**ATOS 4 group (Social media):**

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**Overview:**

As part of the SCRUM method which our client requested us to follow,the main aim of the first 2-weeks sprint was to identify different available APIs of various social media platforms and to download a small amount of tweets to serve as test data later on in the project. We made some research upon these and found information that will be of use in the project. Also, all the API’s below support HTTP ReST Protocol so any language can be used to make and retrieve requests. There have not been any issues until now because only preparation work has been carried out. None of us have found the amount of work overwhelming and we are happy with the achievements in these two weeks.

**Summary of meetings held:**

After the first initial meeting with the client, we had the second one on the October 21,2014. This meeting was to ensure proper setup of softwares on our laptops which would enable smooth future communications with the client. The most recent meeting with our client was on October 24,2014. In this meeting we discussed progress from the past two weeks and showcased collected information. The client was impressed with team’s efforts and quality of test data. An important task of identifying the sentiment presentation scale was finalised to be a choice from red,amber,green to represent bad,indifferent,good tweets respectively during the meeting. Throughout the lifetime of this project until now, the team communicated on social media sites to discuss problems and track progress. We also met up weekly after lectures to help each other on specific topics or problems.

**List of tasks completed and estimations:**

We have successfully completed the tasks that were decided to be done by now. These include identification of APIs for social media platforms Facebook, Twitter, Youtube and Google+ and finding test data for twitter sentiment analysis. We are making fast progress because two out of six requirements presented to us by the client have been fulfilled. We hereby attach a link to the file with main information we gathered these weeks (which is also the file we presented to our client in the meeting).

https://docs.google.com/document/d/1T6FIYPgN33-BIN-AMDHIO6HO9QuKtl2WCNHAW9qVG8Y/edit

**Plan for next two weeks:**

After the client meeting on October 24,2014 the team has been allocated with two new tasks as part of Sprint 2:

* Manually go through test data tweets and flag them as green, amber or red.
* Create wireframes for the main screen for Social Media Sentiment Analysis.

**Individual Paragraphs:**

Andreas:

Being the group leader, I maintained contact with the client for any updates during this period. I also setup a social media (Facebook) group for the team to communicate and brainstorm easily and efficiently. I took the initiative of dividing the work among the group members to ensure work ratio equality and team unity. I looked up the Facebook and Twitter APIs to investigate their usefulness. As Alvee and myself were working on the same topic of finding and investigating APIs for various social media platforms, we were searching for an appropriate programming language to be used. In the middle of this analysis we realised that requesting via http would allow the use of any programming language.

Alvee:

I researched the APIs for Flickr, Instagram, Youtube and Google+. The main purpose was to see the different ways we can request data from these APIs, the different formats for the response received from these sites, the authentication technique used and the libraries that these sites have made available. I was also looking for additional information inside the response such as coordinate of the resource and any other other field that might assist us. We noticed that almost all the API have a common denominator, that is they all allowed ReST request via http and allowed a JSON response. They all have their libraries available in JavaScript and PHP.

Chaitanya:

I covered the part of obtaining test data for twitter sentiment analysis. To access the Twitter API, an open source python library Tweepy was used. An application on the Twitter Developer website was created to generate the ckey, csecret, atoken and asecret required to achieve Application-only Authentication.

The test data includes about 500 tweets about UK rail operators which include @VirginTrains, @LondonMidland,@GNRailUK, @greateranglia, @c2c\_Rail, @EMTrains, @chilternrailway, @FGW, @SW\_Trains, @TLRailUK, @SouthernRailUK, @Se\_Railway.