Automatic evaluation[+]

LoanManagement/src/com/dao/CustomerDAO.java

```
 1 package com.dao;
 2
 3 import java.util.*;
 4
 5 import com.exception.LoanException;
 6 import com.model.Customer;
 7
 8 public class CustomerDAO {
 9
10     List<Customer> customerList = new ArrayList<>();
11
12     public void addCustomer(Customer customerObj){
13         customerList.add(customerObj);
14     }
15
16     public List<Customer> viewAllCustomer(){
17         if(customerList.isEmpty()){
18             return null;
19         }
20         return customerList;
21     }
22
23     public boolean deleteCustomer(int customerId){
24         //boolean flag=false;
25         for(Customer c : customerList){
26             if(c.getCustomerId()==customerId){
27                 customerList.remove(c);
28                 return true;
29             }
30         }
31         return false;
32     }
33
34     public boolean validateCustomerID(int customerId){
35
36         try {
37             if(customerId>=1000 && customerId<=9999)
38             {
39                 return true;
40             }
41             else{
42                 throw new LoanException("Customer Id is invalid");
43             }
44         } catch (LoanException e) {
45             // TODO Auto-generated catch block
46             e.printStackTrace();
47         }
48         return false;
49     }
50
51 }
52
```

LoanManagement/src/com/dao/LoanDAO.java

```
 1 package com.dao;
 2
```

```
 3
 4 import java.util.ArrayList;
 5 import java.util.List;
 6
 7 import com.exception.LoanException;
 8 //import com.model.Customer;
 9 import com.model.Loan;
10
11 //import java.io.IOException;
12
13 public class LoanDAO {
14
15     List<Loan> loanList = new ArrayList<>();
16
17     public void issueLoan(Loan loanObj){
18         loanList.add(loanObj);
19     }
20
21     public List<Loan> viewLoanByType(int loanType) throws LoanException {
22
23         if(loanList.isEmpty()){
24             return null;
25         }
26         else
27         {
28             List<Loan> temp= new ArrayList<>();
29             for(Loan loan : loanList){
30                 if(loan.getLoanType().equals(loanType)){
31                     temp.add(loan);
32                 }
33             }
34
35             //try{
36                 if(temp==null)
37                 {
38                     // to check if temp is empty
39                     throw new LoanException("No loans available with type
"+loanType);
40                 }
41             //}
42             //catch(LoanException e){
43
44             //}
45             /*inally{
46                 return temp;
47             }*/
48             else{
49                 return temp;
50             }
51         }
52     }
53
54 }
55
```

LoanManagement/src/com/dao/PaymentDAO.java

```
 1 package com.dao;
 2
```

```
 3 import java.util.ArrayList;
 4 import java.util.List;
 5
 6 import com.model.Payment;
 7 //import com.dao.LoanDAO;
 8 //import com.dao.CustomerDAO;
 9
10 public class PaymentDAO {
11
12     private List<Payment> paymentList = new    ArrayList<>();
13
14     //private CustomerDAO custDAO;
15
16
17     public void setPaymentList(List<Payment> paymentList ) {
18           this.paymentList= paymentList;
19     }
20
21     public List<Payment> getPaymentList() {
22           return paymentList;
23     }
24
25        public void makePayment(Payment obj){
26           paymentList.add(obj);
27        }
28
29       /* public void updatePayment(int paymentId,double amount){
30
31        } */
32
33 }
34
```

LoanManagement/src/com/exception/LoanException.java

```
 1 package com.exception;
 2
 3 public class LoanException extends Exception {
 4     public LoanException(String msg){
 5           super(msg);
 6     }
 7 }
 8
```

LoanManagement/src/com/model/Customer.java

```
 1 package com.model;
 2
 3 public class Customer {
 4
 5     int customerId;
 6     String customerName;
 7     String address;
 8     String panNumber;
 9     String emailId;
10
11     public Customer(int customerId, String customerName, String address, String
panNumber) {
12           //String pan="";
13           this.customerId = customerId;
14           this.customerName = customerName;
```

```
15          this.address = address;
16          this.panNumber = panNumber;
17      }
18
19      public Customer() {
20          //default
21      }
22
23      public int getCustomerId() {
24          return customerId;
25      }
26
27      public void setCustomerId(int customerId) {
28          this.customerId = customerId;
29      }
30
31      public String getCustomerName() {
32          return customerName;
33      }
34
35      public void setCustomerName(String customerName) {
36          this.customerName = customerName;
37      }
38
39      public String getAddress() {
40          return address;
41      }
42
43      public void setAddress(String address) {
44          this.address = address;
45      }
46
47      public String getPanNumber() {
48          return panNumber;
49      }
50
51      public void setPanNumber(String panNumber) {
52          this.panNumber = panNumber;
53      }
54
55      public String getEmailId() {
56          return emailId;
57      }
58
59      public void setEmailId(String emailId) {
60          this.emailId = emailId;
61      }
62
63  }
64
```

LoanManagement/src/com/model/Loan.java

```
1  package com.model;
2
3  public class Loan {
4      int loanNumber;
5      String loanType="Vehicle";
6      Customer customer;
```

```
    double loanAmount;
    double balanceLoanAmount;
    static final double MAXLOANAMOUNT=1500000;

    public Loan(){
        //default
    }

    public Loan(int loanNumber, String loanType, Customer customer, double loanAmount) {
        this.loanNumber = loanNumber;
        this.loanType = loanType;
        this.customer = customer;
        this.loanAmount = loanAmount;
        balanceLoanAmount=loanAmount;
    }

    public int getLoanNumber() {
        return loanNumber;
    }

    public void setLoanNumber(int loanNumber) {
        this.loanNumber = loanNumber;
    }

    public String getLoanType() {
        return loanType;
    }

    public void setLoanType(String loanType) {
        this.loanType = loanType;
    }

    public Customer getCustomer() {
        return customer;
    }

    public void setCustomer(Customer customer) {
        this.customer = customer;
    }

    public double getLoanAmount() {
        return loanAmount;
    }

    public void setLoanAmount(double loanAmount) {
        this.loanAmount = loanAmount;
    }

    public double getBalanceLoanAmount() {
        return balanceLoanAmount;
    }

    public void setBalanceLoanAmount(double balanceLoanAmount) {
        this.balanceLoanAmount = balanceLoanAmount;
    }

```

```
63
64      public boolean checkBalanceAmount(double amountPaid){
65          //float gst=3;
66          return (balanceLoanAmount >= amountPaid);
67          //double amount = balanceLoanAmount+balanceLoanAmount*gst/100;
68          //if(balanceLoanAmount >= amountPaid)
69          //    return true;
70          //else
71          //    return false;
72      }
73
74
75
76
77 }
78
```

LoanManagement/src/com/model/Payment.java

```
 1 package com.model;
 2
 3 import java.time.LocalDate;
 4
 5 public class Payment {
 6
 7      int paymentId;
 8      LocalDate dateOfPayment;
 9      Loan loanObj;
10      double amount;
11      String paymentMode;
12      static final float GSTPERCENTAGE=2;
13
14      public Payment(int paymentId, LocalDate dateOfPayment, Loan loanObj, double
amount, String paymentMode) {
15
16          this.paymentId = paymentId;
17          this.dateOfPayment = dateOfPayment;
18          this.loanObj = loanObj;
19          this.amount = amount;
20          this.paymentMode = paymentMode;
21      }
22
23      public int getPaymentId() {
24          return paymentId;
25      }
26
27      public void setPaymentId(int paymentId) {
28          this.paymentId = paymentId;
29      }
30
31      public LocalDate getDateOfPayment() {
32          return dateOfPayment;
33      }
34
35      public void setDateOfPayment(LocalDate dateOfPayment) {
36          this.dateOfPayment = dateOfPayment;
37      }
38
39      public Loan getLoanObj() {
```

```
40          return loanObj;
41      }
42
43      public void setLoanObj(Loan loanObj) {
44          this.loanObj = loanObj;
45      }
46
47      public double getAmount() {
48          return amount;
49      }
50
51      public void setAmount(double amount) {
52          this.amount = amount;
53      }
54
55      public String getPaymentMode() {
56          return paymentMode;
57      }
58
59      public void setPaymentMode(String paymentMode) {
60          this.paymentMode = paymentMode;
61      }
62
63      public static float getGstpercentage() {
64          return GSTPERCENTAGE;
65      }
66
67
68
69  }
70
```

Grade

Reviewed on Tuesday, 4 May 2021, 2:29 AM by Automatic grade

Grade 100 / 100

Assessment report

[+]Grading and Feedback