

Appendix A – Detailed Work Plan

Project Deliverables

Initial plan: submit by 23:00, Fri 19th Oct 2012

Interim report: submit by 23:00, Fri 14th Dec 2012

Final report: submit by 23:00, Fri 3rd May 2013

Work Schedule

Autumn Semester Week 1 – Mon 1st Oct to Sun 7th Oct

Email to establish communication with supervisor and organise initial meeting to discuss project.

Broad research into key project ideas (Association Rule Mining and clustering techniques)

Begin writing Initial plan for discussion with supervisor in week 2

Autumn Semester Week 2 – Mon 8th Oct to Sun 14th Oct

Weekly meeting with Supervisor to discuss:

- Project understanding and direction
- Initial Plan

Refine Initial Plan after meeting with Supervisor

Autumn Semester Week 3 – Mon 15th Oct to Sun 21st Oct

Weekly meeting with Supervisor to discuss:

- Finalising Initial Plan
- Core and optional project objectives to allow for time availability later in the semester

Initial Plan: submit by 23:00, Fri 19th Oct 2012

Autumn Semester Week 4 – Mon 22nd Oct to Sun 28th Oct

A background study on Flickr and the services it offers users, specifically photo organisation and what privileges users have when it comes to labelling, tagging, albums, uploading and searching.

Background on the Flickr API and what data can be gathered from it.

Autumn Semester Week 5 – Mon 29th Oct to Sun 4th Nov

A detailed section on ARM and the algorithms behind ARM. How it is utilised within other contexts and how it could potentially be used to investigate data gathered from Flickr.

Autumn Semester Week 6 – Mon 5th Nov to Sun 11th Nov

Investigate previous similar research and how the findings can be used to influence the direction of the project positively.

Autumn Semester Week 7 – Mon 12th Nov to Sun 18th Nov

An investigation into the available tools for Association Rule Mining and how extensive they are, what format of input are they expecting and whether they suitable for this project.

Are there similar techniques that can be deployed instead of/along side? How effective are they?

Autumn Semester Week 8 – Mon 19th Nov to Sun 25th Nov

Investigation into whether a database is suitable for the project, it may be more suitable for example (depending how the analysis is executed) that the input is simply a comma delimited file.

Research Hypothesis – Theorise about the types of expected results and their implications based on the current knowledge base.

Autumn Semester Week 9 – Mon 26th Nov to Sun 2nd Dec

Time allowance for physically organising and writing the Interim Report

Autumn Semester Week 10 – Mon 3rd Dec to Sun 9th Dec

Predicted week for finishing Initial Report

Finalising, proof reading and error checking Initial Report

Finalising and checking references.

Autumn Semester Week 11 – Mon 10th Dec to Sun 16th Dec

Interim report: submit by 23:00, Fri 14th Dec 2012

Final Report Start

Identify manageable dataset by implementing various clustering algorithms.

Christmas Recess Start Date – Mon 17th Dec 2012

Continue to implement clustering algorithm until satisfied with resulting dataset

Revision for examination period

Christmas Recess Finish Date – Sun 6th Jan 2013

Autumn Semester Week 12 – Mon 7th Jan to Sun 13th Jan

Revision for examination period

Autumn Examination Start Date – Mon 14th Jan 2013

Autumn Examination Finish Date – Fri 25th Jan 2013

Autumn Semester Finish Date – Sun 27th Jan 2013

Spring Semester Week 1 – Mon 28th Jan to Sun 3rd Feb

Investigate and implement feature selection techniques on the dataset to retain only desired tags.

Spring Semester Week 2 – Mon 4th Feb to Sun 10th Feb

Create taxonomy from remaining tags after feature selection.

Spring Semester Week 3 – Mon 11th Feb to Sun 17th Feb

Perform analysis on dataset using identified ARM algorithms.

Spring Semester Week 4 – Mon 18th Feb to Sun 24th Feb

Personal commitment from 21st to 24th

Continue analysis of dataset to identify correlations

Spring Semester Week 5 – Mon 25th Feb to Sun 3rd Mar

A detailed analysis of the results produced, how significant they are and whether they match any initial predictions.

Spring Semester Week 6 – Mon 4th Mar to Sun 10th Mar

Time allowance for physical organisation and writing of report

Evaluate scalability – investigate whether the current implementations could have been parallelised to improve efficiency and increase dataset. (Optional)

Spring Semester Week 7 – Mon 11th Mar to Sun 17th Mar

Validation of results – if there are similar tools available, a comparison of results to determine accuracy.

Spring Semester Week 8 – Mon 18th Mar to Sun 24th Mar

A theoretical contemplation of how strong rules could be used to assist businesses, specifically Flickr by way of organisation, searching and suggested tagging.

Easter Recess Start Date – Mon 25th Mar 2013

A prediction using the knowledge gained from the project as to where and how prospective datasets could be located.

Testing discovered rules to suggest tags (Optional)

Begin to organise structure of report for submission.

Easter Recess Finish Date – Sun 14th Apr 2013

Spring Semester Week 9 – Mon 15th Apr to Sun 21st Apr

Time allowance for physically writing the Final Report.

Spring Semester Week 10 – Mon 22nd Apr to Sun 28th Apr

Finalising, proof reading and error checking Final Report

Finalising and checking references.

Spring Semester Week 11 – Mon 29th Apr to Sun 5th May

Final report: submit by 23:00, Fri 3rd May 2013

Spring Semester Week 12 – Mon 6th May to Sun 12th May

Spring Examination Start Date – Mon 13th May 2013

Spring Examination Finish Date – Fri 14th Jun 2013

Spring Semester Finish Date – Fri 14th Jun 2013