# Group 26: SPARQL and RDF Mining

08/10/2016  **Anirudh Pillai**, Aksel Cakmak and Xiaofeng Fu

## Overview

We have got to know each other and found out our skillsets. We've also had a Skype meeting with the client and found out the project requirements. We have also assigned team roles and organised our communication and workflow.

## Meetings Summary

Meeting 1 **Team** Meeting (06/10/2016)
Met each other and set up tools for communication and coordinating workflow. We created a Slack team to manage all team communications and put up some resources to learn about RDF mining and SPARQL. We created a Trello board to keep track of tasks to accomplish. We also create a shared Google Drive folder to handle all our files and reports. We emailed to client to set up a meeting to discuss the project specifications.

Meeting 2 **Client** Meeting (07/10/2016)
The client set up a Skype for Business call with us to give us an overview of the project. We spoke to Daniel Ewert and Steffen Stadtmüller. We found out the initial requirements and the client also added us to a Gitlab repo.

Meeting 3 **Team** Meeting (07/10/2016)
We set up another team meeting after the client meeting to discuss things to be completed. We decided to follow the Kanban methodology to organise our workflow and also set up the Trello board to reflect it. We also decided to use Slate as our documentation tool.
We assigned team roles as following:
Deputy Team Leader - Aksel
Client Liaison - Anirudh
Technical Lead - Anirudh
Chief Researcher - Aksel
Chief Editor - Allen

## Tasks Completed

Set up Slack for communication, Trello for project management, Google Drive for documents and reports. We have read about the technologies involved. Established communication with the client and got access to the codebase. We believe we have started well and that the project is on track to be completed on time.

# Project Requirements

Our client, Bosch, works in "Industry 4.0" and each of the devices they work on is represented in a dynamic, graph based database in RDF format. However, rdf triples and the related query language SPARQL are not easily accessible for regular developers.

- They want us to build a web based GUI which will communicate actions and manipulations to an underlying REST API which they have built for us. This API sends SPARQL queries to their RDF database. What the database sends back is converted to JSON.
- We have to visualise their graph based database, with attributes and relationships, visually so that it becomes easier for developers to understand the database and deduce patterns and relationships.

# Plan for next two weeks

We have set up another meeting with the client at 2pm on Friday 14/10/16. We have been given access to a Gitlab repo with the REST API. The repo also has resources and wikis about the API and RDF which we will go through. We will also research and learn about tools and frameworks to use for the project.

# Individual Sections

### Anirudh Pillai

I set up tools for team communication and coordinating workflow (Trello, Slack and Google Drive). I also found out about the Kanban and Scrum methodology and decided to use them in our project workflow. I also emailed the client and set up a meeting. I've researched about SPARQL and RDF mining and shared resources with the team. I plan to research about the tools and frameworks the team can use to build the product to best match the client's requirements.

### Aksel Cakmak

I recorded and put down into notes everything that has been said during the meeting. More specifically, we now know exactly what the project is, what problem our clients have, and the motivation behind the project. We also know what technologies they use / want us to use. We now have a more specific idea of how our project will help our clients, and how it will be integrated into their work.

### Xiaofeng Fu

In the first week of the system engineering project, I have meet with the client on Friday afternoon with my teammate and we basically know what we need to do in the project and what we have to learn for this project. Moreover, I have started to design the team project website frontend which is written by HTML. In next week, I will focus on learning about RDF and database.