Criteria A

My client, who is a physics teacher, loves astronomy. Due to this, he likes going out to observe the universe. To do so, he looks up the weather forecast and tries to guess how good can be the observation. The problem is that the data that matters to an astronomer is hard to find on a typical weather app. He needed a way to see on a first glance how good would be the sky. On mid-December 2018, we did an interview and came up with an idea: build a web that showed the forecast and evaluated the quality of the sky automatically.
After sketching the project, we decided that the product should be able to accomplish the following criteria.

Success criteria

- Get the location of the client
- Get the forecast based on the clients location
- The client has to be able to login and register as:
    - Admin
    - Normal user
- The client has to be able to contact with the administrator
- The administrator has to be able to reply to the email
- There should be a register of the usage
    - The user should be able to visualize it

Solution proposed

As this needs to be accessed from many places, we will use a web page. We will get the location from the browser using javascript and using fetch we will get the data from an api such as Darksky. For the login and register we will use ajax, php and mysql because it is the most used and is very versatile. For the contact we will use the same pack instead of an email. That way the client doesn't have access to the mail account, but for the administrative reply we will use python3 and gmail smtp server because I have experience with this structure and it would be easier form to adapt it than to create it from scratch using php. For the location register we will use mysql. When storing the data we will only keep a count of the people in a location and not the other way around because that way the data is anonymous avoiding the ethical concerns related with storing private data.