**Requirement Document**

**User Story:**

Create an api to get list of customer for a bank located at particular location.

**Reference Table:**

Bank, Customer, Branch

**Request Field:**

POST /bank/customer

Accept: application/json

bankName=Axis Bank & branch=Nigdi

**Response:**

{

CustomerList{}

}

**List of Tables**

**1. Bank Entity:**

|  |  |
| --- | --- |
| **BankId** | **Name** |
| Primary Key |  |
|  |  |
|  |  |

**Bank Entity fields and there types**

|  |  |  |
| --- | --- | --- |
| **Filed** | **Type** | **Max Len** |
| BankId | Integer | 11 |
| Name | String | 120 |

**2. Branch Entity**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **BranchId** | **IFSC** | **Address** | **City** | **State** | **Country** | **Zip** | **Telephone** | **Email** | **BankID** | **BranchName** |
| Primary Key |  |  |  |  |  |  |  |  | Foreign Key |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

**Branch Entity fields and there types**

|  |  |  |
| --- | --- | --- |
| **Filed** | **Type** | **Max Len** |
| BranchId | Integer | 11 |
| IFSC | String | 30 |
| Address | String | 200 |
| City | String | 30 |
| State | String | 40 |
| Country | String | 60 |
| Zip | String | 20 |
| Telephone | String | 14 |
| Email | String | 30 |
| BankID | Integer | 11 |
| BranchName | String | 40 |

**3. Customer Entity**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CustomerId** | **Name** | **DateOfBirth** | **TaxId** | **GovernmentId** | **Email** | **Addresses** | **Telephones** | **BranchID** |
| Primary Key | CustomerName |  |  |  |  | DeliveryAddress | TelephoneNumber | Foreign Key |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

**Customer Entity fields and there types**

|  |  |  |  |
| --- | --- | --- | --- |
| **Filed** | **Type** | **Max Len** | **Pattern** |
| CustomerID | String | 128 |  |
| DateOfBirth | dateTime |  | \d{4}\-\d\d\-\d\dT\d\d:\d\d:\d\d\.\d\d\dZ |
| TaxId | String |  |  |
| GovernmentId | string |  |  |
| Email | Array of string |  |  |

**3-A. CustomerName Entity**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix** | **First** | **Middle** | **Last** | **Suffix** | **Company** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**CustomerName Entity fields and there types**

|  |  |
| --- | --- |
| **Filed** | **Type** |
| Prefix | String |
| First | String |
| Middle | String |
| Last | String |
| Suffix | String |
| Company | String |

**3-B. DeliveryAddress Entity**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Type** | **Line1** | **Line2** | **Line3** | **City** | **State** | **Zip** | **Country** |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**DeliveryAddress Entity fields and there types**

|  |  |  |  |
| --- | --- | --- | --- |
| **Filed** | **Type** | **Max Len** | **Suggested Values** |
| Type | String |  | BUSINESS HOME MAILING |
| Line1 | String | 64 |  |
| Line2 | String | 64 |  |
| Line3 | String | 64 |  |
| City | String | 64 |  |
| State | String | 2 |  |
| Zip | String | 9 |  |
| Country | string |  | there is no of suggested values |

**3-C. TelephoneNumber Entity**

|  |  |  |
| --- | --- | --- |
| **Type** | **Country** | **Number** |
| HOME, BUSINESS, CELL, FAX |  |  |
|  |  |  |
|  |  |  |

**TelephoneNumber Entity fields and there types**

|  |  |  |  |
| --- | --- | --- | --- |
| **Filed** | **Type** | **Max Len** | **Suggested Values** |
| Type | string |  | BUSINESS, CELL, FAX, HOME |
| Country | string | 3 |  |
| Number | string | 10 |  |

**Sample Request & Response**

**Request:**

http:localhost:8008/api/v1/bank/customer

http: POST

Body

{

“bankName”: “Axis Bank”, “branch”: “Nigdi”

}

**Response:**

CustomerList{

“CustomerID”: “111111101”,

“Name”: [{“Prefix “: “Mr.”, “First “: “Vijendra”, “Middle “: “Kumar”, “Last “: “Thakur”, “Suffix “: “jr.”, “Company “: “Cg”}],

“DateOfBirth”: 1990-01-10,

“TaxID: “144-27-7471”,

“GovernmentID”: “123457890645”,

“Email”: “[isla@abc.com](mailto:isla@abc.com)”,

“Address”: [{“Type”: “HOME”, “Line1 “: “Dhanori-1”, “Line12”: “Dhanori-2”, “Line1 “: “Dhanori- 3”, “City”: “Pune”, “Sate”: “MH”, “Zip”:”122121”, “Country”: “IND”}],

“Telephone”: [{“Type”: “CELL”, “Country”: “IND”, “Number”: “7654432187”}]

}

**Security:**

We will implement spring security to authenticate the end users

**Status Code:**

**200 OK :** Standard response for successful HTTP requests.

**201 Created:** The request has been fulfilled, resulting in the creation of a new resource.

**400 Bad Request:** The server cannot or will not process the request due to an apparent client error

**401 Unauthorized:**  When authentication is required and has failed or has not yet been provided.

[**403 Forbidden**](https://en.wikipedia.org/wiki/HTTP_403)**:** The request was valid, but the server is refusing action. The user might not have the necessary permissions for a resource

[**404 Not Found**](https://en.wikipedia.org/wiki/HTTP_404)**:** The requested resource could not be found but may be available in the future.