Object-Oriented Database Exercise

So far you should have an awareness of four different data models which can be used for implementing database systems:

- Network;
- Hierarchical;
- Relational;
- Object-oriented.

Different models are ideal for certain types of applications. Your task, in your allocated group, is to consider a sample application given from one of the below, and on your A3 sheet of paper provide a justification (as either a list of bullet points or a 'mind-map' type of diagram or any other method you so wish) as to which would be the most appropriate data model to use for the application given.

In your justification you should consider issues such as (but not restricted to):

- Types of data that you would be storing;
- Types of relationship between the data;
- Data manipulation capabilities;
- Who the users of such a system would be;
- Usability of the system;
- Data provenance (i.e. accuracy, traceability, location of data); …

The applications are (your group will be allocated **one** of these to think about):

1. An in-car satellite navigation system;
2. A local authority services (e.g. gas and water pipe installations) management system;
3. A nationwide patient information system;
4. A weather forecasting system.