Weekly Report

# Supervisor Notes

Unfortunately, due to a miscommunication from my supervisor I have been unable to meet him this week. However, I have been able contact him via email and create a check list of goals for the week

* Learn Test Driven Development
* Create a list of requirements for the Edge Weighted Graph and connected classes
* Implement Unit tests for Edges and Vectors
* Implement both and Edge and Vector class that passed these tests
* Extend the development planner

# This week’s progress

I have been learning Test Driven Development (TDD) over the past week to have a professional testing standard for my project. The lecture for this week was extremely useful as it covers unit testing, one of the most important aspects of TDD.

I have created a list of requirements for Edge Weighted Graphs and its components:

Requirements for Edge Weighed Graph

* The ability to construct regular and edge weighted graphs
* The graph should not allow vertices to be connected to themselves (no self-loops)
* There must be no duplicate connections between vertices
* The label of each vertex must be unique

Requirements for Edges:

* Must be connected on both sides as an edge cannot exist without a vertex
* The graph will not contain any vertices that self-loop
* The edge must be able to return either vertex connected for traversal

Requirements for Vertex:

* The ability to add and remove edges to allow for construction of graphs
* Each vertex must know how many edges are connected to it at any given time
* Each vertex must be able to return specific edges for traversal\s

I have implemented and tested the vertex class in java, however I have not completed the edges and thus could not complete the edge weighted graph. I will continue working on this during the weekend and will hopefully complete this before next week.

This week I may have set to high a workload as I have been unable to find time to extend the development process (gantt chart).