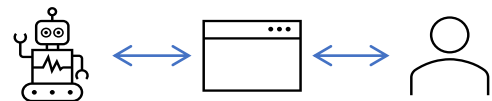


## 1. Background

- **mHealth** applications
- **Quitting smoking** and becoming more **physically active**
- **Users** commonly **quit**
- Sam, a virtual coach [1]



- Five sessions of chatting
- **Data** collected from participants
- Improve **acceptance** of Sam
- **Eases** and **difficulties** of talking

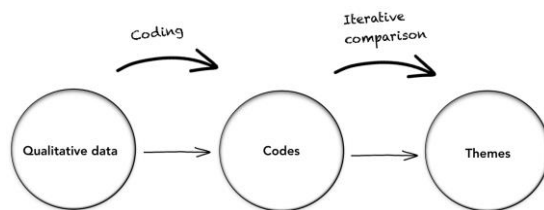
## 2. Aim

Identifying reasons for finding it easy/difficult to talk to the virtual coach.



## 3. Methodology

- Qualitative analysis, quantitative analysis and literature study
- **Qualitative analysis** of the post-questionnaire data
- Identify themes using **thematic analysis**



- **Quantitative analysis**
- **Literature study**
- Recommendations to improve Sam
  - Possible changes
  - Leave unchanged

## 4. Results

- Six themes, figure 1
- Emotional and practical
- **Motivation** and **ease** of assigned activities
- Correlation between rating and unnaturalness

*"I loved that there were a wide range of fixed responses to most of the questions, this made it very easy."* [2], P274

*"... Ideally, I'd like to be able to say something more about my current situation, what my goals were etc. and just have it more personalised."* [2], P481

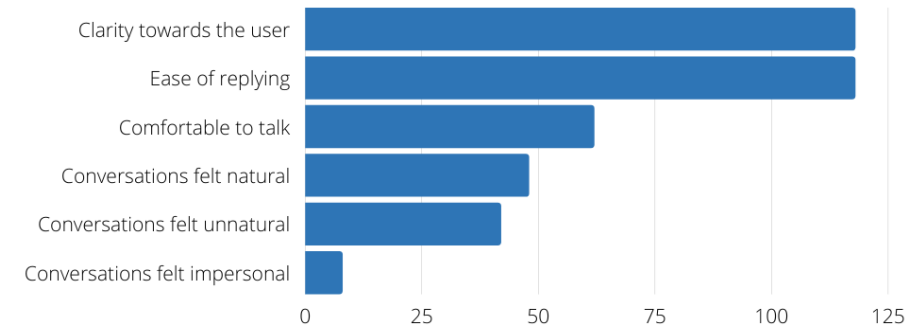


Figure 1. An overview of all identified themes and their number of occurrences.

|                                       | Correlation |
|---------------------------------------|-------------|
| Ease of the assigned activities       | 0.30        |
| Motivation of the assigned activities | 0.30        |
| Conversations felt unnatural          | -0.35       |

Figure 2. Correlations with the rating of the ease of talking to Sam ( $p < 0.05$ ).

## 5. Recommendations

|                                      |   |
|--------------------------------------|---|
| Clarity towards the user             | Keep Sam's clear, simple and informal way of talking.                         |
| Ease of replying                     | Extend the currently provided answers   |
| Comfortable to talk                  | Allow people to vent their problems and struggles.                            |
| Conversations felt unnatural/natural | Keep balance between bot- and human-like in mind.<br>Make Sam a more natural. |
| Conversations felt impersonal        | Allow Sam to talk about itself.<br>Allow Sam to tailor to users.              |

Figure 3. A summary of the recommendations given to improve Sam.