
QUESTIONNAIRE ONE

Appendix 1

- Question 1
 - How likely are you to follow the advice given by this Intelligent Agent?
 - Very Likely
 - Likely
 - Unlikely
 - Very Unlikely
- Question 2
 - How often would you like to receive advice?
 - Once Per Day
 - Twice Per Day
 - Four Times Per Day
- Question 3
 - What gender would you prefer the Intelligent Agent to be?
 - Male
 - Female
 - Neutral
- Question 4
 - What method of communication would you prefer the Intelligent Agent to use?
 - Text
 - Speech
 - Text & Speech
- Question 5
 - Are you likely to follow advice given by this Intelligent Agent if a reason for the advice is given?
 - Yes
 - No
- Question 6
 - Do you trust applications that have machine learning implemented? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.)
 - Yes
 - No

QUESTIONNAIRE TWO

Appendix 2

- Question 1
 - How likely would you to continue to follow the advice given by this Intelligent Agent?
 - Very Likely
 - Likely
 - Unlikely
 - Very Unlikely
- Question 2
 - How often would you have liked to receive advice from the Intelligent Agent during the study?
 - Once a week
 - Once Per Day
 - Twice Per Day
 - Four Times Per Day
- Question 3
 - What gender would you have preferred the Intelligent Agent to be over the course of the study period?
 - Male
 - Female
 - Neutral
- Question 4
 - What method of communication would you prefer the Intelligent Agent to have used during the study period?
 - Text
 - Speech
 - Text & Speech
- Question 5
 - Did you trust the advice given by the Intelligent Agent?
 - Yes
 - No
- Question 6
 - Do you trust applications that have machine learning implemented? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.)
 - Yes
 - No
- Question 7
 - Did you determine that the Intelligent Agent was not using machine learning? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.)
 - Yes
 - No

- Question 8
 - How do you feel about the Intelligent Agent using traditional programming techniques instead of machine learning to provide advice? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.)
 - Comfortable
 - Uncomfortable
- Question 9
 - How did you feel about the device monitoring you 24/7?
 - Comfortable
 - Uncomfortable
- Question 10
 - How much of the advice do you think you followed?
 - None of it
 - Nearly none of it
 - Most of it
 - All of it
- Question 11
 - Would you prefer to follow advice given by a human over advice given by the Intelligent Agent in this application?
 - Yes
 - No

PARTICIPANT INFORMATION SHEET

Appendix 3

PARTICIPANT INFORMATION SHEET

Human-Intelligent Agent interaction for behaviour change

You are being invited to take part in a research project. Before you decide whether or not to take part, it is important for you to understand why the research is being undertaken and what it will involve. Please take time to read the following information carefully and discuss it with others, if you wish.

Thank you for reading this.

1. What is the purpose of this research project?

The purpose of this project is to help implement more trustworthy Intelligent Agents. An Intelligent Agent is a system that acts intelligently such as Google Assistant or Alexa. The primary aim of this research project is to identify what physical and interactive attributes are crucial for an Intelligent Agent to possess in order to be considered trustworthy for providing behaviour change advice. This research project is an undergraduate research project and requires the participant to have an Android phone with Android 7 or higher installed.

2. Why have I been invited to take part?

You have been invited because you have expressed an interest and are willing to test an Android app running on Android 7 or higher and answer questions based on the app designs.

3. Do I have to take part?

No, your participation in this research project is entirely voluntary and it is up to you to decide whether or not to take part. If you decide to take part, we will discuss the research project with you and ask you to sign a consent form to participate in the study. If you decide not to take part, you do not have to explain your reasons and it will not affect your legal rights. If you are a Cardiff University student it will have no effect on your education or progression through your degree course.

You are free to withdraw your consent to participate in the research project at any time, without giving a reason, even after signing the consent form.

4. What will taking part involve?

Participating in this research project will involve the use of an Android application called Guidance. Guidance has been created specifically for this research project. Over the period of 1-2 weeks, the application will use your phone to store data (see below) which will then be used by an Intelligent Agent to provide daily advice to you. You will be given complete control over what data will be stored by the application and used by the Intelligent Agent, this data will not leave your device and will not be used in the research project. Within the application two questionnaires will be given that aim to see how or if your opinion of an Intelligent Agent has changed over the course of the study.

The data types that the application will store be:

- Steps
- Distance Walked Per Day
- Location
- Ambient Temperature
- Screentime (Time spent using applications on phone)
- Sleep Tracking (Estimation)
- Daily Weather
- Outside Temperature
- Sunrise Time
- Sunset Time
- Socialness (A rating of your interaction with friends)
- Mood (A rating of your mood)

After the installation of the application, you will be provided with the option of entering your name, age and gender (all optional). Your name will only be used to address you by the Intelligent Agent and will not be used further in the study (name will not leave the application). Age and gender will be used in the study to determine if there is a preference of specific attributes for age groups or genders.

The following will be examples of advice that the Intelligent Agent might provide to you:

- Your step count has been low over the previous few days, increasing your step count might be beneficial to you
- You have been inside for several days in a row; you might want to go outside for a walk.
- Your Screentime on [example application] was quite high yesterday, you might want to limit your Screentime for [example application]

Advice given is not based on professional medical expertise and is not a substitute for professional medical advice. If in doubt please consult with a healthcare professional.

5. Will I be paid for taking part?

No. You should understand that any data you give will be as a gift and you will not benefit financially in the future should this research project lead to the development of new Intelligent Agents.

6. What are the possible benefits of taking part?

There will be no direct advantages or benefits to you from taking part, but your contribution will help us understand which attributes are critical to an Intelligent Agent being deemed trustworthy, which will hopefully result in users benefiting more from Intelligent Agents.

7. What are the possible risks of taking part?

Participating in this study may result in a higher power consumption from your device, which will lead to the battery of your device being drained faster. However, this is unlikely to occur

because a primary aim when developing the application is to keep the power consumption of the application to a minimum.

Any advice given will pose no risk or disadvantage to you but you should ensure that you follow the relevant government guidelines and restrictions with regards to the Coronavirus (COVID-19) pandemic. The advice given by the application is not based on medical advice and should not be treated as such. It aims to assess behaviour change and is not a substitute for professional medical opinion. If in doubt please consult with a healthcare professional.

8. Will my taking part in this research project be kept confidential?

All information collected from (or about) you during the research project will be kept confidential and any personal information you provide will be managed in accordance with data protection legislation. Please see ‘What will happen to my Personal Data?’ (below) for further information.

The usage data generated by this application will contain the advice given, as well as a verdict of whether or not the advice given was followed. Usage data will also contain which data types were given permission to be collected. This usage data will be analysed at the end of the study period. This usage data can and will only be used to assess Intelligent Agents. There is no scenario or circumstances in which any usage data generated will need to be disclosed to statutory bodies or relevant agencies.

9. What will happen to my Personal Data?

Cardiff University is the Data Controller and is committed to respecting and protecting your personal data in accordance with your expectations and Data Protection legislation. Further information about Data Protection, including:

- your rights
- the legal basis under which Cardiff University processes your personal data for research
- Cardiff University’s Data Protection Policy
- how to contact the Cardiff University Data Protection Officer
- how to contact the Information Commissioner’s Office

may be found at <https://www.cardiff.ac.uk/public-information/policies-and-procedures/data-protection>

Electronic copies of the above-mentioned documentation and privacy notices, will be made available upon request by contacting Conor Kemp.

After the study period, the research team will anonymise all the personal data it has collected from, or about, you in connection with this research project, with the exception of your consent form, communication emails and email address. All emails and email addresses will be dealt with discretion. Your consent form, emails and email address will be retained until the end of the appeals process and may be accessed by members of the research team and, where necessary, by members of the University’s governance and audit teams or by regulatory authorities. Anonymised information will be kept for a minimum of 5 years but may be

published in support of the research project and/or retained indefinitely, where it is likely to have continuing value for research purposes.

Personal data collected up to the point of participant withdrawal from the research project will be kept until the conclusion of the research project. If you decide to withdraw from the research project then you will be able to decide to send or delete the usage data generated and questionnaire answers from your time using the application.

10. What happens to the data at the end of the research project?

Data collected during the research period of this project (usage data and questionnaire answers) will be used after the end of the research period to investigate the key attributes needed by an Intelligent Agent to be deemed trustworthy. The data will be made publicly available and shared within the University. Any personal data will be removed before publishing the results of the project.

11. What will happen to the results of the research project?

The results of the project are likely to be published in Autumn 2021, a copy of the published results will be made available via email. You will also be told the section of the research project that you were involved. Participants will not be identified in any report, publication or presentation.

12. What if there is a problem?

If you wish to complain, or have grounds for concerns about any aspect of the manner in which you have been approached or treated during the course of this research, please contact Conor Kemp at KempCP@cardiff.ac.uk or the project's supervisor Dr Parisa Eslambolchilar at eslambolchilarp@cardiff.ac.uk. If your complaint is not managed to your satisfaction, please contact the School of Computer Science & Informatics office at comsc-office@cardiff.ac.uk or the COMSC Ethics committee at comic-ethics@cardiff.ac.uk.

If you are harmed by taking part in this research project, there are no special compensation arrangements. If you are harmed due to someone's negligence, you may have grounds for legal action, but you may have to pay for it.

13. Who is organising and funding this research project?

The research is organised by Conor Kemp and the School of Computer Science & Informatics in Cardiff University. The supervisor for this research project is Dr Parisa Eslambolchilar.

14. Who has reviewed this research project?

This research project has been reviewed and given a favourable opinion by the School of Computer Science & Informatics Research Ethics Committee. If you are unsatisfied with the way in which this research project has been conducted please contact the COMSC Ethics committee at comic-ethics@cardiff.ac.uk.

15. Further information and contact details

Should you have any questions relating to this research project, you may contact us during normal working hours:

Name: Conor Kemp
Phone Number: 07901584963
Email: KempCP@Cardiff.ac.uk

Thank you for considering to take part in this research project. If you decide to participate, you will be given a copy of the Participant Information Sheet and a signed consent form to keep for your records.

PARTICIPANT CONSENT FORM

Appendix 4

CONSENT FORM

Title of research project: Human-Intelligent Agent interaction for behaviour change

SREC reference and committee: COMSC/Ethics/2021/036 - SCHOOL OF COMPUTER SCIENCE & INFORMATICS RESEARCH ETHICS

Name of Chief/Principal Investigator: Conor Kemp

**Please
initial box**

| | |
|---|--|
| I confirm that I have read the information sheet dated 11/03/2021 version 3 for the above research project. | |
| I confirm that I have understood the information sheet dated 11/03/2021 version 3 for the above research project and that I have had the opportunity to ask questions and that these have been answered satisfactorily. | |
| I understand that my participation is voluntary and I am free to withdraw at any time without giving a reason and without any adverse consequences (e.g. to medical care or legal rights, if relevant). I understand that if I withdraw, information about me that has already been obtained may be kept by Cardiff University. | |
| I understand that data collected during the research project may be looked at by individuals from Cardiff University or from regulatory authorities, where it is relevant to my taking part in the research project. I give permission for these individuals to have access to my data. | |
| I consent to the processing of my personal information, date of birth, gender, email address for the purposes explained to me. I understand that such information will be held in accordance with all applicable data protection legislation and in strict confidence, unless disclosure is required by law or professional obligation. | |
| I understand who will have access to personal information provided, how the data will be stored and what will happen to the data at the end of the research project. | |
| I understand that after the research project, anonymised data may be made publicly available via a data repository and may be used for purposes not related to this research project. I understand that it will not be possible to identify me from this data that is seen and used by other researchers, for ethically approved research projects, on the understanding that confidentiality will be maintained. | |
| I understand how the findings and results of the research project will be written up and published. | |

Participant ID no:

| | |
|--|--|
| I agree to take part in this research project. | |
|--|--|

Name of participant (print)

Date

Signature

Conor Kemp
Name of person taking consent
(print)

16/04/2021
Date

Conor K
Signature

Principal Investigator
Role of person taking consent
(print)

THANK YOU FOR PARTICIPATING IN OUR RESEARCH
YOU WILL BE GIVEN A COPY OF THIS CONSENT FORM TO KEEP

PARTICIPANT USAGE DATA

Appendix 6

PARTICIPANT USAGE DATA: PARTICIPANT 1

Appendix 6

| | | | |
|--------------------|--------------|---------------------|--|
| userData | 0 | age | 21 |
| | | gender | Male |
| Advice | 0 | dateTimeAdviceGiven | Thu May 06 13:00:00 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Sun May 02 15:27:32 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 1 | dateTimeAdviceGiven | Tue May 04 23:59:59 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Mon May 03 14:30:11 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 2 | dateTimeAdviceGiven | Sun May 02 23:59:59 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Sat May 01 17:19:27 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 3 | dateTimeAdviceGiven | Thu Apr 29 13:00:00 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Thu Apr 22 12:17:43 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 4 | dateTimeAdviceGiven | Thu Apr 22 23:59:59 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Wed Apr 21 12:18:41 GMT+01:00 2021 |
| | | adviceTaken | null |
| Ranking Preference | (Empty List) | | |
| questionnaire1 | 0 | dateTime | Tue Apr 20 03:13:16 GMT+01:00 2021 |
| | | question_1 | How likely are you to follow the advice given by this Intelligent Agent? |
| | | answer_1 | Unlikely |
| | | question_2 | How often would you like to receive advice? |
| | | answer_2 | Once Per Day |
| | | question_3 | What gender would you prefer the Intelligent Agent to be? |
| | | answer_3 | Male |
| | | question_4 | What method of communication would you prefer the Intelligent Agent to use? |
| | | answer_4 | Text |
| | | question_5 | Are you likely to follow advice given by this Intelligent Agent if a reason for the advice is given? |
| | | answer_5 | Yes |
| | | question_6 | Do you trust applications that have machine learning implemented? |
| | | answer_6 | Yes |
| questionnaire2 | 0 | dateTime | Mon May 03 17:37:14 GMT+01:00 2021 |
| | | question_1 | How likely would you to continue to follow the advice given by this IntelligentAgent? |
| | | answer_1 | Unlikely |
| | | question_2 | How often would you have liked to receive advice from the Intelligent Agent during the study? |
| | | answer_2 | Once Per Day |

| | |
|--------------------|---|
| question_3 | What gender would you have preferred the Intelligent Agent to be over the course of the study period? |
| answer_3 | Female |
| question_4 | What method of communication would you prefer the Intelligent Agent to have used during the study period? |
| answer_4 | Text and Speech |
| question_5 | Did you trust the advice given by the Intelligent Agent? |
| answer_5 | Yes |
| question_6 | Do you trust applications that have machine learning implemented? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| answer_6 | Yes |
| question_7 | Did you determine that the Intelligent Agent was not using machine learning? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| answer_7 | Yes |
| question_8 | How do you feel about the Intelligent Agent using traditional programming techniques instead of machine learning to provide advice? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| answer_8 | Comfortable |
| question_9 | How did you feel about the device monitoring you 24/7? |
| answer_9 | Comfortable |
| question_10 | How much of the advice do you think you followed? |
| answer_10 | Nearly None Of It |
| question_11 | Would you prefer to follow advice given by a human over advice given by the Intelligent Agent in this application? |
| answer_11 | No |

| | | | |
|-----------------------------|---|------------------|------------------------------------|
| intelligentAgentInformation | 0 | Date_Initialised | Tue Apr 20 03:11:56 GMT+01:00 2021 |
| | | End_Date | Tue Apr 27 00:00:00 GMT+01:00 2021 |
| | | Analysis | TP |
| | | Advice | NJ |
| | | Gender | XY |
| | | Interaction | HH |
| | | Output | SP |

PARTICIPANT USAGE DATA: PARTICIPANT 2

Appendix 6

| | | | |
|--------------------|--------------|------------|---|
| userData | 0 | age | 21 |
| | | gender | Male |
| Advice | (Empty List) | | |
| Ranking Preference | (Empty List) | | |
| questionnaire1 | 0 | dateTime | Sun Apr 25 14:17:07 GMT+01:00 2021 |
| | | question_1 | How likely are you to follow the advice given by this Intelligent Agent? |
| | | answer_1 | Very Likely |
| | | question_2 | How often would you like to receive advice? |
| | | answer_2 | Once Per Day |
| | | question_3 | What gender would you prefer the Intelligent Agent to be? |
| | | answer_3 | Neutral |
| | | question_4 | What method of communication would you prefer the Intelligent Agent to use? |
| | | answer_4 | Text |
| | | question_5 | Are you likely to follow advice given by this Intelligent Agent if a reason for the advice is given? |
| | | answer_5 | Yes |
| | | question_6 | Do you trust applications that have machine learning implemented? |
| | | answer_6 | Yes |
| questionnaire2 | 0 | dateTime | Sun May 02 12:54:00 GMT+01:00 2021 |
| | | question_1 | How likely would you to continue to follow the advice given by this IntelligentAgent? |
| | | answer_1 | Likely |
| | | question_2 | How often would you have liked to receive advice from the Intelligent Agent during the study? |
| | | answer_2 | Twice Per Day |
| | | question_3 | What gender would you have preferred the Intelligent Agent to be over the course of the study period? |
| | | answer_3 | Neutral |
| | | question_4 | What method of communication would you prefer the Intelligent Agent to have used during the study period? |
| | | answer_4 | Text |
| | | question_5 | Did you trust the advice given by the Intelligent Agent? |
| | | answer_5 | Yes |
| | | question_6 | Do you trust applications that have machine learning implemented? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| | | answer_6 | Yes |
| | | question_7 | Did you determine that the Intelligent Agent was not using machine learning? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| | | answer_7 | No |
| | | question_8 | How do you feel about the Intelligent Agent using traditional programming techniques instead of machine learning to provide advice? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| | | answer_8 | Comfortable |
| | | question_9 | How did you feel about the device monitoring you 24/7? |

| | | | |
|-----------------------------|---|-------------------------|--|
| | | answer_9 | Uncomfortable |
| | | question_10 | How much of the advice do you think you followed? |
| | | answer_10 | Most Of It |
| | | question_11 | Would you prefer to follow advice given by a human over advice given by the Intelligent Agent in this application? |
| | | answer_11 | No |
| intelligentAgentInformation | 0 | Date_Initialised | Sun Apr 25 14:16:42 GMT+01:00 2021 |
| | | End_Date | Sun May 02 00:00:00 GMT+01:00 2021 |
| | | Analysis | TP |
| | | Advice | WJ |
| | | Gender | XY |
| | | Interaction | HH |
| | | Output | SP |
| | | | |

PARTICIPANT USAGE DATA: PARTICIPANT 3

Appendix 6

| | | | |
|--------------------|--------------|---------------------|---|
| userData | 0 | age | 36 |
| | | gender | Female |
| Advice | 0 | dateTimeAdviceGiven | Tue May 04 23:59:59 GMT+01:00 2021 |
| | | adviceType | Screentime |
| | | dateTimeAdviceFor | Mon May 03 12:22:52 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 1 | dateTimeAdviceGiven | Mon May 03 23:59:59 GMT+01:00 2021 |
| | | adviceType | Screentime |
| | | dateTimeAdviceFor | Sun May 02 16:17:21 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 2 | dateTimeAdviceGiven | Sat May 01 23:59:59 GMT+01:00 2021 |
| | | adviceType | Screentime |
| | | dateTimeAdviceFor | Fri Apr 30 17:16:55 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 3 | dateTimeAdviceGiven | Wed Apr 28 23:59:59 GMT+01:00 2021 |
| | | adviceType | Screentime |
| | | dateTimeAdviceFor | Tue Apr 27 15:20:03 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 4 | dateTimeAdviceGiven | Mon Apr 26 13:00:00 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Mon Apr 26 12:37:04 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 5 | dateTimeAdviceGiven | null |
| | | adviceType | noAdvice |
| | | dateTimeAdviceFor | Sat May 01 15:46:51 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 6 | dateTimeAdviceGiven | null |
| | | adviceType | noAdvice |
| | | dateTimeAdviceFor | Wed Apr 28 12:27:56 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 7 | dateTimeAdviceGiven | null |
| | | adviceType | noAdvice |
| | | dateTimeAdviceFor | Thu Apr 29 15:55:52 GMT+01:00 2021 |
| | | adviceTaken | null |
| Ranking Preference | (Empty List) | | |
| questionnaire1 | 0 | dateTime | Sun Apr 25 15:21:52 GMT+01:00 2021 |
| | | question_1 | How likely are you to follow the advice given by this Intelligent Agent? |
| | | answer_1 | Likely |
| | | question_2 | How often would you like to receive advice? |
| | | answer_2 | Twice Per Day |
| | | question_3 | What gender would you prefer the Intelligent Agent to be? |
| | | answer_3 | Neutral |
| | | question_4 | What method of communication would you prefer the Intelligent Agent to use? |

| | |
|------------|--|
| answer_4 | Text |
| question_5 | Are you likely to follow advice given by this Intelligent Agent if a reason for the advice is given? |
| answer_5 | Yes |
| question_6 | Do you trust applications that have machine learning implemented? |
| answer_6 | Yes |

| | | | |
|----------------|---|-------------|---|
| questionnaire2 | 0 | dateTime | Mon May 03 12:24:55 GMT+01:00 2021 |
| | | question_1 | How likely would you to continue to follow the advice given by this IntelligentAgent? |
| | | answer_1 | Likely |
| | | question_2 | How often would you have liked to receive advice from the Intelligent Agent during the study? |
| | | answer_2 | Twice Per Day |
| | | question_3 | What gender would you have preferred the Intelligent Agent to be over the course of the study period? |
| | | answer_3 | Neutral |
| | | question_4 | What method of communication would you prefer the Intelligent Agent to have used during the study period? |
| | | answer_4 | Text |
| | | question_5 | Did you trust the advice given by the Intelligent Agent? |
| | | answer_5 | Yes |
| | | question_6 | Do you trust applications that have machine learning implemented? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| | | answer_6 | Yes |
| | | question_7 | Did you determine that the Intelligent Agent was not using machine learning? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| | | answer_7 | No |
| | | question_8 | How do you feel about the Intelligent Agent using traditional programming techniques instead of machine learning to provide advice? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| | | answer_8 | Comfortable |
| | | question_9 | How did you feel about the device monitoring you 24/7? |
| | | answer_9 | Comfortable |
| | | question_10 | How much of the advice do you think you followed? |
| | | answer_10 | Most Of It |
| | | question_11 | Would you prefer to follow advice given by a human over advice given by the Intelligent Agent in this application? |
| | | answer_11 | No |

| | | | |
|-----------------------------|---|------------------|------------------------------------|
| intelligentAgentInformation | 0 | Date_Initialised | Sun Apr 25 15:21:31 GMT+01:00 2021 |
| | | End_Date | Sun May 02 00:00:00 GMT+01:00 2021 |
| | | Analysis | TP |
| | | Advice | WJ |
| | | Gender | XY |
| | | Interaction | HH |
| | | Output | SP |

PARTICIPANT USAGE DATA: PARTICIPANT 4

Appendix 6

| | | | |
|--------------------|---|---------------------|---|
| userData | 0 | age | 21 |
| | | gender | Male |
| Advice | 0 | dateTimeAdviceGiven | Sun May 02 23:59:59 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Sat May 01 14:06:02 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 1 | dateTimeAdviceGiven | Sat May 01 23:59:59 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Fri Apr 30 13:58:52 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 2 | dateTimeAdviceGiven | Fri Apr 30 23:59:59 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Thu Apr 29 13:59:37 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 3 | dateTimeAdviceGiven | Thu Apr 29 23:59:59 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Wed Apr 28 13:54:54 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 4 | dateTimeAdviceGiven | Wed Apr 28 23:59:59 GMT+01:00 2021 |
| | | adviceType | Location |
| | | dateTimeAdviceFor | Tue Apr 27 13:55:10 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 5 | dateTimeAdviceGiven | Tue Apr 27 23:59:59 GMT+01:00 2021 |
| | | adviceType | Location |
| | | dateTimeAdviceFor | Mon Apr 26 14:01:48 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 6 | dateTimeAdviceGiven | Mon Apr 26 13:00:00 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Sun Apr 25 14:06:30 GMT+01:00 2021 |
| | | adviceTaken | null |
| Ranking Preference | 0 | dateTime | Sun Apr 25 19:37:37 GMT+01:00 2021 |
| | | steps | 0 |
| | | location | 1 |
| | | screenTime | 2 |
| | | socialness | 3 |
| | | mood | 4 |
| | | idealStepCount | 10000 |
| | | screenTimeLimit | 60 |
| questionnaire1 | 0 | dateTime | Sun May 02 00:58:29 GMT+01:00 2021 |
| | | question_1 | How likely would you to continue to follow the advice given by this IntelligentAgent? |
| | | answer_1 | Unlikely |
| | | question_2 | How often would you have liked to receive advice from the Intelligent Agent during the study? |
| | | answer_2 | Twice Per Day |

| | |
|-------------|---|
| question_3 | What gender would you have preferred the Intelligent Agent to be over the course of the study period? |
| answer_3 | Neutral |
| question_4 | What method of communication would you prefer the Intelligent Agent to have used during the study period? |
| answer_4 | Text |
| question_5 | Did you trust the advice given by the Intelligent Agent? |
| answer_5 | No |
| question_6 | Do you trust applications that have machine learning implemented? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| answer_6 | Yes |
| question_7 | Did you determine that the Intelligent Agent was not using machine learning? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| answer_7 | Yes |
| question_8 | How do you feel about the Intelligent Agent using traditional programming techniques instead of machine learning to provide advice? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| answer_8 | Comfortable |
| question_9 | How did you feel about the device monitoring you 24/7? |
| answer_9 | Uncomfortable |
| question_10 | How much of the advice do you think you followed? |
| answer_10 | Nearly None Of It |
| question_11 | Would you prefer to follow advice given by a human over advice given by the Intelligent Agent in this application? |
| answer_11 | Yes |

questionnaire2

| | | |
|---|------------|--|
| 0 | dateTime | Sat Apr 24 22:54:56 GMT+01:00 2021 |
| | question_1 | How likely are you to follow the advice given by this Intelligent Agent? |
| | answer_1 | Likely |
| | question_2 | How often would you like to receive advice? |
| | answer_2 | Twice Per Day |
| | question_3 | What gender would you prefer the Intelligent Agent to be? |
| | answer_3 | Neutral |
| | question_4 | What method of communication would you prefer the Intelligent Agent to use? |
| | answer_4 | Text |
| | question_5 | Are you likely to follow advice given by this Intelligent Agent if a reason for the advice is given? |
| | answer_5 | Yes |
| | question_6 | Do you trust applications that have machine learning implemented? |
| | answer_6 | Yes |

intelligentAgentInformation

| | | |
|---|------------------|------------------------------------|
| 0 | Date_Initialised | Sat Apr 24 22:54:24 GMT+01:00 2021 |
| | End_Date | Sat May 01 00:00:00 GMT+01:00 2021 |
| | Analysis | ML |
| | Advice | NJ |
| | Gender | XY |
| | Interaction | HH |

PARTICIPANT USAGE DATA: PARTICIPANT 5

Appendix 6

| | | | |
|--------------------|--------------|---------------------|---|
| userData | 0 | age | 20 |
| | | gender | Female |
| Advice | 0 | dateTimeAdviceGiven | Sun May 02 23:59:59 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Sat May 01 12:17:03 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 1 | dateTimeAdviceGiven | Sat May 01 23:59:59 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Fri Apr 30 12:12:07 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 2 | dateTimeAdviceGiven | Fri Apr 30 23:59:59 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Thu Apr 29 12:12:14 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 3 | dateTimeAdviceGiven | Thu Apr 29 23:59:59 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Wed Apr 28 12:12:11 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 4 | dateTimeAdviceGiven | Tue Apr 27 12:00:00 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Sun Apr 25 12:13:51 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 5 | dateTimeAdviceGiven | Tue Apr 27 12:00:00 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Mon Apr 26 12:12:08 GMT+01:00 2021 |
| | | adviceTaken | null |
| Ranking Preference | (Empty List) | | |
| questionnaire1 | 0 | dateTime | Sat May 01 16:29:27 GMT+01:00 2021 |
| | | question_1 | How likely would you to continue to follow the advice given by this IntelligentAgent? |
| | | answer_1 | Unlikely |
| | | question_2 | How often would you have liked to receive advice from the Intelligent Agent during the study? |
| | | answer_2 | Twice Per Day |
| | | question_3 | What gender would you have preferred the Intelligent Agent to be over the course of the study period? |
| | | answer_3 | Neutral |
| | | question_4 | What method of communication would you prefer the Intelligent Agent to have used during the study period? |
| | | answer_4 | Text |
| | | question_5 | Did you trust the advice given by the Intelligent Agent? |
| | | answer_5 | No |
| | | question_6 | Do you trust applications that have machine learning implemented? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| | | answer_6 | Yes |

| | | | |
|------------------------------------|---|-------------------------|---|
| | | question_7 | Did you determine that the Intelligent Agent was not using machine learning? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| | | answer_7 | Yes |
| | | question_8 | How do you feel about the Intelligent Agent using traditional programming techniques instead of machine learning to provide advice? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| | | answer_8 | Comfortable |
| | | question_9 | How did you feel about the device monitoring you 24/7? |
| | | answer_9 | Comfortable |
| | | question_10 | How much of the advice do you think you followed? |
| | | answer_10 | Nearly None Of It |
| | | question_11 | Would you prefer to follow advice given by a human over advice given by the Intelligent Agent in this application? |
| | | answer_11 | Yes |
| | | | |
| questionnaire2 | 0 | dateTime | Sat Apr 24 21:12:03 GMT+01:00 2021 |
| | | question_1 | How likely are you to follow the advice given by this Intelligent Agent? |
| | | answer_1 | Likely |
| | | question_2 | How often would you like to receive advice? |
| | | answer_2 | Twice Per Day |
| | | question_3 | What gender would you prefer the Intelligent Agent to be? |
| | | answer_3 | Neutral |
| | | question_4 | What method of communication would you prefer the Intelligent Agent to use? |
| | | answer_4 | Text |
| | | question_5 | Are you likely to follow advice given by this Intelligent Agent if a reason for the advice is given? |
| | | answer_5 | Yes |
| | | question_6 | Do you trust applications that have machine learning implemented? |
| | | answer_6 | Yes |
| | | | |
| intelligentAgentInformation | 0 | Date_Initialised | Sat Apr 24 21:11:53 GMT+01:00 2021 |
| | | End_Date | Sat May 01 00:00:00 GMT+01:00 2021 |
| | | Analysis | ML |
| | | Advice | WJ |
| | | Gender | XY |
| | | Interaction | HH |
| | | Output | SP |
| | | | |

PARTICIPANT USAGE DATA: PARTICIPANT 6

Appendix 6

| | | | |
|--------------------|--------------|---------------------|---|
| userData | 0 | age | 22 |
| | | gender | Female |
| Advice | 0 | dateTimeAdviceGiven | Tue May 04 12:00:00 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Fri Apr 30 14:00:09 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 1 | dateTimeAdviceGiven | Fri Apr 30 23:59:59 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Thu Apr 29 13:50:54 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 2 | dateTimeAdviceGiven | Thu Apr 29 23:59:59 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Wed Apr 28 13:50:29 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 3 | dateTimeAdviceGiven | Wed Apr 28 23:59:59 GMT+01:00 2021 |
| | | adviceType | Screentime |
| | | dateTimeAdviceFor | Tue Apr 27 13:50:29 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 4 | dateTimeAdviceGiven | Tue Apr 27 23:59:59 GMT+01:00 2021 |
| | | adviceType | Screentime |
| | | dateTimeAdviceFor | Mon Apr 26 13:50:29 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 5 | dateTimeAdviceGiven | Tue Apr 27 12:00:00 GMT+01:00 2021 |
| | | adviceType | Step |
| | | dateTimeAdviceFor | Sun Apr 25 13:50:55 GMT+01:00 2021 |
| | | adviceTaken | null |
| | 6 | dateTimeAdviceGiven | null |
| | | adviceType | noAdvice |
| | | dateTimeAdviceFor | Sat May 01 13:58:24 GMT+01:00 2021 |
| | | adviceTaken | null |
| Ranking Preference | (Empty List) | | |
| questionnaire1 | 0 | dateTime | Sat May 01 22:16:04 GMT+01:00 2021 |
| | | question_1 | How likely would you to continue to follow the advice given by this IntelligentAgent? |
| | | answer_1 | Unlikely |
| | | question_2 | How often would you have liked to receive advice from the Intelligent Agent during the study? |
| | | answer_2 | Twice Per Day |
| | | question_3 | What gender would you have preferred the Intelligent Agent to be over the course of the study period? |
| | | answer_3 | Neutral |
| | | question_4 | What method of communication would you prefer the Intelligent Agent to have used during the study period? |
| | | answer_4 | Text |
| | | question_5 | Did you trust the advice given by the Intelligent Agent? |
| | | answer_5 | Yes |

| | | | |
|-----------------------------|---|------------------|---|
| | | question_6 | Do you trust applications that have machine learning implemented? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| | | answer_6 | Yes |
| | | question_7 | Did you determine that the Intelligent Agent was not using machine learning? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| | | answer_7 | No |
| | | question_8 | How do you feel about the Intelligent Agent using traditional programming techniques instead of machine learning to provide advice? (Machine learning refers to algorithms that improve themselves overtime through experience and data acquisition.) |
| | | answer_8 | Comfortable |
| | | question_9 | How did you feel about the device monitoring you 24/7? |
| | | answer_9 | Comfortable |
| | | question_10 | How much of the advice do you think you followed? |
| | | answer_10 | Nearly None Of It |
| | | question_11 | Would you prefer to follow advice given by a human over advice given by the Intelligent Agent in this application? |
| | | answer_11 | No |
| questionnaire2 | 0 | dateTime | Sat Apr 24 22:50:23 GMT+01:00 2021 |
| | | question_1 | How likely are you to follow the advice given by this Intelligent Agent? |
| | | answer_1 | Unlikely |
| | | question_2 | How often would you like to receive advice? |
| | | answer_2 | Twice Per Day |
| | | question_3 | What gender would you prefer the Intelligent Agent to be? |
| | | answer_3 | Neutral |
| | | question_4 | What method of communication would you prefer the Intelligent Agent to use? |
| | | answer_4 | Text |
| | | question_5 | Are you likely to follow advice given by this Intelligent Agent if a reason for the advice is given? |
| | | answer_5 | No |
| | | question_6 | Do you trust applications that have machine learning implemented? |
| | | answer_6 | Yes |
| intelligentAgentInformation | 0 | Date_Initialised | Sat Apr 24 22:49:49 GMT+01:00 2021 |
| | | End_Date | Sat May 01 00:00:00 GMT+01:00 2021 |
| | | Analysis | ML |
| | | Advice | WJ |
| | | Gender | XY |
| | | Interaction | HH |
| | | Output | SP |
| | | | |

RESEARCH TRAINING CERTIFICATE

Appendix 7

Research and Innovation Services

This is to certify that

Conor Kemp

has successfully completed

Research Integrity Training (Student)

on

23 February 2021