**package** com.camerarental.main;

**import** java.util.ArrayList;

**import** java.util.List;

**import** java.util.Scanner;

**import** com.camerarental.bean.wallet.Wallet;

**class** Camera {

**private** String brand;

**private** String model;

**private** **double** perDayPrice;

**private** **boolean** isRented;

**public** Camera(String brand, String model, **double** perDayPrice) {

**this**.brand = brand;

**this**.model = model;

**this**.perDayPrice = perDayPrice;

**this**.isRented = **false**;

}

**public** String getBrand() {

**return** brand;

}

**public** String getModel() {

**return** model;

}

**public** **double** getPerDayPrice() {

**return** perDayPrice;

}

**public** **boolean** isRented() {

**return** isRented;

}

**public** **void** setRented(**boolean** rented) {

isRented = rented;

}

@Override

**public** String toString() {

**return** brand + " " + model + " - " + perDayPrice;

}

}

**public** **class** CameraRentalApp {

**public** **static** List<Camera> *cameraList* = **new** ArrayList<>();

**private** **static** Wallet *wallet* = **new** Wallet();

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

**boolean** exit = **false**;

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

*HomeScreen*();

*manageMainMenu*();

scanner.close();

}

**private** **static** **void** HomeScreen() {

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

System.***out***.println("Welcome to camera rental app");

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

System.***out***.println("please login to continue");

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

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

sc.next();

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

sc.next();

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

System.***out***.println("Login Succesful");

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

}

**private** **static** **int** Choice(Scanner scanner) {

System.***out***.print("Enter your choice: ");

**return** scanner.nextInt();

}

**private** **static** **void** manageMainMenu( ) {

**boolean** exit = **false**;

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

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

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

**int** choice = *Choice*(scanner);

**switch** (choice) {

**case** 1:

*AddCamera*(scanner,**false**);

*manageMainMenu*();

**break**;

**case** 2:

*rentCamera*(scanner);

*manageMainMenu*();

**break**;

**case** 3:

*viewAllCameras*();

*manageMainMenu*();

**break**;

**case** 4:

*manageWallet*(scanner);

*manageMainMenu*();

**break**;

**case** 5:

/\* exit = true;

System.out.println("Exiting the application...");\*/

*exitApplication*();

**break**;

**default**:

System.***out***.println("Invalid choice. Please try again.");

}

}

**private** **static** **void** AddCamera(Scanner scanner, **boolean** displayMainMenu) {

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");

**int** choice = *Choice*(scanner);

**switch** (choice) {

**case** 1:

*addCamera*(scanner);

*AddCamera*(scanner, **false**);

**break**;

**case** 2:

*removeCamera*(scanner);

*AddCamera*(scanner, **false**);

**break**;

**case** 3:

*viewMyCameras*();

*AddCamera*(scanner, **false**);

**break**;

**case** 4:

*manageMainMenu*();

**break**;

**default**:

System.***out***.println("Invalid choice. Please try again.Please re-enter the choice below");

*manageMainMenu*();

}

}

**private** **static** **void** addCamera(Scanner scanner) {

System.***out***.print("Enter the camera brand: ");

String brand = scanner.next();

System.***out***.print("Enter the camera model: ");

String model = scanner.next();

System.***out***.print("Enter the per day price (INR): ");

**double** perDayPrice = scanner.nextDouble();

Camera camera = **new** Camera(brand, model, perDayPrice);

*cameraList*.add(camera);

System.***out***.println("Your camera has been successfully added to the list.");

}

**private** **static** **void** removeCamera(Scanner scanner) {

*viewMyCameras*();

System.***out***.print("Enter the camera ID to remove: ");

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

**if** (cameraId >= 0 && cameraId < *cameraList*.size()) {

*cameraList*.remove(cameraId);

System.***out***.println("Camera successfully removed from the list.");

} **else** {

System.***out***.println("Invalid camera ID.");

}

}

**private** **static** **void** viewMyCameras() {

**if** (*cameraList*.isEmpty()) {

System.***out***.println("No cameras present at this moment.");

} **else** {

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

System.***out***.printf("%-10s %-10s %-10s %-10s %-10s\n",

"CAMERA ID", "BRAND", "MODEL", "PRICE(Per day)", "STATUS");

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

**int** id = 0;

**for** (Camera camera : *cameraList*) {

System.***out***.printf("%-10s %-10s %-10s %-10.2f %-10s\n",

id++, camera.getBrand(), camera.getModel(),

camera.getPerDayPrice(), camera.isRented() ? "Rented" : "Available");

}

}

}

**private** **static** **void** rentCamera(Scanner scanner) {

*viewAllCameras*();

**if** (*cameraList*.isEmpty()) {

System.***out***.println("No cameras available for rent at this moment.");

**return**;

}

System.***out***.print("Enter the camera ID you want to rent: ");

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

**if** (cameraId >= 0 && cameraId < *cameraList*.size()) {

Camera camera = *cameraList*.get(cameraId);

**if** (camera.isRented()) {

System.***out***.println("Camera is already rented.");

} **else** {

**if** (*wallet*.getBalance() >= camera.getPerDayPrice()) {

*wallet*.withdraw(camera.getPerDayPrice());

camera.setRented(**true**);

String output = "YOUR TRANSACTION FOR CAMERA " + camera.getBrand() + " " + camera.getModel() +" WITH RENT INR." + camera.getPerDayPrice() + " HAS SUCCESSFULLY COMPLETED";

System.***out***.println(output);

} **else** {

System.***out***.println("Insufficient wallet balance. Please deposit the amount to your wallet.");

}

}}

**else** {

System.***out***.println("Invalid camera ID.");

}

}

**private** **static** **void** viewAllCameras() {

System.***out***.println("\nFOLLOWING IS THE LIST OF AVAILABLE CAMERA(S)\n");

**if** (*cameraList*.isEmpty()) {

System.***out***.println("No cameras available at this moment.");

} **else** {

System.***out***.printf("%-10s %-10s %-10s %-10s %-10s\n",

"CAMERA ID", "BRAND", "MODEL", "PRICE", "STATUS");

**int** id = 1;

**for** (Camera camera : *cameraList*) {

System.***out***.printf("%-10s %-10s %-10s %-10.2f %-10s\n",

id++, camera.getBrand(), camera.getModel(),

camera.getPerDayPrice(), camera.isRented() ? "Rented" : "Available");

}

}

}

**private** **static** **void** manageWallet(Scanner scanner) {

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

System.***out***.println("\nMY WALLET\n");

System.***out***.printf("Your current wallet balance is INR %.2f\n", *wallet*.getBalance());

System.***out***.println("Do you want to deposit more amount to your wallet?");

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

System.***out***.println("2. No");

**int** choice = scanner.nextInt();

**switch** (choice) {

**case** 1:

System.***out***.print("Enter the amount (INR): ");

**double** amount = scanner.nextDouble();

*wallet*.deposit(amount);

System.***out***.printf("Your wallet balance updated successfully. Current wallet balance: INR %.2f\n", *wallet*.getBalance());

**break**;

**case** 2:

**break**;

**default**:

System.***out***.println("Invalid choice. Please try again.");

}

}

**private** **static** **void** exitApplication() {

System.***out***.println("Exiting the application... Goodbye!");

System.*exit*(0);

}

}

**package** com.camerarental.bean.wallet;

**public** **class** Wallet {

**private** **double** balance;

**public** Wallet() {

**this**.balance = 0.0;

}

**public** **double** getBalance() {

**return** balance;

}

**public** **void** deposit(**double** amount) {

balance += amount;

}

**public** **boolean** withdraw(**double** amount) {

**if** (amount <= balance) {

balance =balance-amount;

**return** **true**;

}

**return** **false**;

}

}