

# Self-Reflection Report

Group: H

Tolga Arslan - 20302472

My main contribution to this project was in ontology design. We worked with four different datasets in total, and the design I made had to represent our data and other approaches successfully. For this, I worked with Sophie to make sure that our competency questions were successfully represented in the ontology design I made. For Bhushan to perform the uplifting, I gave him some feedback on the ontology design from time to time. During my ontology design, there were some approaches that I had to implement as requested in this project (providing cardinalities, creating symmetric, inverse, transitive properties, reusing, etc.) In the final stage, I had to present a design that was approved and free of errors to the team. For all of this, I had to focus carefully on our datasets and approaches and catch the right points. All versions of my ontology designs are available on Github for all members to access.

I focused on parts in this area. I think that I have a good grasp of the relationships between different points and the spiral of relationships in the general picture and that I have successfully applied them in ontology design. My weakness is that although I had an idea about the interface design and uplifting, I could not be directly involved in the processes.

Bhushan Borole - 20301672

My main contribution to this project was creating mapping files to uplift data from the datasets. To accomplish this I had to do some preprocessing on the dataset. I was in touch with Tolga regarding the ontology, because based on the ontology I had to perform uplifting. We have used 4 separate datasets, so I have created 4 separate mapping files. To make the uplifting process easier I have created bash scripts that will create the output turtle files. All the mapping files and output files are there on the Github page for everyone to see.

My weak points in this project were creating ontologies and setting up a front-end and back-end project. The output of my files were used by Madeleine's app to run the queries.

Madeleine Comtois - 17301720

My main contribution to this project was in query design and user interface development. I helped Sophie in converting our competency questions into SPARQL queries. We tested these queries on a manually-made, small, data set to make sure that they worked and queried our data correctly. I also wrote the code for the query interface and connected the interface to a GraphDB instance hosted locally on my machine. This process also involved being able to process the data consistently as the ontology evolved over time. The code is on GitHub so all members have access to it, and there is a README file with instructions on how to host the code locally from any personal machine.

Because my focus was on these particular tasks, my weaknesses in contribution include developing the ontology and uplifting the data. I used these results to process the queries, but I was not part of the decision making for developing the ontology directly.

## Sophie Crowley - 17330036

My original role focused on data selection and competency question creation. I researched online for different types of datasets that could be connected and would be suitable to be uplifted. I then presented multiple different ideas/options to the group, from which we chose the Netflix/Disney+ idea and datasets. Following this, I created ten competency questions that reflected what we wanted from the uplifted data. These questions all used at least two of our datasets. I then worked with Madeleine to create draft queries from these competency questions. The two of us then proceeded to make sure these queries work and are compatible with the uplifted data. I also consulted with Tolga often about the ontology and made sure it reflected the competency questions as well as our general ideas for the uplifted dataset. I also worked a significant amount on the uplift. Once Bhushan completed the original draft of the uplift, I added extra columns to it and did a lot of debugging to make it work with the queries we had created.

I think my main strength was that I was involved heavily in most aspects of the project. I have a good understanding of the competency questions, the queries, the uplift, and the ontology. As such, I was able to help integrate the different areas together. One area in which I do not know as much is the user interface. I have a general idea of what is happening but was not directly involved. Another weakness may be that I did not make sure all of the naming conventions etc. were the same across aspects from the beginning, as this would have saved time in terms of integration.