

MAPPING DATA TO THE RESOURCE DESCRIPTION FRAMEWORK

RESEARCH STUDY INFORMATION SHEET

CONTACT DETAILS

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OUR STUDY

We are seeking participants for a study investigating techniques for mapping data, e.g. JSON data, into RDF. The study is concerned with these techniques from the user standpoint, rather than being concerned with technical issues such as their computational efficiency. Specifically, the study is concerned with the cognitive difficulties posed by the techniques. The object of the study is to make recommendations as to how the techniques can be made easier for the user.

Each participant will be required to take part in one study session, which will last approximately one hour. In recompense for participants' time, they will be given a £10 Amazon voucher (or equivalent in another currency, if appropriate).

GENERAL INFORMATION ABOUT THE RESEARCH STUDY AND COLLECTED RESEARCH DATA

The problem of mapping structured data to RDF has prompted a number of solutions. The object of this study is investigate the use two such approaches. One approach, YARRRML provides a human-readable format for

writing rules to generate RDF. In particular, it enables the creation of RML (RDF Mapping Language) rules. The other approach, SPARQL Anything, is an extension of the SPARQL query language.

WHAT WILL I BE ASKED TO DO IF I AGREE TO TAKE PART?

Participants will be asked to undertake a number of data mapping activities using either YARRRML or SPARQL Anything. They will be free to choose which of the two techniques they wish to use; although we may encourage the use of one technique or the other in order to balance the two participant groups. Participants will be provided with information about their choice of data mapping technique in a tutorial document. This will be provided prior to the study session so that participants can read it before the session. They will be free to refer to the tutorial at any time during the session.

During the session, Microsoft Teams will be used so that participants can share their screen with the experimenter. Participants will also be asked to 'think aloud', so as to provide the experimenter with an understanding of their thought processes. They will also be able to make notes, using Google Docs, if they feel this to be useful. The experimenter will record participants' screen activity, their comments and any notes, for analysis. After the session, the contents of the Google document will be copied onto the experimenter's computer, and the Google document itself will be deleted.

HOW WILL THE DATA I PROVIDE BE USED?

All data, e.g. the session recordings, will be stored on a password-protected computer and will be deleted on or before 31st March 2027. Data will be identified by the use of a numeric identifier, rather than any personal information, e.g. email address, which could be used to link the data to the participant.

It is intended that the results of the experiment will be published in the peer-reviewed literature. This will be in a completely anonymized form.

This project has been reviewed by, and received a favourable opinion from, The Open University Human Research Ethics Committee, reference HREC/4195.

YOUR RIGHT TO WITHDRAW FROM THE STUDY

Participants will have the right to withdraw from the experiment at any time during the session. Moreover, they will have the right to ask for their data to be withdrawn from the analysis at any time until 30th April 2022.

HOW DO I AGREE TO TAKE PART?

To take part in the study, please contact Paul Warren, paul.warren@open.ac.uk

THANK YOU

Thank you for taking the time to read this document. We hope you will feel able to take part in our study.

DATA PROTECTION

The Open University is the Data Controller for the personal data that you provide.

The lawful reason for processing your data will be that conducting academic research is part of The Open University's public task. (The consent we request from you relates to ethical considerations)

You have a number of rights as a data subject:

- To request a copy of the personal data we have about you
- To rectify any personal data which is inaccurate or incomplete
- To restrict the processing of your data
- To receive a copy of your data in an easily transferrable format (if relevant)
- To erase your data
- To object to us processing your data

If you are concerned about the way we have processed your personal information, you can contact the Information Commissioner's Office (ICO). Please visit the ICO's website for further details.