

Digital system design

Lab ASSIGNMENT-2

SEM-3

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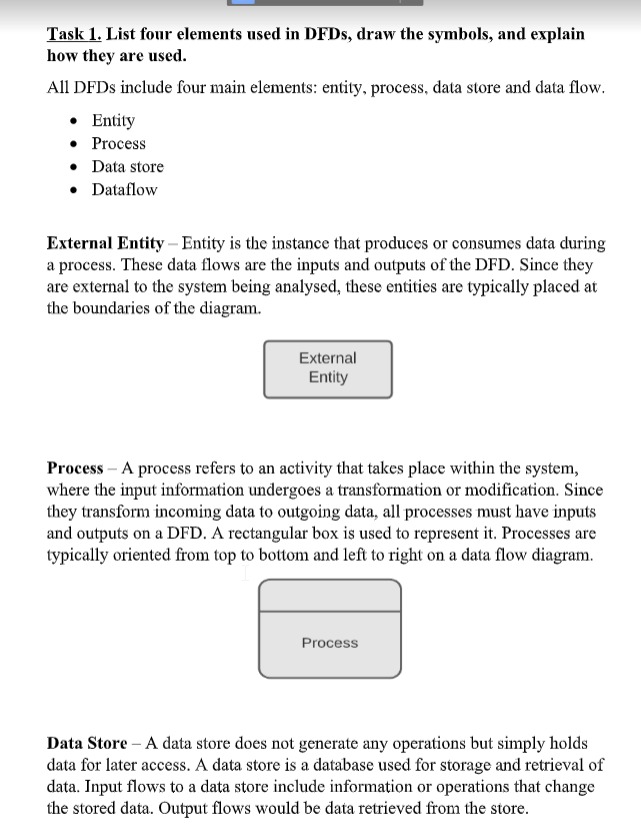
The use of data flow diagram levelling increases the depth of visualization that modellers have of a given system. In fact, it allows them to increase the details of a system being developed and in the end, allow various sections such as lower level primitives to be located. When modelling a system, arriving at abstraction is not possible if modellers have few details of a system. However, a higher level of abstraction is gained when a system is levelled because it allows the system to be thoroughly examined in more detail. With the levelling of data flow diagrams, it is possible to work on a complex system with precision and clarity.

The concept of balancing states that all the incoming flows to a process and all the outgoing flows from a process in the parent diagram should be preserved at the next level of decomposition.

Process decomposition lets you organize your overall DFD in a series of levels so that each level provides successively more detail about a portion of the level above it.

The goal of the balancing feature is to check your system internal consistency, which is particularly useful as different levels of expertise are generally involved in a project.

When you decompose a process, PowerDesigner helps you initialize, in the sub diagram, the objects from the upper-level to link to the sub-process. PowerDesigner automatically retrieves global objects, such as external entities or data stores and creates object shortcuts, if need be

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