SCOM Project

"Map quality of experience of eduroam or cellular via crowdsensing (4)

For web
For video"

Crownsensing - "is a technique where a large group of individuals having mobile devices capable of sensing and computing (such as smartphones, tablet computers, wearables) collectively share data and extract information to measure, map, analyze, estimate or infer (predict) any processes of common interest. In short, this means crowdsourcing of sensor data from mobile devices"

Main requirements:

- remote server to store data
- web/android app
- End-devices capable of running such apps

Steps:

- Develop web/android app to deploy user interaction with both web and video
- Ask what type of connection the user is using (4g, eduoram… via simple and self-explanatory questions) or maybe there is a way to know this via code?
- Ask the user to rate his/her experience in e.g a scale from 0 to 5 (0 being horrible and 5 excellent)
- Maybe extract location
- Send that info to our remote server
- Map those data to… (how exactly do we map things? QoE -> type of connection or QoE -> location or both? Or neither?)

Main problems:

1) Can we put our android app on google play store? To avoid sending the app file to the users.
2) What do we do if we don't have adherence from our target public aka the users? How can we avoid this lack of data?
3) Do we need to protect the data in the connection end-device <-> server?
4) Some users probably will deny giving access to the location (if this is needed)