**CAMERA RENTAL APPLICATION SOUCRCE CODE**

SOURCE CODE:

import package smpilelearn;

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 CameraRental {

public static void main(String[] args) {

// TODO Auto-generated method stub

double INR = 1000;

String username, password;

Scanner s = new Scanner(System.in);

System.out.print("Enter username:");// username:user

username = s.nextLine();

System.out.print("Enter password:");// password:user

password = s.nextLine();

if (username.equals("vinay") && password.equals("vinay2001")) {

System.out.println("Login Successful");

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

list.add(new Data(1, "Ricoh", "Panasonic", 1920, true));

list.add(new Data(2, "Nikon", "Olympus", 800, false));

list.add(new Data(3, "Penter", "6350", 430, true));

list.add(new Data(4, "Sony", "Canon", 1100, true));

list.add(new Data(5, "Leica", "Sigma", 470, true));

list.add(new Data(6, "Samsung", "2130", 560, false));

list.add(new Data(7, "Kodak", "Minolta", 420, true));

list.add(new Data(8, "Fujifilm", "DSLR", 220, true));

// int l=list.size();

int x = 0;

do {

int option;

Scanner sc = new Scanner(System.in);

// public void main\_option()

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("Select your option : ");

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");

System.out.println("Enter your choise : ");

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 Camera Price per day: ");

double price = sc.nextFloat();

boolean Available = true;

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

System.out.println("Successfully Added");

System.out.println("You want view camera List please enter '1' else enter '0': ");

int m = sc.nextInt();

if (m == 1) {

System.out.println("cameraID\t Brand\t Model\t Price\t Status");

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

Data data = list.get(i);

String status = data.isAvailable() ? "Available" : "Rended";

System.out.println(data.getId() + "\t\t" + data.getBrand() + "\t" + data.getModel()

+ "\t" + data.getPrice() + "\t" + status);

}

}

break;

case 2:

System.out.println("Which one you want to remove 'Entre camera Id': ");

int cameraId = sc.nextInt();

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

Data camera = list.get(i);

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

list.remove(i);

break;

}

}

break;

case 3:

System.out.println("cameraID\t Brand\t Model\t Price\t Status");

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

Data data = list.get(i);

String status = data.isAvailable() ? "Available" : "Rended";

System.out.println(data.getId() + "\t\t" + data.getBrand() + "\t" + data.getModel()

+ "\t" + data.getPrice() + "\t" + status);

}

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("cameraID\t Brand\t Model\t Price\t Status");

for (Data data : list) {

if (data.isAvailable()) {

String status = data.isAvailable() ? "Available" : "Rended";

System.out.println(data.getId() + "\t\t" + data.getBrand() + "\t" + data.getModel() + "\t"

+ data.getPrice() + "\t" + status);

}

}

int index = -1;

System.out.println("Which one you want to rent 'Entre camera Id': ");

int cameraId = sc.nextInt();

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

Data camera = list.get(i);

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

index = i;

break; // Found the camera, exit the loop

}

}

if (index != -1) {

Data a = list.get(index);

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

System.out.println("Rended Successfully");

a.setAvailable(false);

INR = INR - a.getPrice();

System.out.println("Current wallet balance - " + INR);

} else {

System.out.println("You don't have Sufficient Balance in your wallet");

}

} else {

System.out.println("Camera with ID " + cameraId + " is not found in the list.");

}

break;

case 3:

System.out.println("cameraID\t Brand\t Model\t Price\t Status");

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

Data data = list.get(i);

String status = data.isAvailable() ? "Available" : "Rended";

System.out.println(data.getId() + "\t\t" + data.getBrand() + "\t" + data.getModel() + "\t"

+ data.getPrice() + "\t" + status);

}

break;

case 4:

System.out.println("Your current wallet balance is :" + INR);

System.out.println("Do you want to deposit more 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 updated successfully...");

}

System.out.println("Current wallet balance - " + INR);

break;

}

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");

} }

OUTPUT

Successfully login

A screenshot of a computer

Description automatically generated

Authentication Error:

A screen shot of a computer

Description automatically generated with medium confidence

**CAMERA RENTAL APPLICATION**

**Project objective:**

As a developer, write a program for the camera rental application.

**Background of the problem statement:**

You have an requirement for camera rental application. As a programmer, write a program to for the rental application of the camera.

**You must use the following:**

* Eclipse : An IDE to code the application
* Java: A programming language
* Core Java concepts

ADVANTAGES:

* Authentication is required while entering into the appliication
* We are providing cancelation after booking
* We are also providing wallet u can add ur money to that
* At thee reasonable cost
* Multiple camera options

**Code:-**

package smpilelearn;

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 CameraRentalapp {

public static void main(String[] args) {

// TODO Auto-generated method stub

double INR = 1000;

String username, password;

Scanner s = new Scanner(System.in);

System.out.print("Enter username:");// username:user

username = s.nextLine();

System.out.print("Enter password:");// password:user

password = s.nextLine();

if (username.equals("vinay") && password.equals("vinay2001")) {

System.out.println("Login Successful");

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

list.add(new Data(1, "Ricoh", "Panasonic", 1920, true));

list.add(new Data(2, "Nikon", "Olympus", 800, false));

list.add(new Data(3, "Penter", "6350", 430, true));

list.add(new Data(4, "Sony", "Canon", 1100, true));

list.add(new Data(5, "Leica", "Sigma", 470, true));

list.add(new Data(6, "Samsung", "2130", 560, false));

list.add(new Data(7, "Kodak", "Minolta", 420, true));

list.add(new Data(8, "Fujifilm", "DSLR", 220, true));

// int l=list.size();

int x = 0;

do {

int option;

Scanner sc = new Scanner(System.in);

// public void main\_option()

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("Select your option : ");

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");

System.out.println("Enter your choise : ");

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 Camera Price per day: ");

double price = sc.nextFloat();

boolean Available = true;

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

System.out.println("Successfully Added");

System.out.println("You want view camera List please enter '1' else enter '0': ");

int m = sc.nextInt();

if (m == 1) {

System.out.println("cameraID\t Brand\t Model\t Price\t Status");

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

Data data = list.get(i);

String status = data.isAvailable() ? "Available" : "Rended";

System.out.println(data.getId() + "\t\t" + data.getBrand() + "\t" + data.getModel()

+ "\t" + data.getPrice() + "\t" + status);

}

}

break;

case 2:

System.out.println("Which one you want to remove 'Entre camera Id': ");

int cameraId = sc.nextInt();

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

Data camera = list.get(i);

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

list.remove(i);

break;

}

}

break;

case 3:

System.out.println("cameraID\t Brand\t Model\t Price\t Status");

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

Data data = list.get(i);

String status = data.isAvailable() ? "Available" : "Rended";

System.out.println(data.getId() + "\t\t" + data.getBrand() + "\t" + data.getModel()

+ "\t" + data.getPrice() + "\t" + status);

}

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("cameraID\t Brand\t Model\t Price\t Status");

for (Data data : list) {

if (data.isAvailable()) {

String status = data.isAvailable() ? "Available" : "Rended";

System.out.println(data.getId() + "\t\t" + data.getBrand() + "\t" + data.getModel() + "\t"

+ data.getPrice() + "\t" + status);

}

}

int index = -1;

System.out.println("Which one you want to rent 'Entre camera Id': ");

int cameraId = sc.nextInt();

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

Data camera = list.get(i);

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

index = i;

break; // Found the camera, exit the loop

}

}

if (index != -1) {

Data a = list.get(index);

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

System.out.println("Rended Successfully");

a.setAvailable(false);

INR = INR - a.getPrice();

System.out.println("Current wallet balance - " + INR);

} else {

System.out.println("You don't have Sufficient Balance in your wallet");

}

} else {

System.out.println("Camera with ID " + cameraId + " is not found in the list.");

}

break;

case 3:

System.out.println("cameraID\t Brand\t Model\t Price\t Status");

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

Data data = list.get(i);

String status = data.isAvailable() ? "Available" : "Rended";

System.out.println(data.getId() + "\t\t" + data.getBrand() + "\t" + data.getModel() + "\t"

+ data.getPrice() + "\t" + status);

}

break;

case 4:

System.out.println("Your current wallet balance is :" + INR);

System.out.println("Do you want to deposit more 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 updated successfully...");

}

System.out.println("Current wallet balance - " + INR);

break;

}

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");

}}

**Output:-**

**A screenshot of a computer

Description automatically generated**

**AUTHENTICATION ERROR:**

**A screen shot of a computer

Description automatically generated with medium confidence**