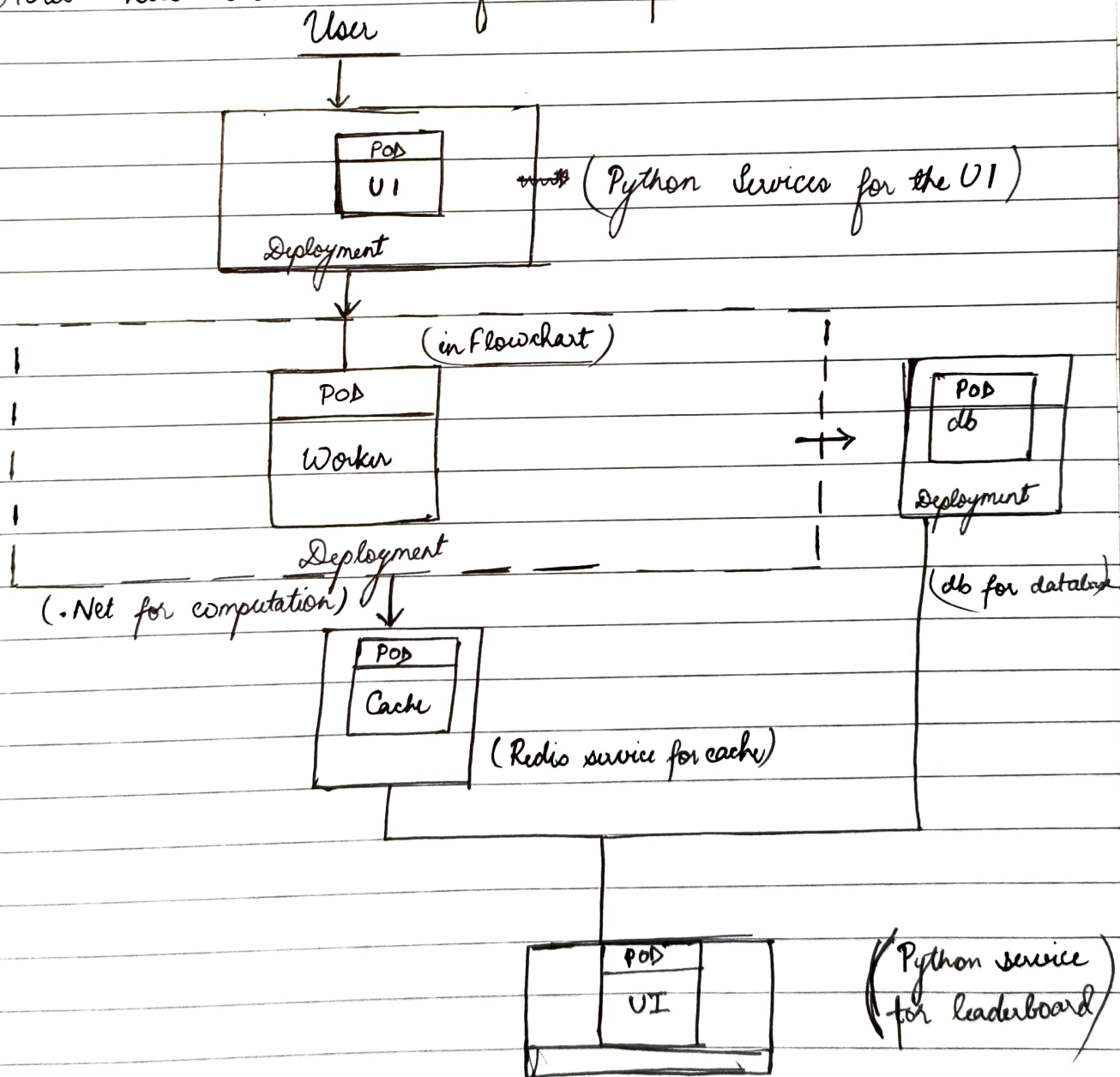


## → Flowchart for real time computation

- Let us assume that in a pool there are 500k entries, the leaderboard would show top 10 players.
- We would keep records of top 10 players in cache memory so they are easily accessible. We may use Redis service for that.
- For the rest, we would use permanent database
- Here's kubernetes version for the flowchart



- I would use EC2 for hosting the ~~services~~ servers, docker containers of Python, Redis, .Net and Postgres as it is more convenient than the actual softwares.
- I have used deployments so that scalability won't be an issue.
- The flowchart displays computation for top 10 positions only.
- Insertion sort can be used as sorting algorithm in Cache memory as its best for already ~~sort~~ nearly sorted data and data entry is also small in cache memory.
- Rest data which is in Database is sorted, but since its not to be displayed on leaderboard, so we can spare some time for sorting it.