Overview of SSA/SD Structured System Analysis and Structured Design Method

Steps 1-2: Structured systems analysis (see Budgen Figure 10.5)

* Level 0 = context diagram.
* Level 1 = top level DFD.
* Level 2 = explosion of level 1 DFD bubbles.
* Level 3 = use this level as appropriate.

Step 3: Transaction analysis step and has five basic components:

1. The event in the systems environment that causes the transaction to occur;
2. The stimulus that is applied to the system to inform it about the event;
3. The activity that is performed by the system as a result of the stimulus;
4. The response that this generates in terms of output from the system;
5. The effect that this has upon the environment;

Therefore, you will need to identify a simple but comprehensive example of a transaction (see page 218 and Figure 10.8 of Budgen) that accounts for all of the five items described above. This will help you to define a good set of test cases. There should be 4 transactions identified. These will be your main starting points for the demonstration.

Step 4: Identify the central transform in the DFD:

You do not have to redraw the DFDs but if you add a "boss" bubble redraw showing where the boss fits. Which will allow you to develop a hierarchical structure chart. Develop structure charts for all of your level 1-2 DFDs.

Step 5: Merge the Structure Charts

The objective of this step is to produce a single structure chart (see Figures 10.23, 24 of Budgen).