

## **DEG 2303**

### **Capstone Draft 1.1**

We're planning for three services exposing various information via API. All of them would require loading, transforming and aggregating PeaceOfMind data (that's the app that CNSD will build). The services would provide following information:

- Treatment outcome prediction. This would aggregate all treatments that were conducted regarding a specific issue and provide information how many of them ended successfully, after how much time, how much money was spent on it etc. This can be narrowed down to a specific doctor to support patient at the stage of choosing a therapy. Eg. if a patient searched a doctor to help them with depression, the service would pull all depression-related appointments from the past. Series of appointments would need to be recognised as a treatment. On top of that we'd have appointments ratings to help us figure out if a treatment was successful.
- Patient to provider matching. Based on a form a patient would fill in when starting to search for a practitioner, we'd suggest them providers specialising in the issue they're struggling with, ones that are successful and (maybe?) offer appointments in their area.
- Online vs in-person appointments. PeaceOfMind would offer online appointments as well. We'd use user's (both doctor's and patient's) location data, external APIs (perhaps Google Maps API or similar, we'd need to research that a bit) and compare how much time, money and greenhouse gases emissions they are saving by having an online appointment instead of an in-person one.