**Meeting Minutes 3 – Group # 3**

**Project: *SNA4SlackASU***

SER 517: Software Factory I

3rd November 2017

**Group # 3**

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| **Name** | **ASURITE ID** |
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**Attendees**

Co-sponsor – Prof. Fabio Calefato

Team members – Aman Srivastava, Nikhil Tibrewal, Sanchit Narang, Shuchir Inamdar, Ishan Dikshit

**Meeting Duration**

Meeting start time: 10:30 AM MST Nov. 3, 2017

Meeting end time : 11:10 AM MST Nov. 3, 2017

**Topics Covered**

1. Requirements and deliverables for 3rd iteration.
2. Preparation for 4th meeting with the sponsor.
3. Team progress since last iteration.
4. Usage of either Gephi(Java framework) or NetworkX(Python Framework).
5. Bypassing bot detection while acquiring data.
6. Cassandra cluster, front end and web services to be deployed on the gcloud.
7. Cloud structure prototype.
8. Sample front end built using wireframe.

**Resources and important links**

1. Social Network Analysis concepts

<http://www.di.uniba.it/~reti/collab/SNA.pdf>

1. Waffle: Kanban board for Issue tracking with Github and Slack integration

<https://waffle.io/aman-srivastava/SNA4Slack>

1. Github repository

<https://github.com/aman-srivastava/SNA4Slack/>

1. Slack conversations data source

<https://slackarchive.io/>

1. Data storage

Cassandra: <http://cassandra.apache.org/>

1. QUnit: Testing framework for JavaScript

<https://qunitjs.com>

1. PyUnit: Python Unit Testing Framework

<http://pyunit.sourceforge.net>

1. Wireframe

<https://en.wikipedia.org/wiki/Wireframe>

**Next Steps/Action items for 3rd iteration**

1. Setting up the development environment.
2. Apply improvements of the cloud database platform.
3. Integrate the crawler with cloud, save and use the data in graph database form.
4. Continue studying Social Network Analysis concepts from the provided powerpoint presentation and online resources.
5. Enhance the initial wireframe fitting in Social Network Analysis metrics.

**Requirements and progress discussed**

1. Overview of the architectural design of the project.
2. Crawler acquires data without being detected as a bot using chrome drivers and selenium python library. Using Python version 2.7.
3. Usage of apache-spark cluster computing framework in case the acquired data size crosses a couple of hundreds of GBs.
4. Team is free to pick Gephi or NetworkX as long as it works. Can take a decision after creating a smallest prototype and see whose integration is successful and easier.
5. Web services built on cassandra cluster, and successfully made rest api call. Presented it to the sponsor through localhost connecting to the google cloud. I simple user metric was shown and the pos presented the json data in hierarchical structure.
6. Presented the front end design created using wireframe which the sponsor identified as good and professional. Will continue building upon this base to have the final visualizations.

**Next meeting**

Friday, 24th November 2017 (3-week cycle)