title" : "A fairytale of Love and passion",
  "description" : "A Book by Jordan Sanderson",
  "price" : 59.78,
  "category" : {
    "id" : 2,
    "title" : null
  }
}'
```

http request

```
POST /book HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 183
Host: localhost:8080

{
  "id" : 2,
  "title" : "A fairytale of Love and passion",
  "description" : "A Book by Jordan Sanderson",
  "price" : 59.78,
  "category" : {
    "id" : 2,
    "title" : null
  }
}
```

response

```
HTTP/1.1 201 Created
Content-Type: application/json
Content-Length: 83

{"successful":true,"description":"Book was saved successfully!","responseCode":201}
```

The following is for retrieving all books

curl request

```
$ curl 'http://localhost:8080/book' -i -X GET \
    -H 'Content-Type: application/json;charset=UTF-8'
```

```
GET /book HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 285

[{"id":2,"title":"A fairytale of Love and passion","description":"A Book by Jordan
Sanderson","price":59.78,"category":{"id":2,"title":"novel"}},{"id":1,"title":"Mechani
cs","description":"A Level Mechanics by Stewart
Michael's","price":20.59,"category":{"id":1,"title":"mathematics"}}]
```

The following is for retrieving a book in a certain category

curl request

```
$ curl 'http://localhost:8080/book/2' -i -X GET \
    -H 'Content-Type: application/json;charset=UTF-8'
```

http request

```
GET /book/2 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 146

[{"id":2,"title":"A fairytale of Love and passion","description":"A Book by Jordan
Sanderson","price":5978.0,"category":{"id":2,"title":"novel"}}]
```

The following is for making a book purchase

curl request

```
$ curl 'http://localhost:8080/transaction' -i -X POST \
    -H 'Content-Type: application/json;charset=UTF-8' \
    -d '{
  "type" : "PURCHASE",
  "extendedType" : "NONE",
  "amount" : 59.78,
  "created" : "2022-03-07T14:55:14.069+02:00",
  "reference" : "0fcd8c8e-4a94-4003-8d76-cc8637f64a8c",
  "narration" : "Test Narration",
  "additionalData" : {
    "cardHolder" : "Sanders"
  },
  "card" : {
    "id" : "1234560000000001",
    "expiry" : "2022-10-09"
  }
}'
```

http request

```
POST /transaction HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 343
Host: localhost:8080

{
  "type" : "PURCHASE",
  "extendedType" : "NONE",
  "amount" : 59.78,
  "created" : "2022-03-07T14:55:14.069+02:00",
  "reference" : "0fcd8c8e-4a94-4003-8d76-cc8637f64a8c",
  "narration" : "Test Narration",
  "additionalData" : {
    "cardHolder" : "Sanders"
  },
  "card" : {
    "id" : "1234560000000001",
    "expiry" : "2022-10-09"
  }
}
```

response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 204
```

```
{"reference":"85855c69-2385-4517-bff8-f234a06e6662","updated":"2022-04-
29T07:18:07.803+00:00","responseCode":"000","responseDescription":"Approved","debitRef
erence":"da7ae01a-96e9-4e00-b3d4-79cf33a84cfd"}
```