**Spike:** Lab 3

**Title:** Goal Oriented Behaviour

**Author:** Thomas Latimer, 9718648

**Goals / deliverables:**

Summarise from the spike plan goal:

The primary goal of this spike is to fill in the blanks on a simple A.I. program such as how certain actions are applied and comparing values and implementation.

Besides this report, what else was created?

Extra functions were added such as rendering, update and other human out related functions.

For example: UML diagram, code, reports, etc:

* Refer to simple code A.I. in lab 3.
* This spike is known as lab\_3\_report\_9718648.
* The UML diagram is in progress.

**Technologies, Tools, and Resources used:**

List of information needed by someone trying to reproduce this work:

* Pycharm 3.1.
* Python 3.3, for separate testing.
* Additional research.
* Microsoft word for the construction of this document.

**Tasks undertaken:**

List key tasks likely to help another developer:

This section should resemble a tutorial – the goal is to allow another coder to reproduce your work following these steps.

Eg: (Good)

* Download and install Visual Studio
* Download and install DirectX
* Configure VS Project File to point to the DX lib folder
* Compile sample code

Not: (Bad)

* Read the source code
* I had some trouble with SDL, so I spent a couple of weeks doing other spikes
* Run code
* Write Spike Report

**What we found out:**

Describe the outcomes, and how they relate to the spike topic + graphs/screenshots/outputs as needed:

The outcome was testing the program, Making sure the errors were corrected and what happened once the code was executed.

Start-End Period: ##-##:

**Open issues/risks** [Optional – **remove** heading/section if not used!]**:**

List out the issues and risks that you have been unable to resolve at the end of the spike. You may have uncovered a whole range of new risks as well:

* I did have some trouble with the code prior because even though the comments specified what needed to be done with the program such as fill in some of the missing blanks but the issues I had was how to fill in those missing pieces.
* There was also the issue earlier on with what program to run it on whether it would be a browser, python or Pycharm. Getting those programs mixed up is not good for progress.

**Recommendations** [Optional – **remove** heading/section if not used!]**:**

Often based on any open issues/risks identified. You may state that another spike is required to resolve new issues identified (or) indicate that this spike has increased your confidence in XYZ and should move on:

* Make sure you use one program you are comfortable with and stick with it because performance varies on each program you come across when coding in them. My choice was Pycharm rather than python.
* Make sure you do the right kind of research because you need to make sure what those missing spaces are and try to find a good way to fill them without ripping another person off.
* The types of functions I mentioned earlier on were references to the second lab where we had to create a Smart A.I. which behaved according to how the player did. Those functions were supposed to actually get the program working properly not necessarily program an A.I. the errors were listed and acted on accordingly.