# Initial Plan

## Implementation of a Test Tool for Privacy Protection Algorithms

Author: Matthew Connop

Supervisor: Dr Jianhua Shao

Moderator: Prof. Stephen Hurley

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# Project Description

Design and build a tool to test different privacy protection algorithms.

This tool will allow the user to select different datasets, and which columns/headings are to be included in the test. Choose a selection of different privacy protection algorithms that will be run on the selected datasets. Allow the user to choose several ways by which the algorithms can be measured and gather the results. Then output the results so the algorithms can then be compared to each other, in a choice of formats.

The project scope will also include the finding of suitable methods by which the tool can import additional privacy protection algorithms, datasets formats, measurements and outputs.

# Project Aims and Objectives

## For Interim report

- Learn about privacy protection algorithms
  - Find out why they are needed and how they work
- Learn about ways in which to measure the algorithms
  - And ways to measure across different algorithms
- Find suitable methods to output results
- Learn about dataset formats
  - Find suitable ways to import datasets
- Interview possible end users to produce requirements
- Research other similar systems
- Design a suitable UI and System
- Build prototype
  - To include one algorithm, measure, dataset and output

## For Final Report

- Test Prototype with end users
- Evaluate results and improve on UI design and System design
- Find suitable method to allow user to import additional dataset formats
- Find suitable method to allow user to import additional algorithms
- Find suitable method to allow user to define additional measurements
- Build a larger test tool
  - Will include a few algorithms, measures, datasets and outputs
- Thoroughly test the product against requirements
- Discuss how tool can be expanded on for further work

| Task | Date |
|---|---|
| Initial Project Plan (IPP) | |
| **IPP Deadline** | |
| Background research | |
| Requirements Definition | |
| UI/System design | |
| Rapid prototype | |
| Write Iterim Report | |
| Proof Read Report | |
| **Interim Report Deadline** | |
| Revision | |
| Test tool with end users | |
| Exams | |
| Review test results/improve designs | |
| Research Additional Methods for | |
| added functionality | |
| Build final tool | |
| Test final tool | |
| Write Final Report | |
| Proof Read Report | |
| **Final Report Deadline** | |

Date: 03/10, 10/10, 17/10, 24/10, 31/10, 07/11, 14/11, 21/11, 28/11, 05/12, 12/12, 19/12, 26/12, 02/01, 09/01, 16/01, 23/01, 30/01, 06/02, 13/02, 20/02, 27/02, 05/03, 12/03, 19/03, 26/03, 02/04, 09/04, 16/04, 23/04, 30/04