CSC3003S, Capstone Project

**Progress Report**

**Date of Report:** 12 August 2019

**Report Period:** Phase 3 (2nd August 2019 – 8th August 2019)

**Project Name:** ViKER

**Client:** A/Professor Maria Keet

**Team Members:**

Jeremy du Plessis (DPLJER001)

St John Grimbly (GRMSTJ001)

Gabriel Stein (STNGAB004)

1.1 Task Activities During Report Period

* Reworked and coded basic class structures for back end:
  + Attributes
  + Inheritance
  + Method declarations
  + Excluding method body (next period)
  + We have updated our domain-class model diagram to reflect the new class
* Created JSON structure for ARM and EER
  + These will be used as input and output for test cases
  + Written test cases in the JSON structure
* Created non-functional GUI prototype for front end:
  + EER Display
  + ARM Display
  + Created window area in GUI for error log

1.2 Planned Activities During For Next Report Period

* Code up body of transformation functions
* Create drag and drop functionality in front end

1.3 Problems / Challenges Experienced

* One of our team members was ill during the period and was not able to do as much work as they otherwise would have, so we are a little behind on some aspects of programming
* The algorithm in the KnowID paper is quite abstract and there are elements in the algorithm that we do not know how to map to real code in python which is delaying our progress in implementation:
  + How to implement the path functional dependency (*pathfd(A1, A2, …) -> self*) aspect of the ARM is still not clear to us – hopefully this can be clarified at the demonstration
  + The ‘covering’ and ‘disjointness’ constraints are not clear to us – we assume they mean the same as they do in mathematics, but we are not sure.