P86: Developing Biobank Donor Portal Prototype Based on User Evaluation

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Introduction

As part of the BBMRI.at project we develop a prototype for the donor portal solution. The goal of such a prototype was elicit requirements and collect user feedback.

Methods

For collecting user feedback, we continued with an iterative approach using horizontal prototyping. We made the version of the portal mock-up available to biobank administrators and distributed an educational video that presented a step-by-step guide to the interaction with the prototype. The participants were asked to leave feedback on the quality of both the mockup itself and the educational video.

Results

We collected feedback from the participants based on their experience with the biobank portal prototype and the educational video. In general, they graded the available portal mockup in a positive light, emphasizing its importance and clarity in representing information. Still, there were open issues that were addressed in the final versions of both the prototype and video. In addition, the final version of the prototype supports collecting lifecycle data from wearables such as smartwatches or blood pressure measurement devices. It includes support for collecting data from Google Fit and Fitbit.

Discussion

The final version of the prototype developed as a result of the presented activities can serve as a generic blueprint for biobanks considering developing such a portal. A particular novel feature of the portal is the support of data donation, in particular health records and various forms of lifestyle data collected by fitness gadgets or measurement journals.

Keywords

biobank, portal, data donation, lifecycle data