```
code: Camera Rental System
package Project;
class Camera {
private int id;
private String brand;
private String model;
private double rentalAmount;
private boolean rented;
public Camera(int id, String brand, String model, double rentalAmount) {
this.id = id;
this.brand = brand;
this.model = model;
this.rentalAmount = rentalAmount;
this.rented = false;
}
public int getId() {
return id;
}
public String getBrand() {
return brand;
}
public String getModel() {
return model;
}
public double getRentalAmount() {
return rentalAmount;
public boolean isRented() {
return rented;
}
public void setRented(boolean rented) {
this.rented = rented;
}
}
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package Project;
public class User {
private String username;
private String password;
public User(String username, String password) {
this.username = username;
this.password = password;
}
public String getUsername() {
return this.username;
public void setUsername(String username) {
this.username = username;
public String getPassword() {
return this.password;
}
public void setPassword(String password) {
this.password = password;
}
}
package Project;
public class Wallet {
private double balance;
public Wallet() {
balance =60000;
}
public double getBalance()
{
return balance;
public void deposit(double amount) {
balance += amount;
public void setBalance(double amount)
balance=amount;
}
}
```

package Project;

```
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import java.util.Scanner;
public class CameraRentalApp
{
private List<Camera> cameraList;
private Scanner scanner;
private int cameraIdCounter;
private List<Camera> MycameraList;
private Wallet wallet;
public CameraRentalApp() {
cameraList = new ArrayList<>();
MycameraList=new ArrayList<>();
scanner = new Scanner(System.in);
cameraIdCounter = 7;
wallet=new Wallet();
public void run()
{
List<User> users = new ArrayList<>();
users.add(new User("Prasad", "Prasad78"));
users.add(new User("Kiran", "Kiran123"));
users.add(new User("Kaveri", "Wonderful"));
users.add(new User("seetha", "Sc567"));
users.add(new User("Ganesh", "12345678"));
users.add(new User("mahesh", "king1245"));
users.add(new User("dev", "dialogue"));
users.add(new User("dev", "dialogue"));
users.add(new User("Lahari", "World12"));
users.add(new User("Reddy", "Reddy567"));
users.add(new User("bhargav", "Man1234"));
cameraList.add(new Camera(1, "Sony", "4k", 15000));
cameraList.add(new Camera(2, "Kodak", "panaroma", 5000));
cameraList.add(new Camera(3, "Panasonic", "UHD", 6000));
cameraList.add(new Camera(4, "Samsung", "HD", 3000));
cameraList.add(new Camera(5,"Nikon","Z5",5000));
cameraList.add(new Camera(6,"Canon","Portrait",10000));
cameraList.add(new Camera(7, "Sigma", "Uhd56", 7000));
Scanner scanner = new Scanner(System.in);
System.out.println("+____+__+
System.out.println("|WELCOME TO CAMERA RENTAL APP|");
System.out.println("+___ + __ + __ + __ + __ System.out.println("Please login to continue");
System.out.print("Enter your username: ");
String username = scanner.nextLine();
System.out.print("Enter your password: ");
String password = scanner.nextLine();
User currentUser = null;
for (User user : users)
if (user.getUsername().equals(username) &&
user.getPassword().equals(password))
{
currentUser = user;
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break;
}
}
if (currentUser == null)
System.out.println("Invalid username or password.");
System.out.println("Please make sure that you have entered the correct
Credentials, Try Again!");
return;
}
displayMenu();
public void displayMenu()
boolean loggedIn=true;
if(loggedIn)
while (true)
System.out.println("=== MAIN MENU ===");
System.out.println("\n1. MY CAMERA");
System.out.println("2. RENT A CAMERA");
System.out.println("3. VIEW ALL CAMERAS");
System.out.println("4. MY WALLET");
System.out.println("5.EXIT");
System.out.print("Enter your choice: ");
int choice = Integer.parseInt(scanner.nextLine());
switch(choice)
case 1:goMyCamera();
break;
case 2:goRentCamera();
break;
case 3:goViewAllCameras();
break;
case 4:goMyWallet();
case 5:System.exit(0);
break;
default:
System.out.println("Wrong choice. Please try again.");
break;
}
}
}
}
//MY WALLET
private void goMyWallet() {
Scanner <u>scanner</u> = new Scanner(System.in);
System.out.println("YOUR WALLET BALANCE IS INR." + wallet.getBalance());
System.out.print("DO YOU WANT TO DEPOSIT AMOUNT TO YOUR WALLET ?(yes/no):
");
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String depositChoice = scanner.nextLine();
if (depositChoice.equalsIgnoreCase("yes"))
System.out.print("ENTER THE AMOUNT TO DEPOSIT(INR)- ");
double depositAmount = scanner.nextDouble();
if (depositAmount > 0)
wallet.deposit(depositAmount);
System.out.println("Deposit successful.");
}
else
System.out.println("Invalid amount. Deposit failed.");
System.out.println("YOUR WALLET BALANCE UPDATED SUCCESSFULLY.CURRENT WALLET
BALANCE-INR " + wallet.getBalance());
}
}
//MY CAMERA
private void goMyCamera() {
// TODO Auto-generated method stub
Scanner scanner=new Scanner(System.in);
while(true)
{
System.out.println("=== SUB MENU ===");
System.out.println("\n1. ADD");
System.out.println("2. REMOVE");
System.out.println("3. VIEW MY CAMERAS");
System.out.println("4. GO TO PREVIOUS MENU");
System.out.print("Enter your choice: ");
int choice = Integer.parseInt(scanner.nextLine());
switch(choice)
case 1:goAddCamera();
break;
case 2:goRemoveCamera();
break;
case 3:goViewMyCameras();
break;
case 4:break;
default:
System.out.println("Wrong choice. Please try again.");
break;
}
if(choice==4)
return;
}
}
}
//VIEW MY CAMERAS
private void goViewMyCameras() {
```

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// TODO Auto-generated method stub
if (MycameraList.isEmpty())
System.out.println("YOU HAVE NO CAMERAS.");
else {
System.out.println("Cameras List:");
System.out.printf("%-5s %-10s %-10s %-15s %-10s%n", "ID", "Brand", "Model",
"Rental Amount", "Status");
for (Camera camera : MycameraList)
String status = camera.isRented() ? "Rented" : "Available";
System.out.printf("%-5d %-10s %-10s $%-15.2f %-10s%n", camera.getId(),
camera.getBrand(), camera.getModel(),
camera.getRentalAmount(), status);
}
}
}
//REMOVE
private void goRemoveCamera() {
Scanner scanner=new Scanner(System.in);
// TODO Auto-generated method stub
System.out.print("ENTER THE CAMERA ID TO REMOVE");
int id=scanner.nextInt();
Iterator<Camera> iterator = cameraList.iterator();
while (iterator.hasNext()) {
Camera camera = iterator.next();
if (camera.getId() == id) {
cameraList.remove(camera);
cameraIdCounter--;
System.out.println("CAMERA SUCCESSFULLY REMOVED FROM THE LIST");
return;
System.out.println("CAMERA NOT FOUND IN THE LIST");
//ADD
private void goAddCamera() {
// TODO Auto-generated method stub
Scanner <u>scanner=new Scanner(System.in);</u>
System.out.print("ENTER THE CAMERA BRAND: ");
String brand = scanner.nextLine();
System.out.print("ENTER THE MODEL: ");
String model = scanner.nextLine();
System.out.print("ENTER THE PER DAY PRICE (INR): ");
int rentalAmount = Integer.parseInt(scanner.nextLine());
Camera camera = new Camera(cameraIdCounter++, brand, model, rentalAmount);
cameraList.add(camera);
System.out.println("YOUR CAMERA HAS BEEN SUCCESSFULLY ADDED TO THE LIST.");
//VIEW ALL CAMERAS
private void goViewAllCameras() {
// TODO Auto-generated method stub
if (cameraList.isEmpty()) {
System.out.println("YOU HAVE NO CAMERAS.");
else {
```

```
System.out.println("Cameras List:");
System.out.printf("%-5s %-10s %-10s %-15s %-10s%n", "ID", "Brand", "Model",
"Rental Amount", "Status");
for (Camera camera : cameraList)
String status = camera.isRented() ? "Rented" : "Available";
System.out.printf("%-5d %-10s %-10s $%-15.2f %-10s%n", camera.getId(),
camera.getBrand(), camera.getModel(),
camera.getRentalAmount(), status);
}
}
}
//RENT A CAMERA
private void goRentCamera()
// TODO Auto-generated method stub
System.out.println("FOLLOWING IS THE LIST OF AVAILABLE CAMERA(S)");
System.out.printf("%-5s %-10s %-10s %-15s %-10s%n", "ID", "Brand", "Model",
"Rental Amount", "Status");
for (Camera camera: cameraList)
if (!camera.isRented()) {
String status = "Available";
System.out.printf("%-5d %-10s %-10s $%-15.2f %-10s%n", camera.getId(),
camera.getBrand(), camera.getModel(),
camera.getRentalAmount(), status);
}
System.out.println("ENTER THE CAMERA ID YOU WANT TO RENT-");
Scanner scanner=new Scanner(System.in);
int id=scanner.nextInt();
for (Camera camera: cameraList)
if(camera.getId()==id )
if(camera.getRentalAmount()<=wallet.getBalance())</pre>
camera.setRented(true);
MycameraList.add(camera);
wallet.setBalance(wallet.getBalance()-camera.getRentalAmount());
System.out.println("YOUR TRANSACTION FOR CAMERA-"+camera.getBrand()+"
"+camera.getModel()+" with rent INR."+camera.getRentalAmount()+" HAS
SUCCESSFULLY COMPLETED");
}
else
System.out.println("ERROR:TRANSACTION FAILED DUE TO INSUFFICIENT WALLET
BALANCE. PLEASE DEPOSIT THE AMOUNT TO YOUR WALLET");
}
}
//MAIN METHOD
public static void main(String[] args) {
CameraRentalApp app = new CameraRentalApp();
app.run();
}
```

}		