Assignment for a designer / engineer

Interactive data visualization in VR

In short

Your job	You are going to develop a VR application for the Meta Quest (2) with handtracking. This application will provide multiple interactive 3d visualisations of personal health data.
Your goal	To develop an app in VR that invites people to play with their personal health data. Research group Ambient Intelligence will then evaluate the effect of this play on the understanding of the data and resulting behaviour change. Inspiration for the visualization: **https://youtu.be/Yj5WmbOc5bY**
Possible solutions	The platform (OQ), the type of data (personal health) and the type of data visualization is given. It is up to you based on best practices and user evaluations to iteratively find matching intuitive interactions in VR and to adjust the data visualization to better match user needs.
About you	- You want to learn about VR development for Meta Quest - You want to learn about intuitive interaction in VR with hand tracking - You want to learn more about 3D visualizations in VR - You like to develop and test new concepts with users

Reason for this assignment

Ambient Intelligence (AmI) is a research group that specializes in making our environment smart. We use sensors, data science and augmented interaction to solve all kinds of problems in the areas of health, safety and industry. As part of a research project, we want to explore how interacting with personal health data in VR helps the user understand their data and let them act on it.

Your job

The main challenge in this assignment is to create an interactive data visualization that helps the user understand and explore their personal health data in an immersive environment (VR).
Another is to develop intuitive interaction with this visualization using hand tracking.
Depending on the amount of data, optimization to achieve a good fps may also play a role.
Are you up for the challenge?

Your client

Ambient Intelligence (AmI) is a research group that specializes in making our environment smart. Our research comprises the fields of embedded systems, data science and augmented interaction. Examples of our projects can be seen at www.saxion.nl/ami.
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