



Java Developer – Code Assignment

Objective

The purpose of this service is to provide payment methods that are available for the customer to pay for video platform service.

The implementation of the service will be done in Java 8. A recommended framework for this is Spring Boot, but any other framework can be used. Any available open source java library can be used as a maven dependency.

Requirements:

- **All the responses should be fetched from DB**
- **SQL files to setup the database required from the beginning**
- **Instructions to run**
- **Upload to any Git repository (optional)**

Service will expose following endpoints

Get all payment methods

```
Method GET  
http://server_address/api/v1.0/configuration/payment-methods
```

Which will return all the payment methods available.

The response should contain a JSON array of payment-methods available for a particular country and in each payment-methods the plans available with their price points.

Sample Response

```
{
  "paymentMethods": [{
    "name": "credit card",
    "displayName": "credit card",
    "paymentType": "CREDIT_CARD",
    "paymentPlans": [{
      "id": 1,
      "netAmount": 5.99,
      "taxAmount": 0,
      "grossAmount": 5.99,
      "currency": "USD",
      "duration": "Month"
    }]
  },
  {
    "name": "alfa_lb",
    "displayName": "Alfa Lebanon",
    "paymentType": "MOBILE_CARRIER",
    "paymentPlans": [{
      "id": 72,
      "netAmount": 5.99,
      "taxAmount": 0,
      "grossAmount": 5.99,
      "currency": "USD",
      "duration": "Month"
    },
    {
      "id": 54,
      "netAmount": 10,
      "taxAmount": 0,
      "grossAmount": 10,
      "currency": "SAR",
      "duration": "Week"
    }
  ]
},
{
  "name": "voucher",
  "displayName": "Voucher",
  "paymentType": "VOUCHER"
}
]
```

Filtering

Examples:

```
Request:
GET
http://server_address/api/v1.0/configuration/payment-methods?name=credit+card
RESPONSE:
{
  "paymentMethods": [{
    "name": "credit card",
    "displayName": "credit card",
    "paymentType": "CREDIT_CARD",
    "paymentPlans": [{
      "id": 1,
      "netAmount": 5.99,
      "taxAmount": 0,
      "grossAmount": 5.99,
      "currency": "USD",
      "duration": "Month"
    }]
  }]
}
```

```
Request:
GET http://server_address/api/v1.0/configuration/payment-methods?id=72
RESPONSE:
{
  "paymentMethods": [{
    "name": "alfa_lb",
    "displayName": "Alfa Lebanon",
    "paymentType": "MOBILE_CARRIER",
    "paymentPlans": [{
      "id": 72,
      "netAmount": 5.99,
      "taxAmount": 0,

```

```
        "grossAmount": 5.99,  
        "currency": "USD",  
        "duration": "Month"  
    }  
  ]  
}
```

Adding a new payment method:

```
Method POST  
URL:http://server_address/api/v1.0/configuration/payment-methods
```

We will have POST API in which we will pass the payment method and it will show us when we will fetch the payment methods using GET API.

```
{  
  "paymentMethods": [{  
    "name": "_1b",  
    "displayName": "Alfa Lebanon",  
    "paymentType": "MOBILE_CARRIER",  
    "paymentPlans": [{  
      "id": 72,  
      "netAmount": 5.99,  
      "taxAmount": 0,  
      "grossAmount": 5.99,  
      "currency": "USD",  
      "duration": "Month"  
    }  
  ]  
}]  
}
```

Updating a payment method:

Method PUT

URL:

`http://server_address/api/v1.0/configuration/payment-methods?payment-methods={id}`

```
{
  "paymentMethods": [{
    "name": "_lb",
    "displayName": "Alfa Lebanon",
    "paymentType": "MOBILE_CARRIER",
    "paymentPlans": [{
      "id": 72,
      "netAmount": 5.99,
      "taxAmount": 0,
      "grossAmount": 5.99,
      "currency": "USD",
      "duration": "Month"
    }]
  }]
}
```