

# REQUIREMENT ANALYSIS

## USER STORY

Create an API to get deposit account information approaching maturity date

Task:

1. Requirement Analysis - Identify the Request and Response data
2. Create Raml to get deposit account information approaching maturity date
3. Create Spring boot App to get deposit account information approaching maturity date
  - a. Retrieve Data from DB table
  - b. Push Data to the Queue before exposing Data through API
  - c. Retrieve data from soap endpoint and expose as Rest API

## REQUEST

```
GET /accounts
Accept: application/json
accountType= deposit
currentDate= 15/10/2018
```

## RESPONSES

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=utf-8
[{"DepositAccount":
  {
    "AccountId": "1001001009768",
    "AccountType": "INSTALLMENT",
    "AccountNumber": "234576542345",
    "Nickname": "John",
    "Currency": "INR",
    "InterestRate": 9.50,
    "DisplayName": "Deposit Account",
    "BalanceAsOf": 2018-09-13,
    "CurrentBalance": 1200.00,
    "MaturityDate": 2018-12-12,
    "Status": "OPEN"
  },
  {
```

```
        "AccountId": "5601004509768",
        "AccountType": "401A",
        "AccountNumber": "1006476542345",
        "Nickname": "Doe",
        "Currency": "INR",
        "InterestRate": 9.50,
        "DisplayName": "Deposit Account",
        "BalanceAsOf": 2018-09-13,
        "CurrentBalance": 1200.00,
        "MaturityDate": 2018-12-12,
        "Status": "OPEN"
    }
}]
```

HTTP/1.1 204 No Content

Content-Type: application/json; charset=utf-8

```
{
  "String": "There is no deposit account which is getting
  matured in the next 15 days"
}
```

HTTP/1.1 400 Bad Request

Content-Type: application/json; charset=utf-8

```
{
  "Error":
  {
    "code": 400,
    "message": "Invalid Request please check your URL and
    parameters"
  }
}
```

HTTP/1.1 401 Unauthorized

Content-Type: application/json; charset=utf-8

```
{
  "Error":
  {
    "code": 401,
    "message": "Unauthorized Request"
  }
}
```

HTTP/1.1 404 Not Found

Content-Type: application/json; charset=utf-8

```
{
  "Error":
  {
    "code": 404,
    "message": "Resource not found"
  }
}
```

HTTP/1.1 405 Method not allowed

Content-Type: application/json; charset=utf-8

```
{
  "Error":
  {
    "code": 405,
    "message": "Method not allowed please check and verify
your request"
  }
}
```

HTTP/1.1 500 Internal Server Error

Content-Type: application/json; charset=utf-8

```
{
  "Error":
  {
    "code": 500,
    "message": "Internal Server Error"
  }
}
```

## TABLES

### AccountDescriptor:

FIELDS	TYPE	SIMPLE TYPE
AccountId	Identifier	String (max 128)
AccountType	AccountType	String
DisplayName	String	
Status	AccountStatus	String
Description	String	
AccountDescriptorId (PK)	Integer	
CustomerId	String	

**Account :**

<b>FIELDS</b>	<b>TYPE</b>	<b>SIMPLE TYPE</b>
AccountMasterId (PK)	Integer	
ParentAccountId	Identifier	String (max 128)
Nickname	string	
LineOfBusiness	string	
AccountNumber	string	
InterestRate	Number	Decimal
Currency	Currency	Currency Code
AccDescriptorId (FK - AccountDescriptor)	Integer	
TransferIn	Boolean	
TransferOut	Boolean	
InterestRateType	InterestRateType	String

**DepositAccount :**

<b>FIELDS</b>	<b>TYPE</b>	<b>SIMPLE TYPE</b>
RefAccountId (FK - Account)	Integer	
BalanceAsOf	Timestamp	
CurrentBalance	Number	Decimal
Term	Integer	
AvailableBalance	Number	Decimal
DepositAccountId (PK)	Integer	
MaturityDate	Timestamp	