Marshall Brown Professor Hind Aldabagh CYSE 250 12/8/2023

NFL Socket Programming Project

I created my Socket Programming project about the NFL. The main idea for the program is for the Client to ask the Server for information on teams who reside inside of the NFC East in the NFL. If the Servers see's the client provided the correct information, it will encode it and send it back to the client where it will decode that information and be displayed.

After further research, I realized I couldn't get all 32 NFL teams like I wanted before the project and make it an automated response based on an API database. However, I was not able to find an API key for any sort of API NFL database. Therefore, I just had to stick with listing out the 4 NFC East teams and information about them going off the NFL website.

I am working off an HP Envy laptop with 16 GB of RAM and an i7 graphics card with 500 GB of storage. The computer was able to run it perfectly fine with zero issues. I also ran the code in IDLE (Python 3.10 64 bits). I have moved on to Visual Studio Code. However, for the presentation, I just stuck with IDLE.

The biggest challenge I faced was figuring out how to send the responses over to the client. I had it to where it would send the first line of code in the def question part of the code where it talks about the Dallas Cowboys. But if I were to type in any other NFC East team it would only send data about the Cowboys.

A workaround I found to fix that was something very simple, per usual for any error in Python. I had the "or" wrong in the first line where it says Cowboys or Dallas. I didn't word it correctly and that's what made it always respond with the Cowboys data because the line was never broke and just continued to go off that.

APPENDIX:

Client Program:

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Client program output:
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Client program output:

Edit Shell Debug Options Window Help			
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64] Type "help", "copyright", "credits" or "license()" for more information.	pit (AMD64)] on wir	132
EISTART: C:\Users\marsh\OneDrive\Desktop\Client.py ======== List a team in the NFC East in the NFL to learn more: Tell me about the Eag Server's answer: The Philadelphia Eagles are owned by Jeffrey Lurie and loc. They were founded in 1933.They have 1 Super Bowl Title. And this is their P. They are a Top 10 team in the NFL right now!	les ated in Penn		

Server Program:



Server program output:

