Course Project task: Project description

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myHealthBuddy

Our Project is about creating a mobile application that facilitate remote health counseling, because in our time while we are still fighting the coronavirus, minimal physical contact is still advised. Furthermore, there are many situations where physical checkups are not required, like for example the common cold, minor injuries, lab results analysis, follow up checkups…, we can save a lot of time by handling these situations remotely on a video call, and protect the lives of our healthcare personals.

The application will have two categories of users, the first category is the normal everyday citizens where they will be able to ask for consultations, schedule remote video calls appointments or even physical appointments if it is necessary, to view their health reports online uncovering how healthy they are and some analysis , to get also some personalized reminders and notifications regarding their health based on their own health problems and bad habits that they are trying to overcome, like remembering to take medications, drinking water, and exercising. The second category will be the healthcare service personals, like doctors can have online video based private consultations sessions with their patients, and contact them easily to notify them of certain change or something important, and also consult their appointment and access a list of information about all their patients, the application can also include nutritionists that can give personalized diet plans to people seeking to fight obesity, diabetes, heart problems…

Data Spaces

There is no necessary need for huge amount of data for this application to work, since the main goal of the application is to provide remote health consultations and for user information, we can collect that information through registration. However, if the app was to be used in public healthcare, dataset of medical records of citizens would be needed.

Some datasources that can be helpful for our analysis are:

- **Information about health problems, Death causes in Oulu/Finland**

  https://pxnet2.stat.fi/PXWeb/pxweb/fi/StatFin/StatFin__ter__ajkul/statfin_ajkul_pxt_001.px/

  https://pxnet2.stat.fi/PXWeb/pxweb/fi/StatFin/StatFin__ter__evtk/statfin_evtk_pxt_001.px/

  https://pxnet2.stat.fi/PXWeb/pxweb/fi/StatFin/StatFin__ter__ksyyt/statfin_ksyyt_pxt_11bs.px/

- **Information about Queuing times**

  https://data.ouka.fi/data/en_GB/dataset/oulun-kaupungin-terveysasemien-ja-hyvinvointikeskustenkiireettomien-aikojen-jonotilanne

The Ecosystem Map

An Ecosystem is a network of interrelated pieces that Collaborate to help end users and business stakeholders achieve their objectives. As with any user centric activity, the first job is to identify the objects which will participate in our ecosystem. The ecosystem of our solution is based on the people who act as actors, the equipment needed to use it, and the external enablers that enable its use.

The equipment needed for the ecosystem includes smart phones and computers that allow both actors, in our healthcare ecosystem, these can be patients, doctors, nurses, etc., to take advantage of the system. The media ecosystem can also utilize social media as well as websites. The system also utilizes external enablers, such as medical records, news, and near by activities, the latter of which can be used to provide reminders to patients

The living actors in our ecosystem consist mainly of patients as well as hospital staff, including doctors, nurses, and receptionists. At the heart of our ecosystem is the patient, who is the main user of the system, and from which the Ecosystem map is also drawn.

The most important role for ecosystem users is the patient initiating the use of the system. The motivation for patients to use the ecosystem is, of course, to take care of their own health. Hospital staff are motivated by the employment relationship but also by a desire to help patients. The motivator that connects all users is to minimize physical contacts and to speed up the process.