Group 26: SPARQL and RDF Mining

10/02/2017 **Anirudh Pillai**, Aksel Cakmak and Xiaofeng Fu

Overview

We have continued to develop the GUI. We have added breadcrumbs, pagination and data visualisation. We have show the client our current GUI and have received feedback from them.

Meetings Summary

Meeting 34 **Team** Meeting (30/01/2017)
We had decided to use the REST API in our React code and first replicate the browsing functionality from Stardog. So in the meeting we looked at our current GUI and tried to refine it to make it work exactly like the Stardog interface. We also decided to add the breadcrumbs in our views to help the user navigate the GUI.

- Implement breadcrumbs in the views (Anirudh)

Meeting 35 **Team** Meeting (01/02/2017)
We met to discuss which new features we would be working on this week. We decided on starting the data visualisation and pagination.

- Implement Pagination (Aksel)
- Implement Data Visualisation (Anirudh)

Meeting 36 **Client** Meeting (02/02/2017)
We updated the client about the current state of the GUI and informed them that we will be working on the pagination and data visualisation this week.

Meeting 37 **Team** Meeting (06/02/2017)
We checked the progress on both pagination and data visualisation. We were looking at frameworks to implement both of them. We were having some problems with data visualisation frameworks as it was difficult to get them to work with React. We looked at frameworks like Sigma.js, D3.js and cytoscape.js. We had completed adding breadcrumbs to the GUI.

Meeting 38 **Team** Meeting (08/02/2017)
We managed to complete the data visualisation and pagination. We ended up using D3.js to create the visualisation. We looked at WebVOWL, a tool which visualises ontologies, to get inspiration for our visualisation. We also decided to use a sidebar in our instance view, which will show more information from our data visualisation.

Meeting 39 **Client** Meeting (09/02/2017)
We showed the client our current GUI over a Skype call. We got valuable feedback about how to update the data visualisation and the instance view. They liked the progress we made. They gave us ideas like grouping nodes and adding the ability to filter properties.

Tasks Completed

- Implemented Breadcrumbs for navigation
- Implemented Pagination
- Implemented first version of Data Visualisation
- Implemented a sidebar to add extra information to the data visualisation

Plan for next two weeks

We plan on using the feedback we got from the client to improve our GUI. We will try to design and add some way to filter the data in the instance view like the ability to view just some properties at a time, for example. We will also modify the data visualisation to make it more detailed.

Individual Sections

Anirudh Pillai

I implemented the breadcrumbs to help in navigating the GUI and I also linked all our separate views together. I then also researched numerous libraries and techniques to get the data visualisation working with React. I finally managed to complete the data visualisation by using the force layout available in D3.js. I also managed to create a WebVOWL like sidebar to show extra information in our visualisation. I had to look at the code for WebVOWL to figure out how to implement this.

Aksel Cakmak

I tested the app. Since the actual app could have thousands/millions of instances/classes, I also implemented pagination.

Xiaofeng Fu

I am stuck in the deadline of Entrepreneurship essay and I have not contribution in codes in this week. Yet I have learnt react and I will put all focus on the project in the reading week.