

DOCUMENTATION FOR ASSIGNMENT

I choose this solution because

According to given task and time I thought this could be an appropriate solution I can come up with. I used Python and Django because I have some knowledge of python and thought it would be an advantage if I used python and Django. I have also used git to maintain the project and update changes easily and keep track of them.

Challenges I faced during the assignment

During the initial stages I came up with many challenges I solved them one by one. I faced some problems writing the code in Django as I had less experience in that and then with Docker and YML files but I have learnt a lot from these problems

To run the solution

- first unzip the playtech.zip file.
- cd into this directory and ls then you can see Dockerfile and yml files along with source code and documentation.txt files.
- If you have docker pre-installed, you can run
"docker build - < Dockerfile"
command to build the docker image for this Dockerfile.
- After build is done, you can check the **"docker images -a"** to view the build image and can find its image-id
- Then type **"docker run -it -p 8000:8000 image-id"** to run the docker image as container.

[note: here the image-id is an alphanumeric string.]

- You can test it locally on the browser by **"127.0.0.1:8000"** or **"localhost:8000"**.
- Then you can find the list of players and if you select any player from the list you can get the complete statistics of that player.
- You can make deployment in the kubernetes using the yml file: playtech-deployment.yml.
- If you run **"kubectl create -f playtech-deployment.yml"**, then a deployment is created in kubernetes.
- You can check the deployments with **"kubectl get deployments"** commands.
- If you to know more about the deployment you can type **"kubectl describe deployment/deployment-name"**

[note: here the deployment is playtech-deployment]

- Then to create a kubernetes service you can run the command **"kubectl create -f service-playtech.yml"**
- to check run **"kubectl get services"** or **"kubectl describe service/servicename"**
- To create ingress run **"kubectl run -f playtech-ingress.yml"**
- To check it run **"kubectl get ing"** command.