```
package com.simpli;
import java.util.ArrayList;
import java.util.List;
import java.util.Scanner;

class Camera {
    private String brand;
    private String model;
    private double rentalPrice;
    private boolean available;

    public Camera(String brand, String model, double rentalPrice) {
        this.brand = brand;
        this.model = model;
        this.rentalPrice = rentalPrice;
        this.available = true; // Set the camera as available by default
    }

    public String getBrand() {
        return brand;
    }

    public String getModel() {
        return model;
    }

    public double getRentalPrice() {
        return rentalPrice;
    }

    public boolean isAvailable() {
```

```
        return available;
    }

    public void setAvailable(boolean available) {
        this.available = available;
    }
}

class CameraList {
    private List<Camera> cameras;

    public CameraList() {
        cameras = new ArrayList<>();
    }

    public void addCamera(Camera camera) {
        cameras.add(camera);
    }

    public void removeCamera(int index) {
        if (index >= 0 && index < cameras.size()) {
            cameras.remove(index);
            System.out.println("Camera removed successfully.");
        } else {
            System.out.println("Invalid camera index. Please try again.");
        }
    }

    public List<Camera> getCameras() {
        return cameras;
    }
```

```
    public boolean isEmpty() {
        return cameras.isEmpty();
    }
}

class Wallet {
    private double balance;

    public Wallet() {
        balance = 0.0;
    }

    public double getBalance() {
        return balance;
    }

    public void setBalance(double amount) {
        balance = amount;
    }

    public void increaseBalance(double amount) {
        balance += amount;
    }

    public void decreaseBalance(double amount) {
        balance -= amount;
    }

    public boolean hasEnoughBalance(double amount) {
        return balance >= amount;
```

```
    }

    public void displayBalance() {
        System.out.println("Current Balance: $" + balance);
    }
}

public class CameraRentalApplication {
    private static CameraList cameraList = new CameraList();
    private static Wallet wallet = new Wallet();

    private static String username = "";
    private static String password = "";

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.println("Login Page");
        System.out.print("Enter username: ");
        String enteredUsername = scanner.nextLine();

        System.out.print("Enter password: ");
        String enteredPassword = scanner.nextLine();

        if (login(enteredUsername, enteredPassword)) {
            initializeData(); // Initialize some sample camera data
            displayWelcomeScreen(); // Display the welcome screen and options

            int option = scanner.nextInt();

            while (option != 6) {
```

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            switch (option) {
                case 1:
                    listCameras();
                    break;
                case 2:
                    addCamera(scanner);
                    break;
                case 3:
                    rentCamera(scanner);
                    break;
                case 4:
                    handleWallet(scanner);
                    break;
                case 5:
                    removeCamera(scanner);
                    break;
                default:
                    System.out.println("Invalid option. Please try again.");
                    break;
            }

            displayWelcomeScreen();
            option = scanner.nextInt();
        }

        System.out.println("Application closed.");
    } else {
        System.out.println("Login failed. Invalid username or password.");
    }
}
```

```
private static boolean login(String enteredUsername, String enteredPassword) {
    return enteredUsername.equals(username) && enteredPassword.equals(password);
}

private static void initializeData() {
    Camera camera1 = new Camera("Canon", "EOS R5", 50.0);
    Camera camera2 = new Camera("Sony", "Alpha A7R IV", 60.0);
    Camera camera3 = new Camera("Nikon", "Z7 II", 55.0);

    cameraList.addCamera(camera1);
    cameraList.addCamera(camera2);
    cameraList.addCamera(camera3);
}

private static void displayWelcomeScreen() {
    System.out.println("Welcome to rentmycam.io");
    System.out.println("Developer: Your Name");
    System.out.println("Please select an option:");
    System.out.println("1. List Cameras");
    System.out.println("2. Add Camera");
    System.out.println("3. Rent Camera");
    System.out.println("4. Add/View Wallet Amount");
    System.out.println("5. Remove Camera");
    System.out.println("6. Close Application");
}

private static void listCameras() {
    List<Camera> cameras = cameraList.getCameras();

    if (cameras.isEmpty()) {
        System.out.println("No cameras available.");
```

```
        } else {
            System.out.println("Available Cameras:");
            for (int i = 0; i < cameras.size(); i++) {
                Camera camera = cameras.get(i);
                String availability = camera.isAvailable() ? "Available" : "Not Available";
                System.out.println((i + 1) + ". " + camera.getBrand() + " " + camera.getModel() + " (Per-day Rental Price: $" + camera.getRentalPrice() + ", Status: " + availability + ")");
            }
        }
    }

    private static void addCamera(Scanner scanner) {
        System.out.print("Enter the brand: ");
        String brand = scanner.next();

        System.out.print("Enter the model: ");
        String model = scanner.next();

        System.out.print("Enter the rental price: $");
        double rentalPrice = scanner.nextDouble();

        Camera newCamera = new Camera(brand, model, rentalPrice);
        cameraList.addCamera(newCamera);

        System.out.println("Camera added successfully!");
    }

    private static void rentCamera(Scanner scanner) {
        System.out.println("Enter the index number of the camera you want to rent:");
        int index = scanner.nextInt();
```

```
    List<Camera> cameras = cameraList.getCameras();

    if (index >= 1 && index <= cameras.size()) {
        Camera selectedCamera = cameras.get(index - 1);

        if (selectedCamera.isAvailable()) {
            double rentalPrice = selectedCamera.getRentalPrice();

            if (wallet.hasEnoughBalance(rentalPrice)) {
                wallet.decreaseBalance(rentalPrice);
                selectedCamera.setAvailable(false);
                System.out.println("Camera rented successfully!");
            } else {
                System.out.println("Insufficient balance in the wallet. Please add funds.");
            }
        } else {
            System.out.println("Camera is not available for rent.");
        }
    } else {
        System.out.println("Invalid camera index. Please try again.");
    }
}

private static void handleWallet(Scanner scanner) {
    wallet.displayBalance(); // Display current balance

    System.out.println("Do you want to add funds? (y/n)");
    String choice = scanner.next();

    if (choice.equalsIgnoreCase("y")) {
        System.out.println("Enter the amount to add:");
```

```
            double amount = scanner.nextDouble();
            wallet.increaseBalance(amount);
            System.out.println("Funds added successfully!");
        }
    }

    private static void removeCamera(Scanner scanner) {
        listCameras();

        if (!cameraList.isEmpty()) {
            System.out.println("Enter the index number of the camera you want to remove:");
            int index = scanner.nextInt();

            cameraList.removeCamera(index - 1);
        }
    }
}
```