Palo IT Technical Challenge

Instructions

- Your code must Compile and Run
- Feel free to use any programming language or framework
- We prefer a full-stack solution, but quality over quantity
- We generally allow you to take up to 3 days to complete the tasks

We expect you to deliver good quality code that you're happy to run, test, maintain and extend

Problem:

The year is 2025 and the worldwide zombie apocalypse has reached its peak moment in Sydney. The city is in chaos due to zombies biting and chasing regular citizens on the streets. This horrendous tragedy has caused all the hospitals within Sydney to become overcrowded, people with different diseases and triages have jammed hospital emergency rooms as they wait for their treatments.

Luckily, you are the last surviving Software Engineer and the entire city is counting on you.

How can you help?

Simple - hospitals in Sydney have provided us with information on how many victims they have in their waiting rooms. This information can be obtained using the following API (http://dmmw-api.australiaeast.cloudapp.azure.com:8080/hospitals), which will return information about the waiting list as shown below.

```
"waitingList": [
  {
    "patientCount": 10,
    "levelOfPain": 0,
    "averageProcessTime": 20
  }
]
```

patientCount field shows how many people are currently waiting for their treatment, *levelOfPain* shows how severe the zombie disease is (from 0 to 4, where 4 is the worst and 0 the least dangerous). And *averageProcessTime* shows how much time in minutes goes for one patient treatment.

Your application Must to do the following:

- Query the illnesses from the api (http://dmmw-api.australiaeast.cloudapp.azure.com:8080/illnesses)
- Allow the user to select their illness and grade their level of pain from 0-4
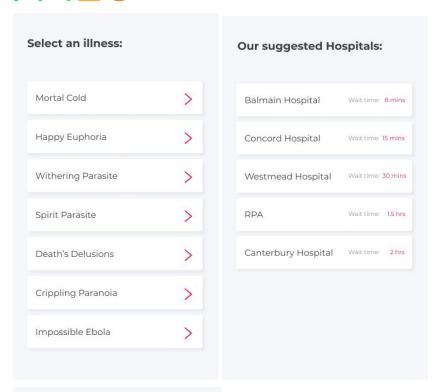
- Calculate waiting times based on the patient's level of pain and hospitals average process times
- Show hospitals back to the user ordered by waiting time (Shortest to longest)
- Store new Patient information in your selected database
- For the UI you can use the screens provided below for inspiration

Example output

Level of pain	Hospital	Avg process time	Patients at waiting list	Waiting time
1	Hospital 1	25 minutes	13	325
1	Hospital 2	30 minutes	11	330

Select an illness:

Mortal Cold	>
Happy Euphoria	>
Withering Parasite	>
Spirit Parasite	>
Death's Delusions	>
Crippling Paranoia	>
Impossible Ebola	>

Our suggested Hospitals:

Balmain Hospital	Wait time:	8 mins
Concord Hospital	Wait time:	15 mins
Westmead Hospital	Wait time:	30 mins
RPA	Wait time:	1.5 hrs
Canterbury Hospital	Wait time:	2 hrs

Select severity level:
Withing Parasite