

# **Project Ozymandias**



# The project

## Ozymandyas Perfect Holidays LTD

Ozymandyas Perfect Holidays LTD is the number 1 service in the world to plan your perfect holidays. Our sophisticated systems are able to design your perfect holidays based on your own personal preferences.

As registered user, you can set your profile and we will look in our system, based on your preferences, dates available and the perfect weather for the activities, to design the best experience for you.

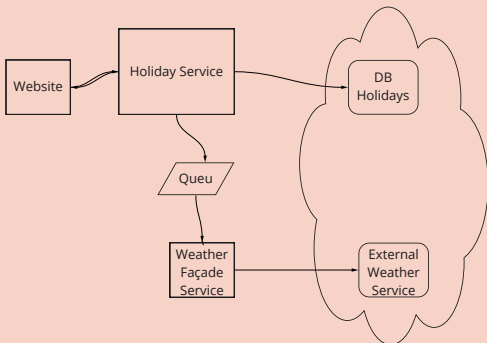
### How our system works?

We have a website, in which you can log in, pick some criterias from our set of 5 types available. Then you pick the dates and our systems will do the rest for you.

Our database and the sophisticated algorithm calculates what is the best for you; then we consume an external weather system, and when the weather report is available, we will update your possible candidates and discard the ones don't fit for that weather.

Please take a look to the diagram for a better understanding of the full system.

System Diagram



### Some constraints

- Our new system will replace the current one, with the same behaviour.
- The Holidays DB is also maintained by other systems. WE can update our customer's requests data, but the setup of the experiences types, etc are update by other system.
- We need to use the REAL PRODUCTION database to verify our new system.
- The queue will prevent for lose messages, and will reply in a asynchronous way.
- We also need to check if our system will process the amount of messages required in the real system, around 1000 request per sec.

### What do you need to do?

- The test strategy for the new system.
- A set of automated test, in any language you want, to verify a part of the external weather API <https://openweathermap.org/api>. You can use any language and any framework you like; the idea is to cover a part of the api, explain your approach and the use of different techniques.