

//Classname: validate.java

```
package Rental.com;
import java.util.ArrayList;
class User{
String name;
String password;
double balance;
}
public class Validate {
    ArrayList<User> m=new ArrayList<>();
    void adduser() {
        User us1=new User();
        us1.name="vaishnavi";
        us1.password="vaishnavi@123";
        us1.balance=10000;
        m.add(us1);
    }
    int user(String uname,String pass) {
        boolean isValid=false;
        for(User user:m) {
            if(user.name.equals(uname)&& user.password.equals(pass)) {
                isValid=true;
                break;
            }
        }
        if(isValid) {
            return 1;
        }
        return 0;
    }
}
```

//Classname : UserCamera.java

```
package Rental.com;
import java.util.HashMap;
import java.util.Map;
import java.util.Scanner;
class Camera{
String Brand;
String Model;
int Price;
String Status;
}

public class UserCamera extends Validate {
    Scanner sc=new Scanner(System.in);
    static int i=1;
    HashMap<Integer, Camera>cameralist=new HashMap<>();
    HashMap<Integer, String>mycameralist=new HashMap<>();
    Camera c;
    void AvailableCameraList() {
        Camera p1=new Camera();
        p1.Brand="canon";
    }
}
```

PROJECT NAME: CAMERARENTAL APPLICATION

Source Code

```
p1.Model="adreg";
p1.Price=8000;
p1.Status="Available";
Camera p2=new Camera();
p2.Brand="samsung";
p2.Model="huewrm";
p2.Price=5000;
p2.Status="Available";
Camera p3=new Camera();
p3.Brand="nikov";
p3.Model="Good";
p3.Price=4000;
p3.Status="Available";
Camera p4=new Camera();
p4.Brand="realme";
p4.Model="nice";
p4.Price=4000;
p4.Status="Available";
Camera p5=new Camera();
p5.Brand="sony";
p5.Model="great";
p5.Price=4000;
p5.Status="Available";
cameralist.put(1, p1);
i++;
cameralist.put(2, p2);
i++;
cameralist.put(3, p3);
i++;
cameralist.put(4, p5);
i++;
cameralist.put(5, p5);
i++;
}

void addCameras(String brandname,String modelname, int price,String
username) {
    c=new Camera();
    c.Brand=brandname;
    c.Model=modelname;
    c.Price=price;
    c.Status="Available";
    cameralist.put(i, c);
    mycameralist.put(i, username);
    i++;
    System.out.println("Your camera has been successfully added");
}

void displayCmeras(String uname) {
    int flag =0;
    for(Map.Entry<Integer,String>entry:mycameralist.entrySet()) {
        if(entry.getValue().equals(uname)) {
            int foundkey=entry.getKey();
            System.out.println("camera Id Brand Price Status\n"+mycameralist);
            if(cameralist.containsKey(foundkey))
            {

                Camera cameraObj=cameralist.get(foundkey);
                System.out.println(foundkey+"\t\t"+cameraObj.Brand+"\t\t"+cameraObj.M
odel+"\t\t"+
                cameraObj.Price+"\t\t"+cameraObj.Status);
                flag=1;
            }
        }
    }
}
```

PROJECT NAME: CAMERARENTAL APPLICATION

Source Code

```
    }
    }
    }
    if(flag==0) {
        System.out.println("This is empty");
    }
    }
    void displayCameraList()
    {
        System.out.println("Camera Id Brand Model price Status");
        for(Map.Entry<Integer, Camera> entry : cameralist.entrySet()) {
            System.out.println(entry.getKey()+"\t\t"+entry.getValue().Brand+"\t\t"
"+entry.getValue(
        ).Model+"\t\t"+entry.getValue().Price+"\t\t"+entry.getValue().Status)
;
        }
    }
    void removeCameraList(int key) {
        if(cameralist.containsKey(key)) {
            cameralist.remove(key);
            mycameralist.remove(key);
            System.out.println("Camera has been removed");
        }
        else
        {
            System.out.println("Invalid camera");
        }
    }
    void rentCamera(int key,String username) {
        int flag=0;
        if(cameralist.containsKey(key)) {
            if(cameralist.get(key).Status=="Available") {
                double Price=cameralist.get(key).Price;
                for(User user:m) {
                    if(user.name.equals(username)) {
                        if(user.balance>=Price) {
                            user.balance=user.balance-Price;
                            System.out.println("Your transaction for
camera"+cameralist.get(key).Brand+"is completed");
                            cameralist.get(key).Status="Rented";
                            flag=1;
                        }
                    }
                }
            }
            if(flag==0) {
                System.out.println("Transaction is incomplete due ti insufficient
balance");
            }
            else {
                System.out.println("The camera is already rented");
            }
        }
        else {
            System.out.println("Invalid camera Id");
        }
    }
    void wallet(String name) {
        for(User user:m) {
            if(user.name.equals(name)) {
```

PROJECT NAME: CAMERARENTAL APPLICATION

Source Code

```
        double bal=user.balance;
        System.out.println("Your current balance is:"+bal);
        System.out.println("If you would like to add money to wallet 1.Yes
2.No");

        int ch=sc.nextInt();
        if(ch==1) {
            System.out.println("Enter the amount you want to add:");
            double amount=sc.nextInt();
            user.balance=user.balance+amount;
            System.out.println("Balance is updated.\n current wallet amount
is:"+user.balance);
        }
    }
}
```

//Classname : CameraRental.java

```
package Rental.com;
import java.util.Scanner;
public class CameraRental {
    void mainMenu()
    {
        System.out.println("\n choose action");
        System.out.println("-----");
        System.out.println("1.MY CAMERA\n2.RENT A CAMERA\n3.VIEW ALL
CAMERAS\n4.MY WALLET\n5.Exit");
    }
    public static void main(String[] args) {
        CameraRental mc=new CameraRental();
        System.out.println("|-----|");
        System.out.println("| WELCOME TO CAMERA RENTAL APP |");
        System.out.println("|-----|");
        System.out.println(" LOGIN TO CONTINUE");
        System.out.println();
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter username :");
        String uname=sc.nextLine();
        System.out.println("Enter password :");
        String pass=sc.nextLine();
        UserCamera obj=new UserCamera();
        obj.adduser();
        int a=obj.user(uname, pass);
        if(a==0)
        {
            System.out.println("Invalid user!!!");
        }
        else
        {

            obj.AvailableCameraList();
            boolean shouldExit1 = false;
            while (!shouldExit1)
```

PROJECT NAME: CAMERARENTAL APPLICATION

Source Code

```
{
mc.mainMenu();
int cmain=sc.nextInt();
if(cmain==1)

{
boolean shouldExit2 = false;
while(!shouldExit2)
{
System.out.println("1.ADD\n2.REMOVE\n3.VIEW NY CAMERA\n4.GO TO
PREVIOUS MENU");

int c1=sc.nextInt();
switch(c1)
{
case 1: System.out.println("ENTER CAMERA BRAND :");
String brand=sc.next();
System.out.println("ENTER THE MODEL :");
String model=sc.next();
System.out.println("ENTER THE PER DAY PRICE (INR) :");
//String price=sc.next();

int Price=sc.nextInt();
obj.addCameras(brand, model, Price, uname);
break;
case 2: obj.displayCameraList();
System.out.println("ENTER THE CAMERA ID TO REMOVE :");

int id=sc.nextInt();
obj.removeCameraList(id);
break;
case 3: obj.displayCmeras(uname);
break;
case 4:shouldExit2 = true;
break;
default:System.out.println("INVAID CHOICE!!");
}
}
}
else if(cmain==2)
{
obj.displayCameraList();
System.out.println("ENTER THE CAMERA ID YOU WANT TO RENT :");
int id=sc.nextInt();
obj.rentCamera(id,uname);
}
else if(cmain==3)
{
obj.displayCameraList();
}
else if(cmain==4)
{
obj.wallet(uname);
}

else if(cmain==5)
{
shouldExit1 = true;
}
else
```

PROJECT NAME: CAMERARENTAL APPLICATION

Source Code

```
        {  
            System.out.println("INVALID CHOICE");  
        }  
    }  
}  
}
```