SAHAR LATIFI

Online Car Rental Platform.

Course-end Project 2

DESCRIPTION

Build an online car rental platform using Object-Oriented Programming in Python.

This is a simplified online car rental platform. Customers will be able to:

1. View a list of all cars
2. View a list of all available cars
3. Choose the rental basis (Which could be hourly, daily and weekly-basis)
4. Choose the brand, model and number of cars to rent
5. Return a car by car_id
6. Return all rented cars at once

Notes:

- My car object is a list of tuples, each representing a car. Cars come in a variety of brands and models.(Outside of the project scope. I did it for learning purpose)
- Each car will be unique by a car identification.(Outside of the project scope. I did it for learning purpose)

  This is an example of a car item:

  (11, 'Toyota', 'CHR', 2023, 36,000, 1)

  - ✓ 11 is the car identification.
  - ✓ “Toyota” is the brand.
  - ✓ “CHR” is the model.
  - ✓ “2023” is production year.
  - ✓ “36,000” is the price.
  - ✓ “1” is the availability status. 1 means the car is available and 0 means it has been rented.
- The customer can see a list of all cars with their characteristics and availability status.

For simplicity I assumed that:

- The rent price does not differ by brand, year and any other car characteristics.
- The customer will enter a valid car_id for returning the car. I do not check that the car_id is valid.
- Rent datetime will be assigned by the time the customer rents the car. For showing the time difference while testing the code I assigned a fixed datetime value to the rent date time.