

SCSS Research Project Proposal - Conor Thorne

SECTION 1 – Project Description

1. Title of study

Developing an Educational Culinary Application - Final Year Project

2. Dates and duration of study

The project submission date is the 23rd of April. Evaluation of Prototypes of the application are planned to take from the 1st March until the 14th of March

3. Purpose of the project including academic rationale.

The purpose of the project is to implement Human Factors and HCI research to produce a mobile application that provides users a method to cook at home. The project is my Final Year Project for my Computer Science Degree.

4. Describe how participants will be recruited, how many you seek to recruit (and statistical justification if relevant), the type of participants you wish to recruit, and the inclusion and exclusion criteria.

I am seeking to recruit participants over the age of 18 who are interested in cooking at home or who would like to try. The participants need not have any prior technical knowledge to use the application. Due to Covid I will not be able to monitor the evaluations in person and I will ask participants to complete the tasks over a zoom call.

5. Procedures of the study.

Participants will be asked to complete a number of simple tasks using the application prototype, while completing these tasks we encourage participants to think aloud and to describe what they are doing and why. After completion of the assigned tasks we will conduct an interview and questionnaire to evaluate participants' user experience. The questionnaires are standardized and consistent with simple questions. This pattern may occur for multiple evaluations, each time with a different/higher fidelity prototype.

6. Debriefing arrangements following the study.

Participants will be emailed the study to read.

7. Intended Questionnaire

I intend to use the standardized SUS (System Usability Scale) questionnaire (enclosed below)

| | Strongly disagree | | | | Strongly agree |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|
| I think that I would like to use this system frequently | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| | 1 | 2 | 3 | 4 | 5 |
| I found the system unnecessarily complex | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| | 1 | 2 | 3 | 4 | 5 |
| I thought the system was easy to use | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| | 1 | 2 | 3 | 4 | 5 |
| I think I would need the support of a technical person to be able to use this system | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| | 1 | 2 | 3 | 4 | 5 |
| I found the various functions in this system were well integrated | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| | 1 | 2 | 3 | 4 | 5 |
| I thought there was too much inconsistency in this system | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| | 1 | 2 | 3 | 4 | 5 |
| I would imagine that most people would learn to use this system very quickly | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| | 1 | 2 | 3 | 4 | 5 |
| I found the system very cumbersome to use | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| | 1 | 2 | 3 | 4 | 5 |
| I felt very confident using the system | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| | 1 | 2 | 3 | 4 | 5 |
| I needed to learn a lot of things before I could get going with this system | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| | 1 | 2 | 3 | 4 | 5 |

The following will also be included;

Each question is optional. Feel free to omit a response to any question; however the researcher would be grateful if all questions are responded to. If at any time you wish to withdraw from the study, please indicate this to the evaluator and the study will be cancelled and withdrawn from participation and your answers and testing will not be used or submitted.

SECTION 2 – Ethical Concerns

Describe and discuss all ethical issues relating to the study (including any relating to participant autonomy and personal data). As part of this you should:

1. Potential benefits and potential harms to participants, and how they are addressed.

There are no potential benefits or potential harms that I can identify for participants. It is a simple evaluation of the application prototype and should not result in any lasting effect on the participants.

2. Conflicts of interest and how they will be addressed.

It is unlikely that any conflicts of interests will occur. If the participant has any association with any entity which would impact the bias of their participation they are implored to withdraw themselves.

SECTION 3 – CONFIDENTIALITY AND DATA PROTECTION

3.1 Does this study involve collecting, using, accessing or sharing personal data¹?

Yes

If **NO**, please go to section 4.

If **YES**, please list² all categories of personal data.

Please see checklist on secure storage available [here](#).

| Type of Data | Justification: Why do you need the data? | Data Format | Technical and Organisational Controls | Identifiable coded, or anonymised |
|---------------|--|-------------------|---|-----------------------------------|
| Email Address | Contact to organise interviews Contact to email finished report | Excel spreadsheet | on local machine in a folder which is encrypted | Identifiable |
| Consent Form | Evidence of consent from an ethical perspective | Word Doc | on local machine in a folder which is encrypted | Identifiable |

¹ Personal data is information which can identify a person. In particular: a name, address, email, telephone number, an identification number, location data, an online identifier, an IP address, a code key linking back to identifiable data etc. Please note that pseudonymised data is personal data under GDPR. Pseudonymised data means data which cannot be attributed to an individual without the use of additional information which is kept separately. (i.e. a key) . It is sometimes referred to as ‘coded data’. Please note that in order to be considered personal data in our hands, Trinity must hold the key.

² If using Personal data. Records must be kept pursuant to Article 30, GDPR; <https://gdpr-info.eu/art-30-gdpr/>

3.2 Does the study involve collecting, using, accessing or sharing sensitive data³?

No

If **NO**, please go to question 3. 3.

If **YES**, please list all categories of the sensitive data collected.

Please see checklist on secure storage available [here](#).

| Type of Data | Justification: Why you need the data? | Data Format | Technical and Organisational Controls | Identifiable coded, or anonymised |
|-----------------------------|--|----------------|---|---|
| EXAMPLE: Interview sheet | Method of research | Hard copy form | Stored in encrypted format on local machine which is also encrypted | Pseudonymised (code given to each individual). PI has the key |

3.3 Who determines how and why the personal and/or sensitive data is used?

(Data Controller⁴ or Joint Data Controllers)

Provide Details:

Conor Thorne

3.4 Will the personal and/or sensitive personal data be shared with any third parties⁵?

No

This list should include all Data Processing Agreements with external laboratories, Cloud-based Solutions Agreements etc., and any and Data Sharing Agreements with Collaborators.

³ Sensitive personal data means personal data, which poses a higher risk to the individual. It includes personal data revealing racial and ethnic origin, political opinions, religious or ideological convictions, trade union membership, criminal convictions and offences, genetic, biometric (photos, videos, audio etc.) data concerning physical or mental well-being , information relating to education, professional training employment and career history, questionnaires, Information relating to the family of the individual and the individual's lifestyle and social circumstances.

⁴ Employees and students of TCD are not data controllers. TCD is the data controller for the institution. However, if other institutes jointly decide how and why the data will be used, they should also be noted as controllers here.

⁵ Third parties could be collaborators (institutes/industry) or service providers (transcribers, cloud storage etc.)

Please contact researchDPO@tcd.ie if you need assistance with agreements and/or for any transfer outside EEA (including England, Wales, Scotland or Northern Ireland).

Provide Details:

3.5 How long will you retain the personal data?

Please see good [research practice guide](#) for guidance on retention of research data. Your school should be able to advice on best practice.

Provide Details: Until the final project has been graded, approximately no longer than September 2021

3.6 Will the personal data be fully anonymised or deleted after it is no longer necessary?

The data will be fully deleted when no longer necessary

3.7 How will you inform participants of their rights under GDPR⁶:

Before evaluation, I will email them the GDPR and a summarised version specific to them

Please note that the DPO's contact details must be included on any information leaflet or privacy notice if you are using personal data for your research.

Email: dataprotection@tcd.ie

Post: Data Protection Officer, Secretary's Office, Trinity College Dublin, Dublin 2, Ireland

⁶

Under GDPR, these include:

- right of access;
- right to rectification;
- right to erasure;
- right to object to processing based on legitimate or public interest;
- right to data portability;
- right to object to profiling or making decisions about individuals by automated means?