

# 306 PROJECT ONE

## 1. PLAN

### 1.1 WBS

### 1.2 Network Diagram

- 1.2.1 Estimate times for each task

### 1.3 Gantt Chart

- 1.3.1 Estimate times for each task

### 1.4 Research

- 1.4.1 Investigate which type of algorithm to use.

## 2. CODE

### 2.1 Read in file

- 2.1.1 Read file from command line
- 2.1.2 Read command line options

### 2.2 Process the file

- 2.2.1 Create the graph data structure

### 2.3 Algorithm

- 2.3.1 Implementation of A\* algorithm

### 2.4 Produces Output

- 2.4.1 output as a .dot file

### 2.2 Parallelise

### 2.2 Visualisation

### 2.1 Output the optimal schedule

### 2.8. Optimise algorithm

## 3. TEST

### 3.1 Create test

- 3.1.1 Tests for file I/O
- 3.1.2 Tests for processing of file
- 3.1.3 Tests for algorithm (correct output)
- 3.1.4 Tests for parallelisation
- 3.1.5 Tests for visualisation

## 4. MANAGE

### 4.1 Commenting

### 4.2 Documentation

- 2.2.1 Documentation on GitHub

### 4.3 Wiki

