**Pecunia Finance Limited – Case study**

Team F – Classes Document

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Class 1:Loans

**Fields:**

|  |  |  |
| --- | --- | --- |
| **#** | **Field** | **Description** |
| 1 | private string \_loantype | Type of loan home, personal etc |
| 2 | private double loan\_amt | Amount of loan |
| 3 | private double \_collateral | Collateral submitted on loan applied |
| 4. | Private string \_loan status | Current loan status (applied , approved) |
| 5. | Private int \_tenure | Tenure left of loan |

**Properties:**

|  |  |  |
| --- | --- | --- |
| **#** | **Property** | **Validations** |
| 1 | public string \_loantype | It can be home personal education or vehicle |
| 2 | public int loan\_amt | Should be greater than 100000 |
| 3 | public string collateral | Collateral should be greater than loan amount |
| 4. | Public loan status | It can be applied approved rejected pending |
| 5. | Public int tenure | Should be greater than 0 |

**Methods:**

|  |  |  |
| --- | --- | --- |
| **#** | **Method** | **Description** |
| 1 | Public List<Loan> NewLoan | Returns entire list of loan applied |
|  | Public List<Loan>Approved\_loan | Gives list of loan approved EMI Tenure , balance left |
| 2. | Public List<Loan>Rejected Loan | Gives list of rejected loan and EMI amount or other requirments |
| 3. | Public Void Add\_New\_Loan | Will take details to apply for new loan ..will be linked to customer class |
| 4. | Public Void Update | Will Update amount tenure and other details |
| 5. | Public bool Approval | Will decide whether Loan is approved or not |
| 6. | Public double EMI | Will Calculate EMI for Loan |
|  |  |  |

Class 2: Transaction

**Fields:**

|  |  |  |
| --- | --- | --- |
| **#** | **Field** | **Description** |
| 1 | private string \_creditAccountNo. | Credit account number. |
| 2 | private string \_debitAccount | Debit Account number. Should be in database |
| 3 | private double \_amount | Amount of money to be transferred. |

**Properties:**

|  |  |  |
| --- | --- | --- |
| **#** | **Property** | **Validations** |
| 1 | public string CreditAccountNo.() | Get credit account no. Should be in database |
| 2 | public string DebitAccountNo.() | Get debit account number. Should be in database |
| 3 | public string Amount() | Get Amount of transaction. Should be greater than 0. |

**Methods:**

|  |  |  |
| --- | --- | --- |
| **#** | **Method** | **Description** |
| 1 | Public Credit( string AccountNumber) | Update the give account balance by credit |
|  | Public debit( string AccountNumber) | Update the given account number by debit. |
| 2. | Public List<Transaction>GetTransactionBydate | Gives a list of transaction for a particular date |
| 3. | Public List<Transaction>GetTransactionByAccountNo | Gives a list of transaction for a particular account |
| 4. | Public List<Transaction>GetTransactionByAccountNo | Gives a list of transaction for a particular transaction type |