|  |  |  |
| --- | --- | --- |
| Mr Josh Ryan  Undergraduate student  12 April 2022 |  | Faculty of Science  School of Computing Sciences  University of East Anglia  Norwich Research Park  Norwich NR4 7TJ  United Kingdom  Email: thirdyearproject7289@gmail.com  Tel: 07484623477  Web: www.uea.ac.uk |

**Online Brain Training Games**

**PARTICIPANT INFORMATION SHEET**

**(1) What is this study about?**

The purpose of the study is to determine if and how the use of games can help in the treating of cognitive-based illnesses such as Dementia. You have been invited to participate in this study because you are needed to help determine this hypothesis, you, the participant, will complete a variety of games, where eyetracking data and other metrics will be taken to evaluate how effective the games are at giving insight on cognitive ability. To this end I am then able to take these results and compare and contrast with other to get an indication for cognition. This Participant Information Sheet tells you about the research study. Knowing what is involved will help you decide if you want to take part in the study. Please read this sheet carefully and ask questions about anything that you don’t understand or want to know more about.

Participation in this research study is voluntary. By giving consent to take part in this study you are telling us that you:

* Understand what you have read.
* Agree to take part in the research study as outlined below.
* Agree to the use of your personal information as described.
* You have received a copy of this Participant Information Sheet to keep.

**(2) Who is running the study?**

The study is being carried out by the following student - Mr Josh Ryan - who is conducting this study as the basis for the degree of CMP at the University of East Anglia.

This will take place under the supervision of Dr Michal Mackiewicz ([m.mackiewicz@uea.ac.uk]).

**(3) What will the study involve for me?**

Participants will conduct their trial of the website in well lit conditions wherever and whenever they deem appropriate and is convinient for them.

You will be asked to complete a variety of cognitive games, eyetracking data and scores will be taken to evaluate how effective the games are at giving insight on cognitive ability. Participants should play the games for as long as they please, but, it is preferred that all games be run through three times per participant.

Before participants begin they should ensure a working webcam is connected to their machine, all pop ups are enabled on browser, and a stable internet connection is avalible.

The participant should start with setting up their randomly generated username and password on the main hub of the website before continuing on for purposes of keeping anonymity.

Any and all data or information required or taken in the study will be hosted in a secure database provided by the cloud-server hosting application Heroku. Only I will have ready access to this data, and any personal information (email etc) will not be distributed or discussed in the research but used solely to provide you with an account.

You will not have the opportunity to review information generated about you prior to publication.

1. **How much of my time will the study take?**

Participation should take anywhere from a couple minutes to ten minutes for setting up correctly on the website and then at least a further five minutes for every games calibration and play depending on how many times the participant decided to play.

**(5) Do I have to be in the study? Can I withdraw from the study once I have started?**

Being in this study is completely voluntary and you do not have to take part. Your decision whether to participate will not affect your current or future relationship with the researchers or anyone else at the University of East Anglia now or in the future.

If you decide to take part in the study, you can withdraw your consent at any point. You can do this by either contacting the lead researcher or through contacting the supervisors detailed. Please do not hesitate to get in touch if you have any queries at all about the study or concent withdrawal.

**(6) What are the consequences if I withdraw from the interview?**

You are free to stop the interview at any time. Unless you say that you want us to keep them, any noteswill be erased and the information you have provided will not be included in the study results. You may also refuse to answer any questions that you do not wish to answer during the interview. If you decide at a later time to withdraw from the study your information will be removed from our records and will not be included in any results, up to the point we have analysed and published the results andthis would include the submission of the dissertation for assessment purposes.

**(7) Are there any risks or costs associated with being in the study?**

Aside from giving up your time, we do not expect that there will be any risks or costs associated with taking part in this study.

**(8) Are there any benefits associated with being in the study?**

Entertainment for playing the games produced and helping research in a social issue that everyone is vulnerable to.

**(9) What will happen to information provided by me and data collected during the study?**  
Information required or taken in the study will be hosted in a secure password protected database provided by Heroku, a secure cloud-server hosting application.

Your personal data and information will only be used as outlined in this Participant Information Sheet, unless you consent otherwise. Data management will follow the Data Protection Act 2018 (DPA 2018) and UK General Data Protection Regulation (UK GDPR), and the University of East Anglia's [Research Data Management Policy](https://www.uea.ac.uk/documents/20142/130807/RINopen-researchresearch-data-management-policy.pdf/f1b1f3d6-4b8e-d2f7-2dfc-8512d6249bd8?t=1590588842221).

The information you provide will be stored securely and your identity will be kept strictly confidential, except as required by law. Study findings will be used solely for the purposes of my dissertation, but you will not be identified in this if you decide to participate in this study.

Study data may also be deposited with a repository to allow it to be made available for scholarly and educational purposes. If this is not the case, the data will be destroyed following the examination of the dissertation. The deposited data will not include your name or any identifiable information about you.

**(10) What if I would like further information about the study?**

When you have read this information, Mr Josh Ryan (thirdyearproject7289@gmail.com, 07484623477) will be available to discuss it with you further and answer any questions you may have.

**(11) Will I be told the results of the study?**

You are not able to receive feedback about the overall results.

**(12) What if I have a complaint or any concerns about the study?**

If there is a problem please let me know. You can contact me via the University of East Anglia at the following address:

Mr Josh Ryan

School of Computing Sciences

University of East Anglia

NORWICH NR4 7TJ

thirdyearproject7289@gmail.com

07484623477

If you would like to speak to someone else, you can contact my supervisor: Dr Michal Mackiewicz ([m.mackiewicz@uea.ac.uk]). If you are concerned about the way this study is being conducted or you wish to make a complaint to someone independent from the study, please contact the Head of School of Computing Sciences [*Tony Bagnall - Anthony.Bagnall@uea.ac.uk]*.

**(13) How do I know that this study has been approved to take place?**

To protect your safety, rights, wellbeing and dignity, all research in the University of East Anglia is reviewed by a Research Ethics Body. This research was approved by the SCI S-REC (Faculty of Science Research Ethics Subcommittee).

**(14) What is the general data protection information I need to be informed about?**

According to data protection legislation, we are required to inform you that the legal basis for processing your data as listed in Article 6(1) of the UK GDPR is because this allows us to process personal data when it is necessary to perform our public tasks as a University.

In addition to the specific information provided above aboutwhy your personal data is required and how it will be used, there is also some general information which needs to be provided for you:

* The data controller is the University of East Anglia.
* For further information, you can contact the University’s Data Protection Officer at [dataprotection@uea.ac.uk](mailto:dataprotection@uea.ac.uk)
* You can also find out more about your data protection rights at the [Information Commissioner's Office (ICO)](https://ico.org.uk/for-organisations/guide-to-the-general-data-protection-regulation-gdpr/individual-rights/).
* If you are unhappy with how your personal data has been used, please contact the University’s Data Protection Officer at [dataprotection@uea.ac.uk](mailto:dataprotection@uea.ac.uk) in the first instance.

**(15) OK, I want to take part – what do I do next?**

You need to fill in one copy of the consent form and sign your name, once completed send a digital copy to the lead researcher.Please keep the letter, information sheet and the second copy of the consent form for your information.

**(16) Further information**

This information was last updated on 12 April 2022.

If there are changes to the information provided, you will be notified by email and any previous data or concent will be destroyed, if the participant wishes to still participate after ammendments then they can redo their concent form.

# This information sheet is for you to keep

**PARTICIPANT CONSENT FORM (First Copy to Researcher)**

I, ................................................................................... , **am** willing to participate in this research study.

In giving my consent I state that:

* I understand the purpose of the study, what I will be asked to do, and any risks/benefits involved.
* I have read the Participant Information Sheet, which I may keep, for my records, and have been able to discuss my involvement in the study with the researchers if I wished to do so.
* The researchers have answered any questions that I had about the study and I am happy with the answers.
* I understand that being in this study is completely voluntary and I do not have to take part. My decision whether to be in the study will not affect my relationship with the researchers or anyone else at the University of East Anglia now or in the future.
* I understand that I may stop the interview at any time if I do not wish to continue, and that unless I indicate otherwise any recordings will then be erased and the information provided will not be included in the study results. I also understand that I may refuse to answer any questions I don’t wish to answer.
* I understand that the results of this study will be used for a dissertation assessment but that it will not contain my name or any identifiable information about me.
* I understand that personal information about me that is collected over the course of this project will be stored securely and will only be used for purposes that I have agreed to. I understand that information about me will only be told to others with my permission, except as required by law.

I consent to:

🞏 🞏

🞏 🞏The data collected in this study may be deposited with a repository to allow it to be made available for scholarly and educational purposes, but the data will not contain my name or any identifiable information about me.

I consent to: Deposit of data in a repository YES 🞏 NO 🞏

🞏 🞏

I consent to: Informal Interview after participation YES 🞏 NO 🞏

🞏 🞏

🞏 🞏

🞏 🞏

🞏

🞏

...................................................................

**Signature**

...................................................................

**PRINT name**

...................................................................

**Date**

**PARTICIPANT CONSENT FORM (Second Copy to Participant)**

I, ................................................................................... , **am** willing to participate in this research study.

In giving my consent I state that:

* I understand the purpose of the study, what I will be asked to do, and any risks/benefits involved.
* I have read the Participant Information Sheet, which I may keep, for my records, and have been able to discuss my involvement in the study with the researchers if I wished to do so.
* The researchers have answered any questions that I had about the study and I am happy with the answers.
* I understand that being in this study is completely voluntary and I do not have to take part. My decision whether to be in the study will not affect my relationship with the researchers or anyone else at the University of East Anglia now or in the future.
* I understand that I may stop the interview at any time if I do not wish to continue, and that unless I indicate otherwise any recordings will then be erased and the information provided will not be included in the study results. I also understand that I may refuse to answer any questions I don’t wish to answer.
* I understand that the results of this study will be used for a dissertation assessment but that it will not contain my name or any identifiable information about me.
* I understand that personal information about me that is collected over the course of this project will be stored securely and will only be used for purposes that I have agreed to. I understand that information about me will only be told to others with my permission, except as required by law.

I consent to:

🞏 🞏

🞏 🞏The data collected in this study may be deposited with a repository to allow it to be made available for scholarly and educational purposes, but the data will not contain my name or any identifiable information about me.

I consent to: Deposit of data in a repository YES 🞏 NO 🞏

🞏 🞏

I consent to: Informal Interview after participation YES 🞏 NO 🞏

🞏 🞏

🞏 🞏

🞏 🞏

🞏

🞏

...................................................................

**Signature**

...................................................................

**PRINT name**

...................................................................

**Date**