# **Proof of Concept: collection, analysis and archiving of publicly available social media**

# Elaboration II Testing and Revision

**Roslyn Walker Student Number 45149631**

This Proof of Concept proposes a workflow process for the collection, analysis, and archiving of publicly available data from online and social media platforms.

The aim of this plan is to test and revise a set of technologies that work together to provide a solution to the problem of collecting source data from social media and archiving it (as defined in the scoping study for this project).

The seven duties for the collection, analysis and archiving of publicly available social media are outlined in the Elaboration I plan. These duties will be tested and revised as set out in this document. Elaboration II will be revised as testing for Elaboration I continues taking into account the outcome of the tests.

## 1. Ethical (Testing duty 1)

Test. Research copyright and download restrictions of commercial entities by looking at their terms of service and identifying what can or can't be done with the data.

## 2. Source data test (Testing duty 2)

Test. Extract data from Twitter. Successful in initial test to retrieve my own personal data files from Twitter. Process

Test. Test whether an API can be retrieved from Twitter. Test by contacting Twitter and

Test. Automation process of going to a platform retrieving data and displaying it.

## 3. Storage and retrieval (Testing duty 3)

Test. Shell scripting to convert source data to machine readable text for storage/archiving.

Test. Store the data and retrieve in manipulated form.

## 4. Analysis (Testing duty 4)

Test. Whether data can be manipulated and rearranged.

Test. Locate dataset tools that can help me to interact with the data to enable formatting and output.

Test. Shell scripting to do a thematic analysis of the text.

## 5. Pipeline connection (Testing duty 3)

Test. Workflow between sourcing, storing and retrieving data.

Test. Use of and connection of proposed tools and techniques identified through testing to provide a solution to the problem of collecting source data from social media, storing it and manipulating it.

Test. Existing platforms and systems as possible solution.

Test: The steps in the solution and whether the test plan and scope of project allows sufficient time to learn, use and connect the proposed tools and techniques in a 30 day timeframe.

## 6. Data governance (Testing duty 5 )

Test. Automation of backups and manual testing procedure.

Test. Capture process of metadata with file creations.

Test. Password storage and retrieval on applications with access to data. Test application of LastPass in the solution for data governance.