Individual project diary

This diary includes the work I have done for the project and the time it took me to complete it. This does not include the time that I spent thinking about ideas for the project report.

8 feb – learnt basic OpenCV functions to help load the pre trained yolov3 architecture. I was also about to identify people within an image. Approximately 1-2 hours of work

10 feb – worked on method section, updating ‘agile development’, ‘management tools’, ‘version control’. 30 minutes of work

12 feb - added ‘deep learning architectures for object detection’ and ‘programming language and libraries’ to method 1 hour of work.

14 feb – prepared the images and clips that would be used in the report using windows video editor. Took about 30 – 45 minutes of work.

15 feb – documented dataset preparation for the report. 1-2 hours of work

16 feb – Developed activity and class diagram for report. 1-2 hours of work

18 feb – Added video compatibility to my software with GPU enabled. 3 – 4 hours of work

20 feb – Added development phases to report. 1 hour of work

**The sprint times only include the coding aspect of the objective and does not include the write up**

25 feb - 2 mar – Sprint 1: Detecting objects with ‘yolov3’ 10 hours of research and work

5 mar - 10 mar – Sprint 2: Detecting social distancing by bounding box distance. 15 hours of research and work

12 mar - 18 mar – Sprint 3: Detecting social distancing by matrix transformation. 15 hours of research and work

20 mar - 28 mar – Sprint 4: Detecting social distancing by camera calibration. 35 hours of research and work

29 mar - 2 apr – Sprint 5: Plotting pedestrians on a top-down view of the image. 10 hours of work

2 apr – 7 apr – Sprint 6: Identifying groups of people and marking them ‘safe’. 20 hours of work

8 apr - 10 apr – Added the discussion and conclusion section to the report – 3-4 hours of work.

11 apr – added introduction to the report – 2 hours of work.

12 apr – added abstract to the report – 1 hour of work.