**To Do (From Brief / Specification)**

Coursework 1 - (Wednesday 24th Feb)

* The conceptual model representing the data in the problem domain - **Conceptual ERD**
* The use cases, sequence, and class diagrams - **UML Diagrams**
* Your proposed test plan for each of the use cases - (Ask about this)
* The wireframe and high-fidelity interface design of your application - (Ask about this)
* The comments you received from your team-mates about your application and how you dealt with them
* The comments you have given your team-mates about their applications
* Your record of engagement with the module demonstrating time management and version control (Gantt Chart)
* Additionally:

• Minutes of meetings and agreements

• On-line discussions

• Research links

**Spec**

1. Allow users of your application to register with username and password

2. Allow users to enter the application using their username and password

3. Log the user’s activity 4. Allow administration of the users’ data and display of user activity

5. Read traffic data from the data files into appropriate table structures which you will design – the table design can be created using SQLite (or mySQL)

6. Allow users to display the data graphically (you can use libraries for the graphical elements, eg JFreeChart) and query the data based on interface elements (eg menu, check box, sliders etc) of your choice.

**Brief**

We are a large multinational organisation. We process data, analyse them, and present them graphically. We make most of our software available as open source1 . We make most of our media available through Creative Commons2 . We make lots of money from support services and bespoke software enhancements. We expect our employees to be professional, ethical and compliant with the relevant laws, to manage themselves and their relation to others, and to deliver high quality products and services and deliver them on time. You are employees of this organisation. You have been asked to work in teams and create a program that analyses data related to planning and development of roads in councils. The data that you must present is traffic volume recorded on count points on UK roads. The users are interested in the volume of traffic per vehicle type, road type, time of the day, average traffic volume etc. You need to present the results graphically to users. Based on this information the councils will be able to make decision regarding the development of the roads in their area, for example constructing cycling lanes, one-way streets, placing traffic lights etc.

**Questions**

* How to produce a proposed test plan (What to include? how detailed it has to be?) - **Have an example of this**
* How to produce the wireframe and high-fidelity design (What would it look like? What program to make it with?)
* Conceptual ERD - Split entities from data or treat it as one big entity? - **Definitely split, also do logical**
* Do we need to have a Gantt chart, or is it okay with what we have (Trello) - **Yes, make gantt chart**
* How many UML diagrams to make (Use case diagram - only one or multiple) - **One of each**
* Story boards (wireframe and mock up) --- Clarification
* Can a single road go across multiple regions?
* Can we create an ID for traffic volume? (combine direction of travel and hour)

