# Cloud Administation & Security Project -- Dice Game Student Name : Xu CUI Student ID : 6188419

### **Game explains:**

1. My application has been deployed in ubuntu AWS EC2. The file structure is as below: In folder NewProject, which including:

---One python file : app.py;

---Two folders: static & templates

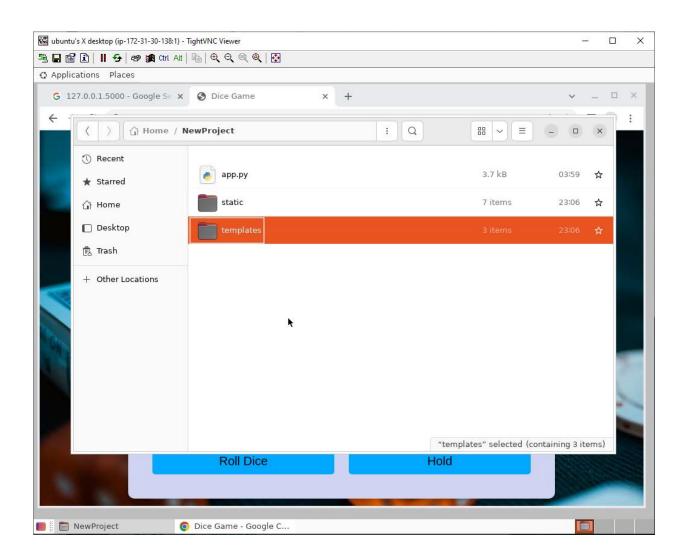
■ Folder static: use to store pictures

■ Templates : use to store all my html file :

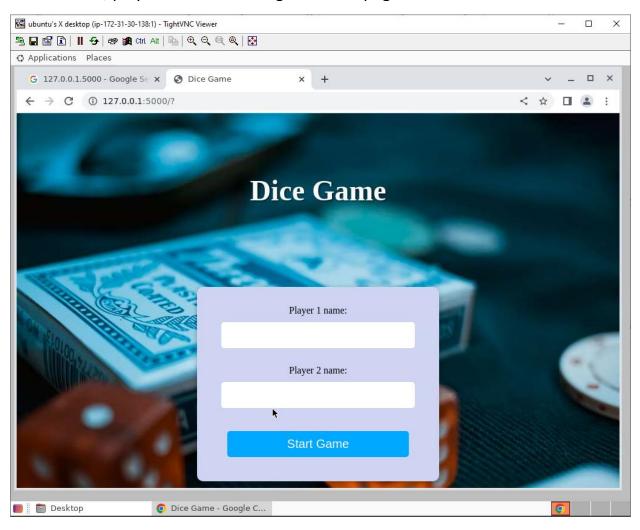
o index.html

o game.html

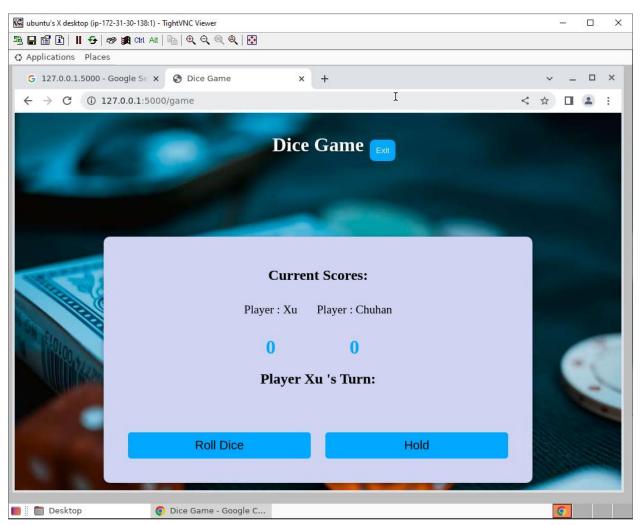
o winner.html



2. This is login interface, after input two players name and press start game button, players will enter the game main page.

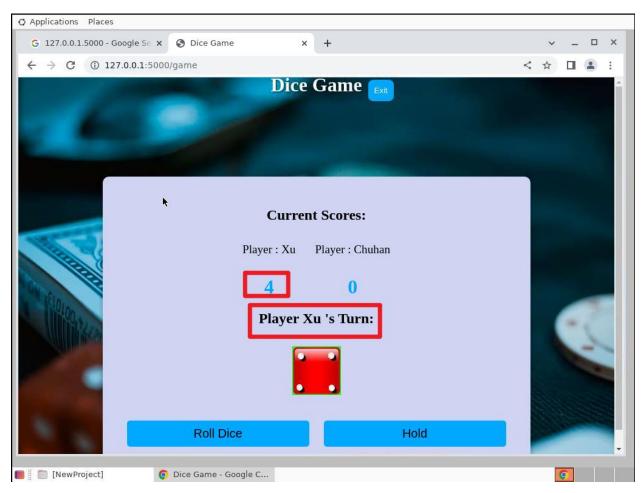


3. The default main page of game shows two players name and their oringal scores. Under players names, we can also see which player is on turn. There are two buttons at the blow: one is roll, the other is hold. There is also one button next two the Dice Game heading, which can bring players back to game login page.

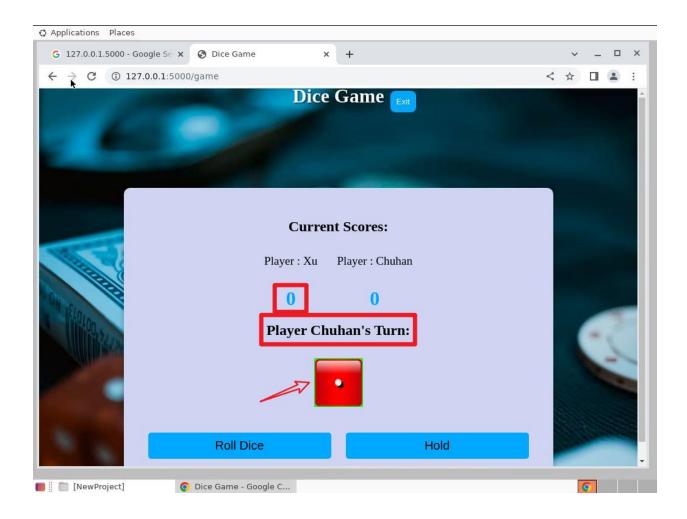


4. On turn player press "Roll Dice", game start. Of course if he likes, he can also press hold button to give his turn to another player.

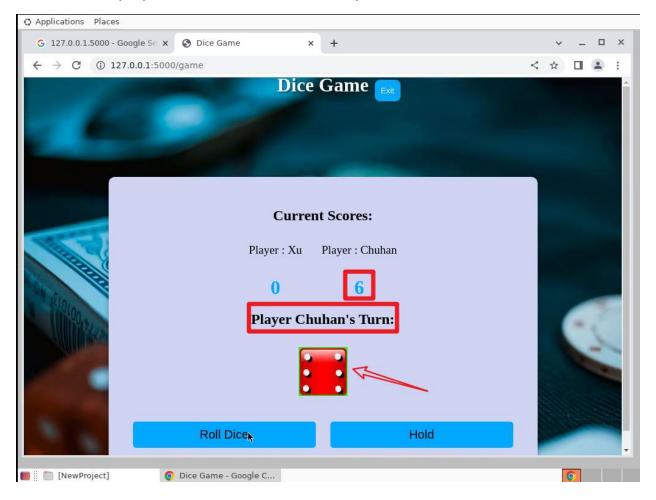
When he press Roll Dice button, a dice picture appeared. The number of point on the dice is same as the ramdon number produced by app.py file. At the same time, current player get a score equal to the points on the dice pic.



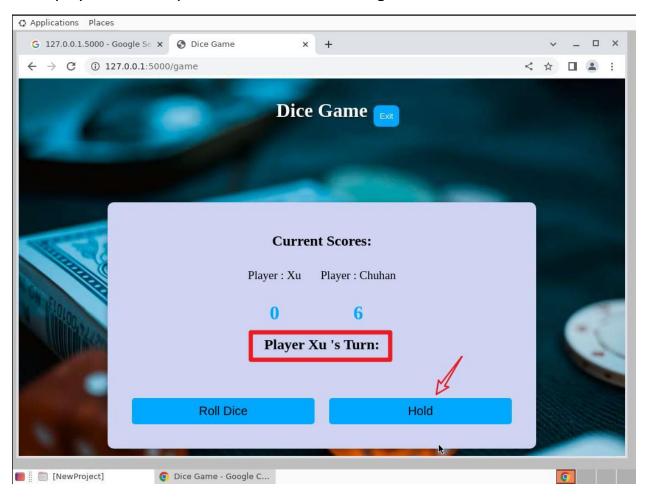
5. If current player press roll dice button again new number will be accumulated to excisting number. But if he the dice number is 1. Players score will be reset to 0, and change to another turn to play.



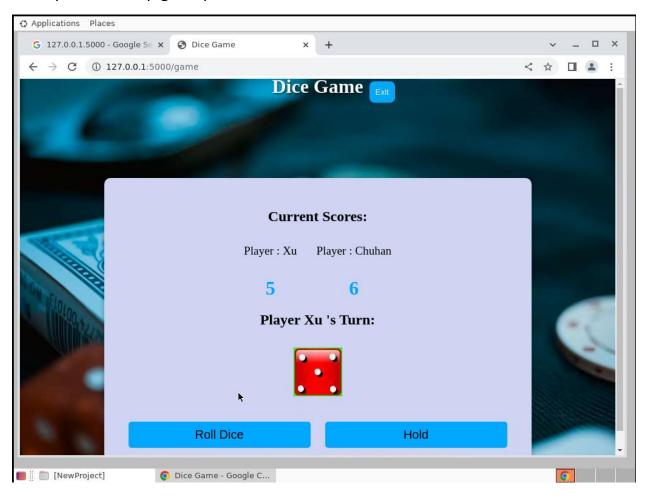
6. Second player roll dice, and number of point will be added to his score.



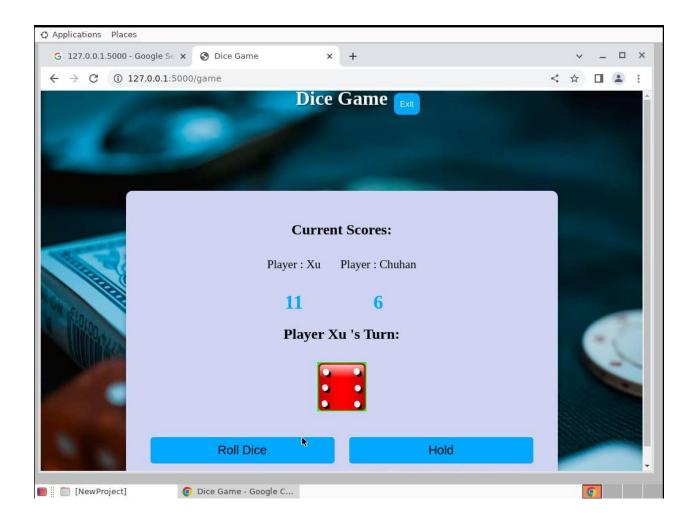
7. If second player press hold, the first player will be on turn. Score of second player will be kept same untill he on turn again.



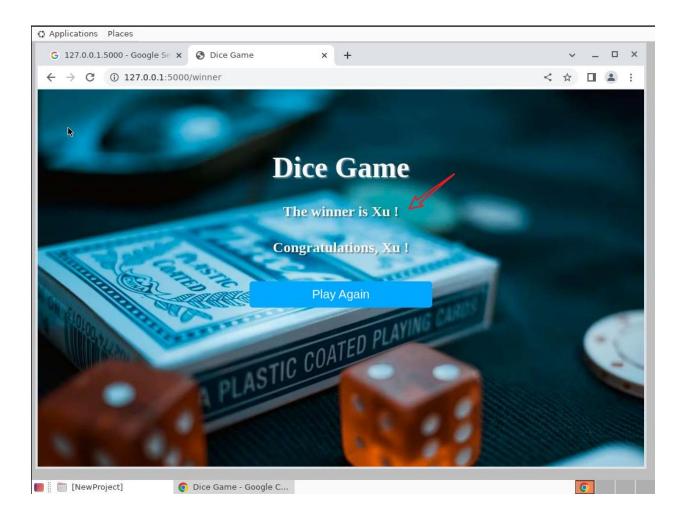
8. The first player on turn again and the score will start from 0, becaue his previous step got 1 point.



9. Frist player roll dice again. The new score will be accumulated.

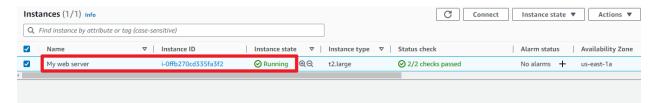


10.until one of the players score equal or above 20. The first person who has the 20 or more points, will be the winner. Players can choose play again in the winner page.

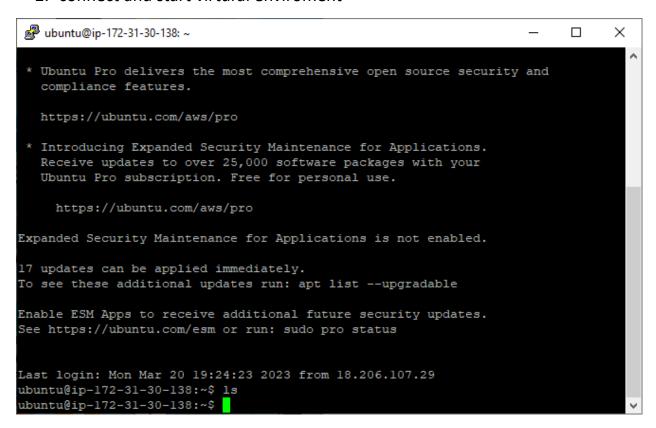


## **Depoly applicatin on ubuntu EC2**

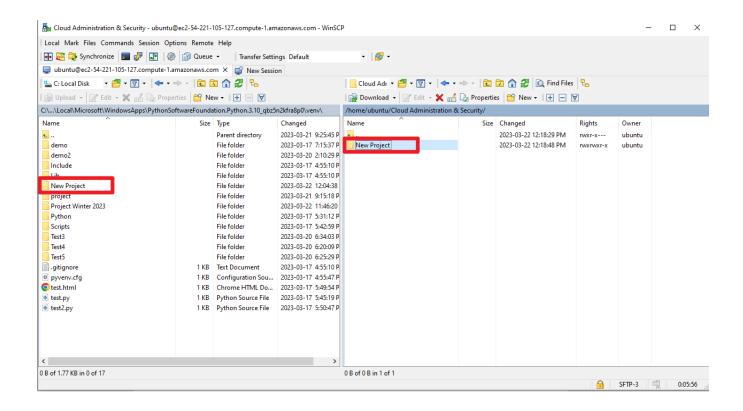
#### 1. start EC2 instance



#### 2. connect and start virtural environment.



# 3. install WINSCP and transfer application files to remote environment



## 4. install flask, chrome browser and Deploy application

```
ubuntu@ip-172-31-30-138: ~/CA_Project/New_Project
                                                                                                                                                          ubuntu@ip-172-31-30-138:~$ python3 /New_Project/app.py
python3: can't open file '/New_Project/app.py': [Errno 2] No such file or directory
ubuntu@ip-172-31-30-138:~$ 1s
ubuntu@ip-172-31-30-138:~$ python3 /CA_New_Project/app.py
python3: can't open file '/CA_New_Project/app.py': [Errno 2] No such file or directory
ubuntu@ip-172-31-30-138:~$ python3 /CA_New_Project/app.py
python3: can't open file '/CA_New_Project/app.py': [Errno 2] No such file or directory
ubuntu@ip-172-31-30-138:~$ ^C
ubuntu@ip-172-31-30-138:~$ source path/to/venv/bin/activate
-bash: path/to/venv/bin/activate: No such file or directory
ubuntu@ip-172-31-30-138:~$ . path/to/venv/bin/activate
 -bash: path/to/venv/bin/activate: No such file or directory
ubuntu@ip-172-31-30-138:~$ 1s
ubuntu@ip-172-31-30-138:~$ cd CA Project
ubuntu@ip-172-31-30-138:~/CA_Project$ 1s
 ubuntu@ip-172-31-30-138:~/CA_Project$ cd New_Project
ubuntu@ip-172-31-30-138:~/CA_Project/New_Project$ python3 app.py
  * Serving Flask app 'app'
 * Debug mode: on
 **ARNING: This is a development server. Do not use it in a production deployment. Us
** Running on http://127.0.0.1:5000
                                                                                                                    a production WSGI server instead.
  * Restarting with stat
  * Debugger is active!
  * Debugger PIN: 989-442-791
 Cubuntu@ip-172-31-30-138:~/CA Project/New Project$ http://127.0.0.1:5000^C
ubuntu@ip-172-31-30-138:~/CA_Project/New_Project$
```

# 5. Open browser in tightVNC viewer

