

# Mobile Sensing Ethics Reading

## Policy:

- Write answers only. Submit to catcourse in a single pdf file.
- Deadline: March 4, 2021

Question 1: read the following three scenarios. For each scenario, write down 1. What information is being collected? 2. What are the benefits of collecting the information? 3. How can the collected information be exploited for unintended purposes?

### Scenarios 1

A young man is struggling to find a treatment plan for his depression. He believes his current medication dose is ineffective, but his doctor tells him his lack of progress is due to poor sleeping habits and medication non-adherence. The patient begins a self-monitoring program which generates new traces of his daily activities, sleep patterns, and medicine adherence. The phone records a combination of GPS and accelerometer readings to compare his daily activity levels. The device learns the time he wakes up and sends him a sleep quality survey. It also sends medication reminders at the proper time of day, and allows him to enter assertions that he's taken the medication. The phone sends all of this data—a record of his locations throughout the day as well as sensitive information about his health—to a server to draw inferences requested by the doctor or the patient, and guide discussions with his doctor and adjustments to his care plan.

### Scenario 2

A mixed-income community in Los Angeles planning a community revitalization project. Community organizers help residents download software on their mobile phones. With the user's permission, the phones record GPS traces to document participants' routes to school and work. The phones also use location-based surveys to ask residents about the availability of healthy eating options, gathering places for youth, as well as less desirable aspects of the community like safety hazards and poor housing conditions. At the end of the data collection period, the community group uses annotated maps of community members' daily routines to contribute to a healthy community plan.

### Scenario 3

A parent is worried about her child walking home by themselves from school everyday. The parent turns on location tracking on their child's phone without telling the child because she is afraid he will be embarrassed. The parent can check the child's location whenever she wants on her own phone or at any web browser.

Question 2: Read fitbit privacy policy, find the following information

- What Information is collected?
- What can user Choose?
- What can user Access?
- What are the Security measures?
- What customer can do if privacy policy is not met
- How policy changes will be communicated
- <https://www.fitbit.com/global/us/legal/privacy-policy>