

Impact on our project “The Smart Cook”

Based on the given paper and video, we realized that there are a few things we have not yet thought about in great detail in our project.

A major point that impacted our project is that we want to specialize our workforce to work on the project as efficiently as possible. This would be of way bigger impact if our group would consist of more people, but since we are only two people (so far), we can't differentiate too much, as there still must be a common understanding on how to link our different specializations together. In our case we want one of us to specialize on the API and Back-End Development and one of us to specialize on the Front-End Development with a good User Interface etc. We also need to think of how we incorporate the ML-Team into our project, so we see that as a third cluster/specialization.

For the Front-End Developer we need to identify as a user ourselves to try and see what a user would want from an app like ours. We need to think about, not only how we would make our app easy to operate, but also have enough features for it to satisfy the user and give the user a reason to use our app.

We don't just need to try and satisfy the user on the Front-End part, but also on the Back-End. When it comes to different groups that should be served by our product, we need to think about not only our perspectives, but also people who might be vegetarians or vegans, who don't want to eat any animal products. At the same time, we must think about religious reasons why someone would not eat specific things, for example how in some religions people are not allowed to eat pork, bloody meat or beef. There are also people not being able to digest dairy products or products that contain fructose, which we must keep in mind.

Another important thing to include in our project is the assurance of good data quality. We have to be aware that bad pictures could lead to misinterpretation of ingredients. To tackle this, we could give an option to manually delete, exchange or add ingredients that were not correctly analyzed by our app.

To ensure that our app gives good results we can test if it gives the same results over and over, for the same pictures, because if not, that is an indicator of bad analyzing which is one of the biggest problems our app could face.

Something that we have not thought about, is that our little group size can also be seen as an advantage. While in a small group like ours, our specializations are pretty limited, and we can't add a Team Leader or something like that into our group, to keep an eye on the overall state of our project, we have to do this on our own. But since we have a smaller group it's easier for us to communicate with each other, it's easier for us to find a time where all of our group can

meet up and look at our progress and it's easier to ensure that everyone of us can talk about his or her ideas and maybe even criticize some topics in our project.

As a smaller team it's also a lot simpler to communicate with another team, for example the ML-Team. Since we don't have a Team Leader, every one of us can function as a Team Leader and should know about everything going on right now, which is important to effectively communicate with the ML-Team.

Through this smaller team we have less to worry about multiple and conflicting goals, while there is still potential for conflicting goals, it's less likely to be a major conflict. Also, in this module in general, there is less potential for conflicting goals, with one of the biggest potential conflicts being how good one wants to do in this course, how much time one wants to spend and what grade one wants to achieve.

There's also less to worry about social loafing, since it's harder for one of us to just be lazy and not do anything. The smaller the team, the more everyone needs to engage him or herself in the project resulting in harder and, hopefully, more efficient working.

Since there was a person ill 2 weeks ago, we also thought about, if that person might join our group, how that would affect us. In this case, we would need to do some onboarding for that person, to ensure that the new person joining us, is on the same page as we are. In any case it would be better for other people to join our group than later, because the later people are joining into our group, the more things there are to explain in our onboarding. Getting a new group member would also lessen the positive points of a small group we talked about earlier in this summary. These points would only slightly lessen though, since even with another person joining our group, it would still remain decently small. There would of course also be very good advantages of getting another person to join our group, as we could specialize more on the Back-End side and maybe even have someone specialize on the Machine Learning part with the ML-Team and how to connect this with the rest of our project.

Something that is also worth to think about is ensuring the well-being of our users. For this we could tell our users whether there is a lack of specific nutrients in some recipes and what important nutrients they should get throughout the rest of their day and their meals. If we wanted to extend on that we could collect data from the users and save what kind of ingredients they used in their last meals and maybe analyze whether there is a lack of vitamins, iron or other nutrients. This is something we don't want to focus on yet, as we don't want to get our project into a feature creep, especially as this feature would mean that we would need to also think about how to secure the saved data. This might be infeasible for our team-size and the time for this project, so this is just a feature idea we keep in the back of our heads.