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This app does the minimal car rental assignment requirements.

X4 cars are added when running the module. They can be modified in the autolease.py module:

class AutoLease:

    rental\_rates = {

        "day": 35.00,  # USD

        "week": 220,

        "month": 980,

    }

    cars = [

        Car("Toyota", "Corolla", 2020, "blue", 1),

        Car("Ford", "Mustang", 2021, "green", 2),

        Car("Honda", "Civic", 2019, "red", 2),

        Car("Chevy", "Volt", 2016, "gray", 1)

    ]

The commands:

1. list-customers - list all customers
2. new-customer - create a new customer
3. find-customer - find a customer by email
4. select-customer - select a customer by id
5. active-customer - show the active customer
6. list-rentals - list all rentals
7. help - show this help

Simple program that is intended to be used by the rental car agent. The rental car agent creates a new user and is given an option to set that user as the active user. Agent then uses the rent command to display a list of available cars (determined by quantity of cars being greater than zero). Agent communicates to customer to determine the car and quantity of that car they would like and the mode (day, week, month). On completion the car availability is taken out of site inventory if there is enough supply, and the start date is captured. Agent can capture a second car for the user by repeating the process.

Note the system does not save anything to disk as this is just an exercise so it is far from a production implementation. Agent uses the return command to help identify the customer returning the car and create a final bill. The bill is computed by a predefined rate, by the quantity of cars by the number of days, weeks or months. The rates reflect a discount for longer time intervals.