Software Requirement Analysis



**COMS 3002**

Group 9

Tracking Interconnected Facebook Links: Using Graph Database Neo4j

28-August-2017

# Introduction

## Purpose

Social media plays a vital role in everyday people lives. There is enormous information about individuals and how they relate to one another. This information is useful to individuals, advertisers, politicians and many other organisations . The purpose of our software is to provide means to get links between individuals in social media. Our first focus will be analysing Facebook links using Neo4j database via the website.

## Scope

* Create a database using Neo4j to store our social media data (Clifford).
* Find out about the legal implications of using Facebook data (Lindiwe).
* Register with Facebook to enable them to give us access to their data (Lindiwe).
* Create a beautiful easy to use web interface (Thomas/Lindiwe).
* Testing of the software (Clifford/Thomas/Lindiwe).

## Definitions

SDLC: Software Development Life Cycle.

## Overview

For this program we will be using agile SDLC.

The idea is to get a user to log in to our web site with their Facebook credentials and after doing the necessary legal verifications, take the data from their Facebook account to our database and do some data analysis of the various links they have on Facebook and then display this in a friendly manner.

# Overall description

## Product Perspective

Since this is the first software we are producing, there no other programs to interface with. With this program you will be able to understand your interaction in Facebook as an individual.

## Product functions

* This program will be designed in Client-Server model.
* The front end will be through the web and the back end will be done by Neo4j.
* The program is expected to have a response time of no more 15 seconds 90% of the time.
* The program is expected to do at least three different data analysis.

## User characteristics

* The user will have to be willing to share their Facebook data with our program.
* The program should be able to handle at least five (5) users without affecting the user experience.

## General Constraint

* Obtaining permission from Facebook to use their data.

## Assumptions and dependencies

* Facebook will grant us access to the data.
* There will be a server where we can run the program.

# Detail requirements

## External Interface Requirements

### User interfaces (Thomas)

### Hardware interfaces (Clifford)

### Software Interfaces (Clifford)

## Function requirements

### Back-end requirement (Clifford)

### Front-end requirement (Thomas)

## Performance Requirements (Lindiwe)

## Design constraints (Lindiwe)

## Attributes (Lindiwe)

## Other Requirements