

Description

We received a call from a company (day center) HelloWorld. They want to build a new application and wondered if we could help them. Below you will find a transcript of the telephone conversation.

To do

- Elaborate the use case diagram for the application explained in the script below
- Elaborate the activity diagram for the primary path in your application
- Elaborate an ERD diagram that makes it possible to store all the information associated with this application

Mufachir : SoftRithm IT Limited with Mufachir.

John : Good afternoon Mufachir, my name is John from day center HelloWorld. In our day center we support adults with intellectual disabilities. We are looking for an application to support our residents and I thought this might be of interest to your company.

Mufachir : Yes, that's right, we are always looking for fun projects that we can work on with our team. It is of course true that there must also be sufficient technical challenge, euh, but if not, could you first tell me what you are looking for?

John : Well... Every month we organize all kinds of workshops, game afternoons or trips. Today we print a registration form every month and distribute it in our day center. We would have liked to have developed an application for this.

Mufachir : Yes, ok, I understand... If I hear your story like this, it seems to me something that might be solved with the help of an online form. Have you looked at that track?

John : An online form? Yes of course! But we have to take our residents into account. We want to have an application built that can be used by our residents themselves. The idea is that they can be as independent as possible. And online forms are simply too difficult for some residents to fill out. It should be very simple and preferably tailored to the resident himself. Some residents are already better at using a computer than others. Furthermore, it is also true that for some people filling in form fields is not easy at all. So it really has to be attuned to the residents themselves. Images, video, text depending on the resident. It must be possible to fine-tune it to make it challenging enough for our residents.

Mufachir : Haaah, yes I understand it already. So for some residents it may be more challenging than for others?

John : Yes, indeed. We want the residents to take everything into their own hands as much as possible. By tailoring an application to the resident, we immediately give them more responsibility and participation

Mufachir : You mentioned events earlier... What kind of events are these exactly? Can you give some examples?

John : We organize many events every month. For example, this Wednesday we go to the sea, on Saturday we organize a number of sports activities and next week we also organize a quiz. So it can be about many different types of activities. For example, these may or may not be paying, may require transport or the number of places is limited.

Mufachir : Oh that sounds great for your residents! But I was just wondering, does every resident have a computer available?

John : Oh yes, it is true that every resident has a tablet that he/she can use.

Mufachir: Ok, that's a nice bonus. And who is responsible for entering events?

John : On the first Monday of every month, the whole team gets together to make an overview of all the events that will be organized that month. Usually the coordinators and supervisors are involved, but now and then the director is also present. It may also be that we need the necessary space ourselves foresee whether to order materials to organize workshops, for example. An activity always consists of a maximum of 2 half-days. There is never an overnight stay when we organize an external activity. Furthermore, a distinction is made between paying and non-paying events. When an event is paying, it should not be more expensive than 50 euros per person and it must first be approved by our director.

Mufachir : Ok, ok. So there are different types of events and when something is paying, approval has to be requested first. If an activity takes place at a different location, is transport always provided?

John : Eum, yes that's a good question. It depends of course. For all activities on location, we always provide transport from the house itself. However, it is sometimes the case that informal caretakers prefer to arrange their own transport. In those cases we do not need to provide transport. However, all other administrative matters are always arranged through us. Parents or caretakers may provide their own transport, but tickets or the like are always arranged through us.

Mufachir : Ok, I think I have enough information about the activities you organize. What about the residents themselves? How do you want access to be arranged for those residents? I assume that not all residents can participate in all activities?

John : Our residents are always divided into living groups. An activity is always set up for one or more living groups. In this way we ensure that the activities are always geared to the needs of our residents. There are activities in which everyone can participate, but also activities that are only applicable to a single community. Perhaps it is then also important to keep some sort of overview in the system of which resident is in which community? That would be useful for our coordinators, because they are also responsible for dividing the residents into living groups.

Mufachir : Yes, I understand. So the coordinator should be able to add residents to the system, and are there other people who should have access?

John : Well, let's think... Yes, the supervisors can add events to the system anyway. The director can see everything, he also has to approve if an activity is paid.

Mufachir : Okay, anything else?

John : No, not right away.. I think I've said the most important thing.

Mufachir : Okay, I've noted everything down and together with my team I will see if this is feasible for our team-members. In the meantime, I've also opened the website HelloWorld here and see your contact details on the website, I'll let you know in the course of next week.

John : Fine, sounds good. Thanks in advance and see you soon.

Mufachir : See you later.