**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:

* The 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.