Camera Rental Application

Sourcecode:

**package** camera\_rental;

**import** java.util.ArrayList;

**import** java.util.Scanner;

**class** Data {

**private** **int** camera\_id;

**private** String brand;

**private** String model;

**private** **double** price;

**private** **boolean** status;

Data(**int** camera\_id, String brand, String model, **double** price, **boolean** Available) {

**this**.camera\_id = camera\_id;

**this**.brand = brand;

**this**.model = model;

**this**.price = price;

**this**.status = Available;

}

**public** **int** getId() {

**return** camera\_id;

}

**public** String getBrand() {

**return** brand;

}

**public** String getModel() {

**return** model;

}

**public** **double** getPrice() {

**return** price;

}

**public** **boolean** isAvailable() {

**return** status;

}

**public** **void** setAvailable(**boolean** Available) {

**this**.status = Available;

}

}

**public** **class** camera\_rental {

**public** **static** **void** main(String[] args) {

System.***out***.println("+----------------------------+");

System.***out***.println("|WELCOME TO CAMERA RENTAL APP|");

System.***out***.println("+----------------------------+");

System.***out***.println("PLEASE LOGIN TO CONTINUE-");

**double** INR = 1000;

String username, password;

Scanner s = **new** Scanner(System.***in***);

System.***out***.print("USERNAME-");

username = s.nextLine();

System.***out***.print("PASSWORD-");

password = s.nextLine();

**if** (username.equals("admin") && password.equals("admin@123")) {

System.***out***.println("LOGIN SUCCESSFULL.");

ArrayList<Data> list = **new** ArrayList<>();

list.add(**new** Data(1, "Canon", "DSLR", 600, **true**));

list.add(**new** Data(2, "Sony", "SLR", 1000, **true**));

list.add(**new** Data(3, "REDMI", "SLRC", 400, **true**));

list.add(**new** Data(4, "Lenova", "200D", 300, **true**));

list.add(**new** Data(5, "Nikon", "300D", 800, **true**));

list.add(**new** Data(6, "Kodak", "5D", 1500, **true**));

list.add(**new** Data(7, "Samsung", "VCD", 700, **true**));

list.add(**new** Data(8, "Gopro", "G50", 250, **true**));

**int** x = 0;

**do** {

**int** option;

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("1.MY CAMERA");

System.***out***.println("2.RENT A CAMERA");

System.***out***.println("3.VIEW ALL CAMERA");

System.***out***.println("4.MY WALLET");

System.***out***.println("5.Exit");

option = sc.nextInt();

**switch** (option) {

**case** 1:

**int** k = 0;

**do** {

**int** choose;

System.***out***.println("1.ADD");

System.***out***.println("2.REMOVE");

System.***out***.println("3.VIEW MY CAMERA");

System.***out***.println("4.GO TO PREVIOUS MENU");

choose = sc.nextInt();

**switch** (choose) {

**case** 1:

System.***out***.println("ENTER CAMERA ID: ");

**int** camera\_id = sc.nextInt();

System.***out***.println("ENTER CAMERA BRAND: ");

String brand = sc.next();

System.***out***.println("ENTER CAMERA MODEL: ");

String model = sc.next();

System.***out***.println("ENTER PRICE PER DAY: ");

**double** price = sc.nextFloat();

**boolean** Available = **true**;

list.add(**new** Data(camera\_id, brand, model, price, Available));

System.***out***.println("SUCESSFULLY ADDED");

System.***out***.println("WANT TO VIEW CAMERA LIST ENTER '1' else enter '0': ");

**int** m = sc.nextInt();

**if** (m == 1) {

System.***out***.println("============================================================================================================");

System.***out***.println("cameraID\tBrand\t\tModel\t\tPrice\t\tStatus");

System.***out***.println("============================================================================================================");

**for** (**int** i = 0; i < list.size(); i++) {

Data data = list.get(i);

String status = data.isAvailable() ? "AVAILABLE" : "RENTED";

System.***out***.println(data.getId() + "\t\t" + data.getBrand() + "\t\t" + data.getModel() + "\t\t"+ data.getPrice() + "\t\t" + status);

}

System.***out***.println("============================================================================================================");

}

**break**;

**case** 2:

System.***out***.println("ENTER CAMERA Id WANT TO REMOVE : ");

**int** cameraId = sc.nextInt();

**for** (**int** i = 0; i < list.size(); i++) {

Data camera = list.get(i);

**if** (camera.getId() == cameraId) {

list.remove(i);

System.***out***.println("REMOVED SUCESSFULLY");

**break**;

}

}

**break**;

**case** 3:

System.***out***.println("============================================================================================================");

System.***out***.println("cameraID\tBrand\t\tModel\t\tPrice\t\tStatus");

System.***out***.println("============================================================================================================");

**for** (**int** i = 0; i < list.size(); i++) {

Data data = list.get(i);

String status = data.isAvailable() ? "AVAILABLE" : "RENTED";

System.***out***.println(data.getId() + "\t\t" + data.getBrand() + "\t\t" + data.getModel() + "\t\t"+ data.getPrice() + "\t\t" + status);

}

System.***out***.println("============================================================================================================");

**case** 4:

x = 1;

**break**;

}

System.***out***.println("IF U WANT ADD OR REMOVE CAMERA PLEASE ENTER '1' ELSE '0':");

k = sc.nextInt();

} **while** (k == 1);

**break**;

**case** 2:

System.***out***.println("============================================================================================================");

System.***out***.println("cameraID\tBrand\t\tModel\t\tPrice\t\tStatus");

System.***out***.println("============================================================================================================");

**for** (Data data : list) {

**if** (data.isAvailable()) {

String status = data.isAvailable() ? "AVAILABLE" :"RENTED";

System.***out***.println(data.getId() + "\t\t" + data.getBrand() + "\t\t" + data.getModel() + "\t\t"+ data.getPrice() + "\t\t" + status);

}

}

System.***out***.println("============================================================================================================");

**int** index = -1;

System.***out***.println("ENTER CAMERA ID YOU WANT TO RENT: ");

**int** cameraId = sc.nextInt();

**for** (**int** i = 0; i < list.size(); i++) {

Data camera = list.get(i);

**if** (camera.getId() == cameraId && camera.isAvailable()) {

index = i;

**break**;

}

}

**if** (index != -1) {

Data a = list.get(index);

**if** (a.getPrice() <= INR) {

System.***out***.println("RENTED SUCESSFULLY");

a.setAvailable(**false**);

INR = INR - a.getPrice();

System.***out***.println("CURRENT WALLET BALANCE - " + INR);

} **else** {

System.***out***.println("YOU DONT HAVE SUFFIENT BALANCE 'PLEASE RECHARGE' ");

}

} **else** {

System.***out***.println("CAMERA WITH " + cameraId + " IS NOT FOUND IN THE LIST.");

}

**break**;

**case** 3:

System.***out***.println("============================================================================================================");

System.***out***.println("cameraID\tBrand\t\tModel\t\tPrice\t\tStatus");

System.***out***.println("============================================================================================================");

**for** (**int** i = 0; i < list.size(); i++) {

Data data = list.get(i);

String status = data.isAvailable() ? "AVAILABLE" : "RENTED";

System.***out***.println(data.getId() + "\t\t" + data.getBrand() + "\t\t" + data.getModel() + "\t\t"+ data.getPrice() + "\t\t" + status);

}

System.***out***.println("============================================================================================================");

**break**;

**case** 4:

System.***out***.println("YOUR CURRENT WALLET BALANCE IS :" + INR);

System.***out***.println("DO YOU WANT TO DEPOSIT AMOUNT TO YOUR WALLET.?(1.Yes 2.No)- ");

**int** m = sc.nextInt();

**if** (m == 1) {

System.***out***.println("ENTER DEPOSIT AMOUNT: ");

**double** addAmount = sc.nextDouble();

INR = INR + addAmount;

System.***out***.print("YOUR WALLET BALANCE IS UPDATED SUCCESSFULLY...");

}

System.***out***.println("CURRENT WALLET BALANCE - " + INR);

**break**;

**case** 5:

x=2;

System.***out***.println("ENTER OPTION 2 TO EXIT");

}

System.***out***.println("IF U WANT CONTINUE (1.YES 2.NO)- ");

x = sc.nextInt();

}

**while** (x == 1);

} **else** {

System.***out***.println("AUTHENTICATION FAILED");

}

System.***out***.println("THANK YOU FOR VISITING CAMERA RENTAL");

}

}