ZSS Challenge Documentation

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Dear recruiting executive

The solution to this challenge was **NOT** done to **best practice**. The Developer deliberately developed in that way to respond to the main Objectives in Question. I am available to discuss best programming practices as far as transaction processing is concerned.

Business Logic

- 1. Add new BOOK
- 2. Add new Category
- 3. Search Books By Category
- 4. Search Books By Title
- 5. Search Books By Description
- 6. Purchase Book
 - a. Add your book to CART
 - b. Pay Book

This Solution was developed using MySQL Database, Kindly Add to your Database Connections to

Applications.Properties FILE in /demoMysqltutorial/src/main/resources

Kindly Call me for any help in integrating with your Database

Create books

http://localhost:8080/api/v1/Book_Add

Method	POST

NB

Books Belong to valid Categories

Create Category First and assign a valid Id from Category to a book

```
Sample Request
                                                    Sample Response
"title": "Pre-School Day 1",
                                                        "id": 80,
"description": "Pre School Book",
                                                        "title": "Pre-School Day 1",
"price": 20.25,
                                                        "description": "Pre School Book",
"purchase_status": "Available",
                                                        "price": 20.25,
                                                        "purchase_status": "Available",
"created_by": "Alfred",
"created_date": "2022-01-17T00:00:00.000+00:00",
                                                        "created_by": "Alfred",
"category": 0
                                                        "created_date": "2022-01-
                                                    17T00:00:00.000+00:00",
                                                        "category": 0,
                                                        "purchasereference": null,
                                                        "updated": null,
                                                        "responseCode": null,
                                                        "responseDescription": null,
                                                        "debitReference": null
```

Create Category

http://localhost:8080/api/v1/Category_Add

Method	POST

```
Sample Request

{

"category_code": "Drama001",

"categorytitle": "Drama Queens",

"category_description": "Drama Books for Level 1 Students",

"created_by": "Alfred",

"created_date": "2022-03-08T11:28:39.4+02:00"

}

Sample Response

{

"id": 82,

"category_code": "Drama001",

"category_code": "Drama Queens",

"category_description": "Drama Books for

"created_by": "Alfred",

"created_by": "Alfred",

"created_date": "2022-03-08T09:28:39.4000)

}
```

Search Book By Title

http://localhost:8080/api/v1/Books_Search_By_Title

Method	POST

NB – Search phrase can be even 1 letter

```
Sample Request
                                             Sample Response
 "title": "School"
                                                     "id": 83,
                                                     "title": "Pre-School Day 1",
                                                     "description": "Pre School Book",
                                                     "price": 20.25,
                                                     "purchase_status": "Available",
                                                     "created_by": "Alfred",
                                                     "created_date": "2022-01-17T00:00:00.000+00:00",
                                                     "category": 82,
                                                     "purchasereference": null,
                                                     "updated": null,
                                                     "responseCode": null,
                                                     "responseDescription": null,
                                                     "debitReference": null
```

Search Book By Description

http://localhost:8080/api/v1/Books_Search_By_Description

Method	POST

NB – Search phrase can be even 1 letter

```
Sample Request
                                             Sample Response
 "description": "School"
                                                     "id": 83,
                                                     "title": "Pre-School Day 1",
                                                     "description": "Pre School Book",
                                                     "price": 20.25,
                                                     "purchase_status": "Available",
                                                     "created_by": "Alfred",
                                                     "created_date": "2022-01-17T00:00:00.000+00:00",
                                                     "category": 82,
                                                     "purchasereference": null,
                                                     "updated": null,
                                                     "responseCode": null,
                                                     "responseDescription": null,
                                                     "debitReference": null
```

Retrieve Books in a certain category

http://localhost:8080/api/v1/Books_By_Category/82

Method	GET

NB – Use path variable id (Pass Id from Category Class Model)

Purchase Book

Step 1 - Add Book to CART

http://localhost:8080/api/v1/Purchase_Book_Step01/49

Mathad	DIT
Method	PUI

NB – Use path variable id (Pass Id from Books)

Only Existing books are sold.

The Book is put in a Pending state and a Payment

```
Sample Response

{
    "id": 84,
    "title": "The King Of Harare",
    "description": "Harare based drama",
    "price": 20.25,
    "purchase_status": "Pending Payment",
    "created_by": "Alfred",
    "created_date": "2022-01-17T00:00:00.000+00:00",
    "category": 82,
    "purchasereference": "96209c9b-fa5a-4594-94ec-469a033986bb",
    "updated": null,
    "responseCode": null,
    "responseDescription": null,
    "debitReference": null
}
```

Step 2 - Commit Payment

Integration with ZSS Payment API

http://localhost:8080/api/v1/PurchaseBook

Method	PUT

NB – Consume ZSS Purchase API

Add the Purchase Reference Created In Step 1 above to the API reference

This will match the Payment to the Book

```
Sample Request
                                           Sample Response
 "type" : "PURCHASE",
                                               "id": 49,
 "extendedType" : "NONE",
                                               "title": "Little Star",
 "amount" : 123.33,
                                               "description": "Books for children",
 "created" : "2022-02-
                                               "price": "20.25",
14T11:28:39.4+02:00",
                                               "purchase_status": "Booked - Pending Payment",
  "card" : {
                                               "created_by": "Alfred",
   "id": "12345600000000001",
                                               "created_date": "2022-01-17T00:00:00.000+00:00",
   "expiry": "2020-01-01"
                                               "category": 0,
                                               "purchasereference": "33d0893a-4c0e-49cf-a373-7e67a64ce456",
 "reference": "96209c9b-fa5a-4594-
                                               "updated": "2022-03-08T09:35:48.000+00:00",
94ec-469a033986bb",
                                               "responseCode": "000",
 "narration" : "Test Narration",
                                               "responseDescription": "Approved",
 "additionalData" : {
                                               "debitReference": "d96ec0e4-27c6-4d25-bdd0-343c0f2bfc90"
    "SampleKey" : "This is a sample valu
```