Hiring Project – Python

You will be creating a simple python app to manage the rental of bikes and scooters for a small start-up. The app will be used by the employees of the startup to manage their vehicles and rentals. You can complete this task either by using some web frameworks like (Django or FastAPI) OR Class-Object

Following vehicles, are available for rental. {'vehicle_type': inventory}

{'bikes':2, 'cycle':3, 'car':1, 'boat':2}

The employees can add customers, add rental bookings,view customer list, view rental bookings, and view inventory.

While making a new rental booking, the app needs to check, whether the vehicle is there in the inventory, if yes, the enter in the database, and reduce the inventory by 1. If not, then a message can be shown "{vehichle} cannot be rented as it is already booked"

Following customer details need to be asked:

- CustomerName, PhoneNumber, Email

Following rental details need to be asked:

- CustomerName (select from a list), rental_date, return_date (can be NULL), vehichle_type (select from list)

You are free to use your set of assumptions wherever required.

Submission in the form of a git link.

For web frameworks like Django or FastAPI:

- Use forms for user inputs
- Following views need to be visible:
    1. Add customer
    2. Add rental booking
    3. See customer list
    4. See rental booking list
    5. See inventory of vehicles available
- Use simple html or bootstrap for creating front end views
- Predefine the vehicle list in database.

For Classes, Objects, Inheritance

- Use python shell, which displays menu, asks user
    1. Add customer
    2. Add rental booking
    3. See customer list
    4. See rental booking list
    5. See inventory of vehicles available
- Once the user selects an option, relevant operation needs to be displayed
- Predefine the vehicle list in dictionary or list