Wits University

School of Electrical and Information Engineering

ELEN7046 - Software Technologies and Techniques

Group Assignment

Authors:	Student Number:
Gareth Stephenson	778919
Matsobane Khwinana	779053
Sidwell Mokhemisa	1229756
Dave Cloete	1573016
Kyle Trehaeven	0602877N

Summary

This report presents the work done by Group 2 in response to the project brief for ELEN7046: Software Technologies and Techniques. The report will broadly focus on the following topics:

- The Methodology followed to execute the project;

- The Architecture of the solution developed for the project; and

- The different technologies used to deliver the solution.

June 18, 2016

Contents

1 Introduction

TBC

2 Literature Review

3 Stakeholder Concerns - Big Data

3.1 Collection

3.2 Processing

3.3 Visualization

4 Methodology

In order for group two to successfully deliver this project, a development methodology based on IBM Rational Unified Process (RUP) was followed albeit tailored to cater for the specific needs of this project.

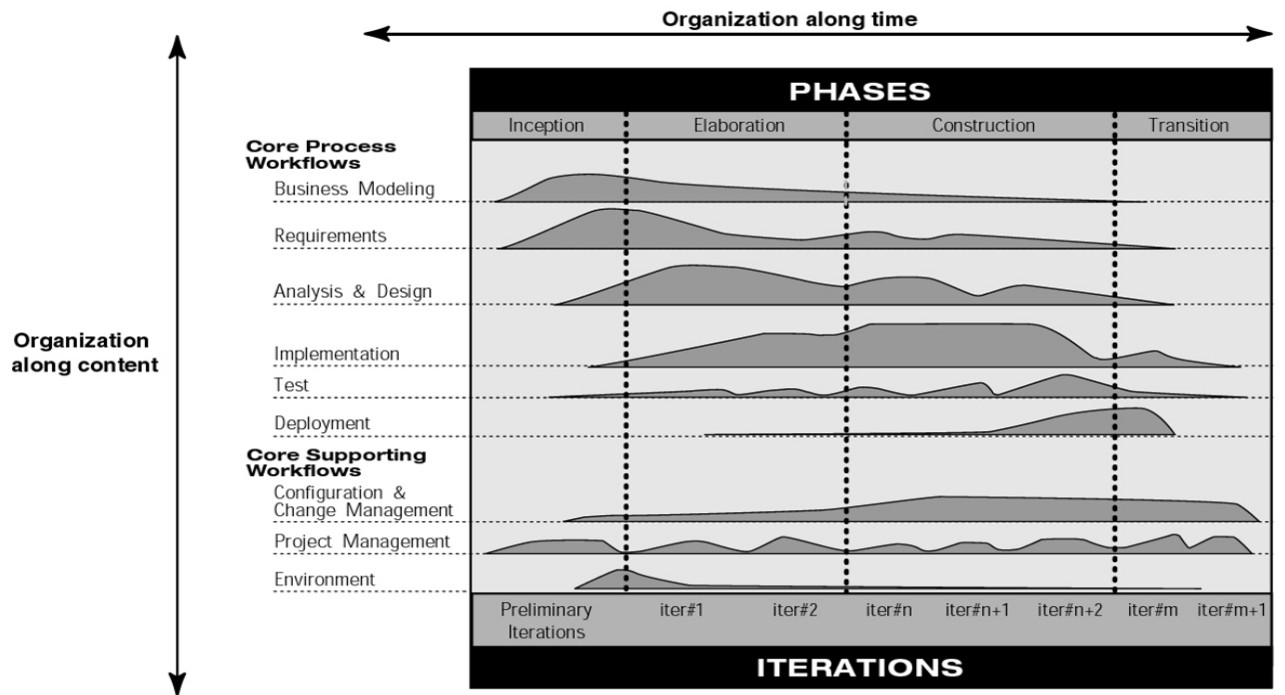The diagram below depicts the IBM RUP model:

Figure 1: IBM Rational Unified Process (Source: RUP, Best Practices for Software Development Teams)

5 Assumptions and Constraints

5.1 Tweet Locations

The group encountered tweet location issues.

5.2 Pros and Cons determinations

Rudimentary algorithm for determining Twitter statements (tweets) that are against or for a particular candidate was adopted...

6   Success Criteria

7   Architecture of the Solution

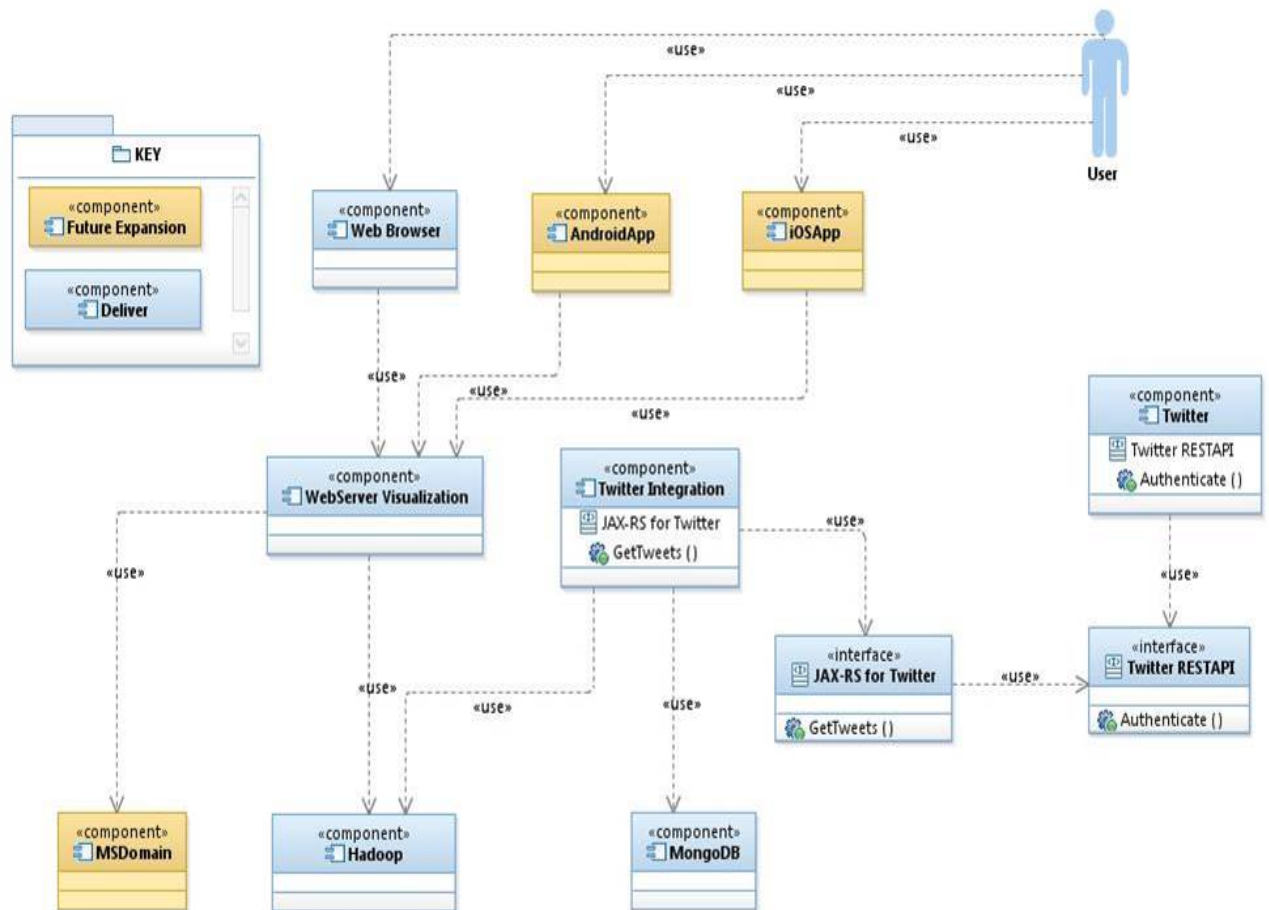## 7.1   High Level Design: Component Architecture

Figure 2: High Level Component Model.

7.2 Detailed Design: Class Diagrams

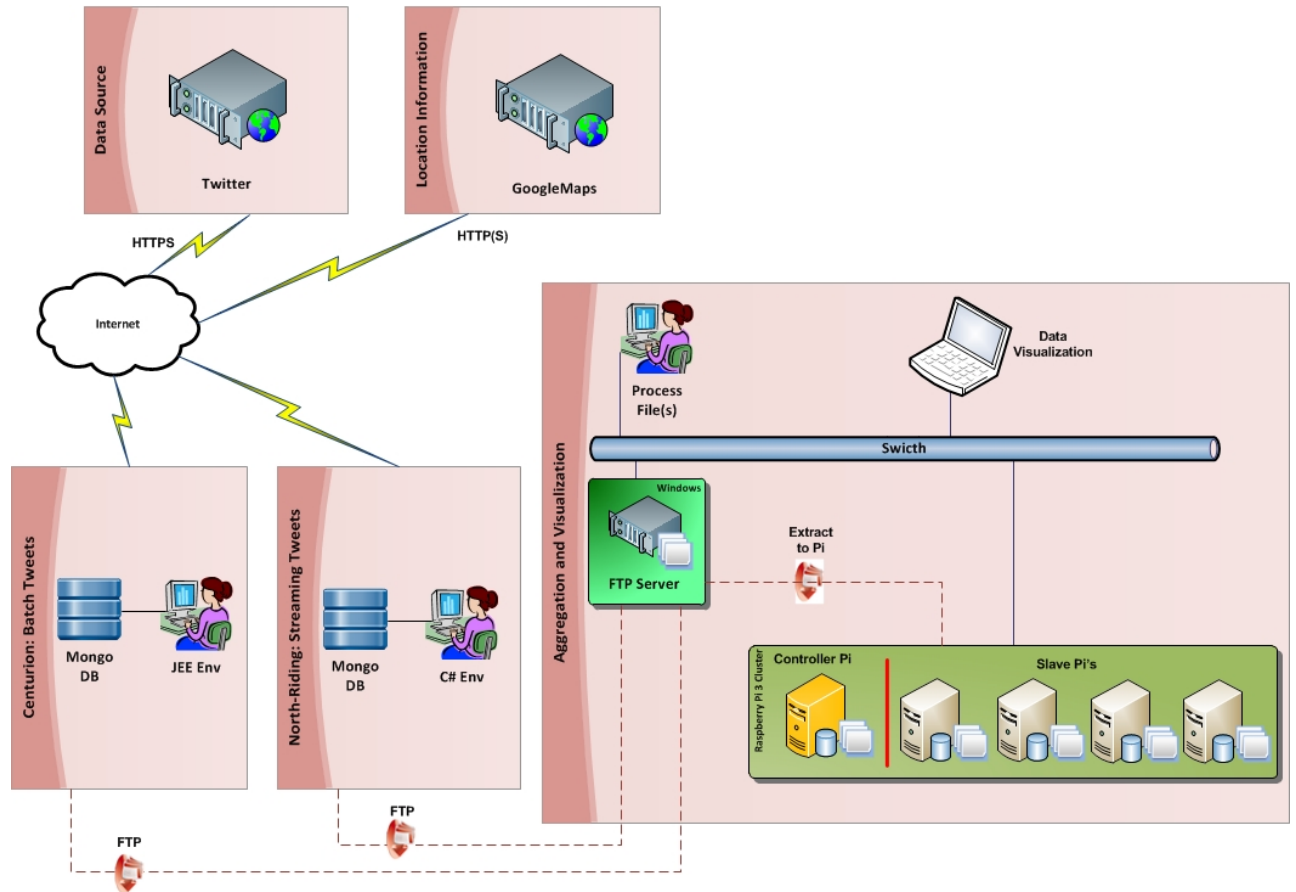## 7.3 Operational Model: Infrastructure Design

Figure 3: Operational Model: Physical

- **Personnel Shortfall:** Inexperience in the management team is a potential risk, due to the possible oversight and inaccuracies . Leach does not have sufficient IS Management experience*(pg 502 paragraph 4)*, the project may suffer if leach continues at his current position

8 Conclusion

8.1 Control Situation

Before we come to a conclusion and define the proposed actions we must first define the archetypical control situation. Based on..

References

[Van Vliet, 2008] Van Vliet (2008). Software Engineering Principles and Practice

[Frederick P. Brooks, 1975] Frederick P. Brooks (1975). The Mythical Man-Month