DataBase :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Loan\_Acct\_No** | **Customer\_Name** | **Loan\_Type** | **Loan\_Amount** | **Interest\_Rate** | **EMI\_Per\_Month** |
| LP123456 | david | CL | 200000 | 5.99 | 11980 |
| LP123457 | james | HL | 1050000 | 8.49 | 89145 |
| LP123458 | jessy | PL | 500000 | 14.99 | 74950 |
| LP123459 | siva | CL | 105000 | 10.25 | 10762.5 |
| LP123460 | raj | PL | 50000 | 15.99 | 7995 |
| LP123461 | kate | HL | 3000000 | 12.99 | 389700 |
| LP123462 | lara | PL | 800000 | 13.56 | 108480 |
| LP123463 | david | HL | 1000000 | 13.99 | 139900 |
| LP123464 | james | CL | 650000 | 8.57 | 55705 |
| LP123465 | siva | HL | 2500000 | 8.99 | 224750 |
| LP123458 | jessy | HL | 4000000 | 7.99 | 319600 |

|  |  |
| --- | --- |
| Note |  |
|  |  |
| HL | House Loan |
| PL | Personal Loan |
| CL | Car Loan |

EMI\_PER\_MONTH = (Loan\_Amount \* Interest\_Rate) / 100

**Create SOAP Web Service Requirement:**

Loan Account No i.e "Loan\_Acct\_No" in database should be the primary key.

**Operation 1: retrieveCustomerLoanAcountDetails:**

**Request :**

1. LoanAccountNo

**Response:**

Retrieve all the details

**Operation 2: retrieveAllHoldingLoansOfACustomer**

**Request:**

1. CustomerName

**Response:**

1. LoanAccountNo
2. CustomerName
3. LoanType
4. LoanAmount

**Example:**

If "Gowtham" is the customer name having two loans i.e. PL and HL, then these two loan details should be shown in response.

**Operation 3: changeInterestRate**

**Request**:

1. LoanAccountNo

2. NewInterestRate

**Response**:

1. LoanAccountNo

2. CustomerName

3. LoanAmount

4. InterestRate (Retrieve updated interestRate from database)

5. UpdatedEmiPerMonth (Once the interest rate is changed, then EMI per month also will change, so calculate new EMI as per new interest rate. Update the same DB, retrieve from database after update, and show new EMI per month in response.

**Operation 4: UpdateForToUpLoan**

**Request:**

1. ExtraPrincialAmount (Or) TopUpLoanAmount

2. LoanAccountNo

3. InterestRateForTopup

**Response:**

1. LoanAccountNo

2. CustomerName

3. NewLoanAmount(Once the top Up is applied, Total loan amount will be changed i.e. old+topup amount will be the new loan amount)

4.UpdatedEmiPerMonth (Here also once the interest rate is changed for topup, then EMI per month also will change, So calculate new EMI as per new interest rate for the topupLOan. Update the same DB, retrieve from database after update, and show new EMI per month in response)