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Camera Rental Application

Problem Statement: Build a peer-to-peer camera rental application (Java).

Sprint Planning:

Sprint1 (week1)

• Front End Development

Day1- Project Setup and Planning

- o Setting the development environment
- o Project Scope & Objectives
- o Requirements Analysis

Day 2-3 Design

- o Design the Application
- o Create the mock-ups
- o Layout the structure

Day4-5 Implementation

- o Front End Implementation
- o Main Layouts
- o Create Lists

Day 6-7 Authentication

- o Create the user Registration
- o Set the authentication.

Sprint 2(week2)

Back End

Day 8 Database Setup

- o Set database to store camera information
- o Define schemas

Day9-10 Camera Management

- o Functionalities of all cameras
- View Available cameras

Day 11-12 Wallet

- o Create wallet
- o Functionalities for the wallet
- o Balance Check up

Day 13-14 Renting of camera

- o Functionalities of Rent
- o Update camera Details when rented

Algorithm

- 1. Initialize the application
- 2. User Authentication
- 3. Main Menu
- 4. Display options
 - > Add a camera
 - > Remove a camera
 - ➤ View all Cameras
 - > Rent a camera
 - ➤ My wallet
 - > Exit
- 5. User selects the option
- 6. Based on selection:

Option a Add

- o Prompt the user to enter details for camera(model,Name,price)
- o Generate a ID for camera
- o Add Cameras to all my cameras list

Option b Remove

- o Display all the cameras
- o Prompt the user to select which camera to be removed

Option c View all Cameras

o View all cameras in the list

Option d Rent a camera

- o Display all the cameras in the list available with status
- o Prompt the user to select the Camera Id
- Check the Amount (balance in the Wallet)
- If balance is sufficient then point the camera as rented and detect the amount from the wallet

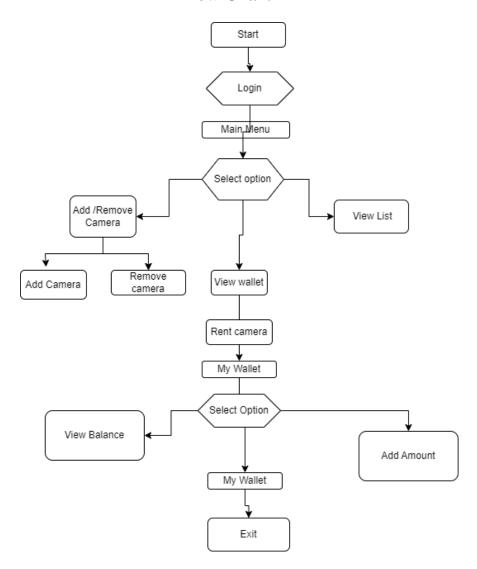
Option e My Wallet

- Display Balance
- o If balance is not sufficient prompt the user to add amount to the wallet

Option f Exit

o Terminate from the application

Flow Chart



Java Concepts Used

- Classes and Objects
- > Encapsulation
- Constructor
- > Inheritance
- Data Collection
- Method Overloading
- > Getter and Setter Methods

Project Flow

```
Start
```

```
Login--->Login Success..?
--No—(Login)
--Yes—(Main Menu)
```

Main Menu

User Choice ... (1) Add Camera

- (2) Remove Camera
- (3) View Camera
- (4) Rent a Camera
- (5) My Wallet
- (6) Exit

(Add/Remove Camera)

(1) Add Camera

(2) Remove Camera

Select camera

(3) View Camera

Display all Cameras

(4) Rent camera

(5) My Wallet

Display Balance

If Insufficient----Add amount

(6) Exit

Terminate the application