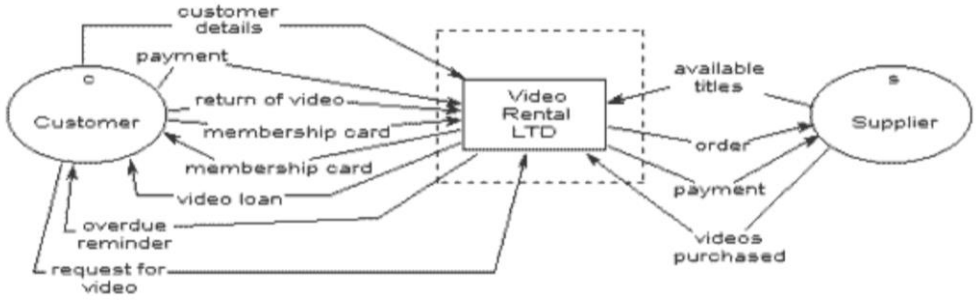
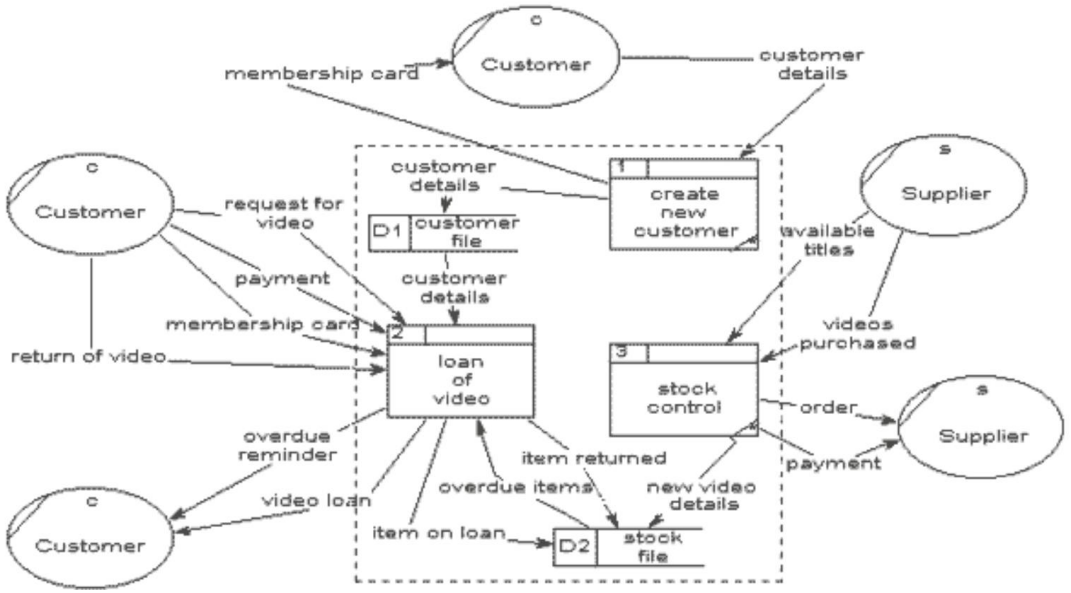
Model.4: Data Flow Diagraming <sparx-models> <website> <how.to.doc[VG]> <how.to.video> <wikipedia>

Purpose: is the proess of representing simplified data transactions enabling process and stakeholder owners to agree on scope and boundaries of a systems analysis and design re-engineering effort. Key tasks are consolidated in levels 1 to 2 concentrating focus on the 1 to many transactions they likely perform.

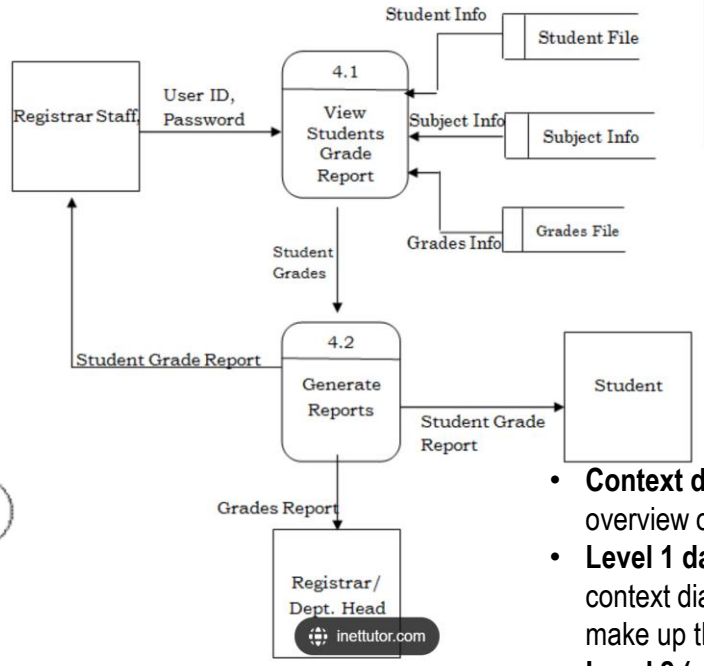
Level 0 - DFD - Context Diagram



Level 1 - DFD - Details + 1



Level 2-DFD - main sub-processes and data stores



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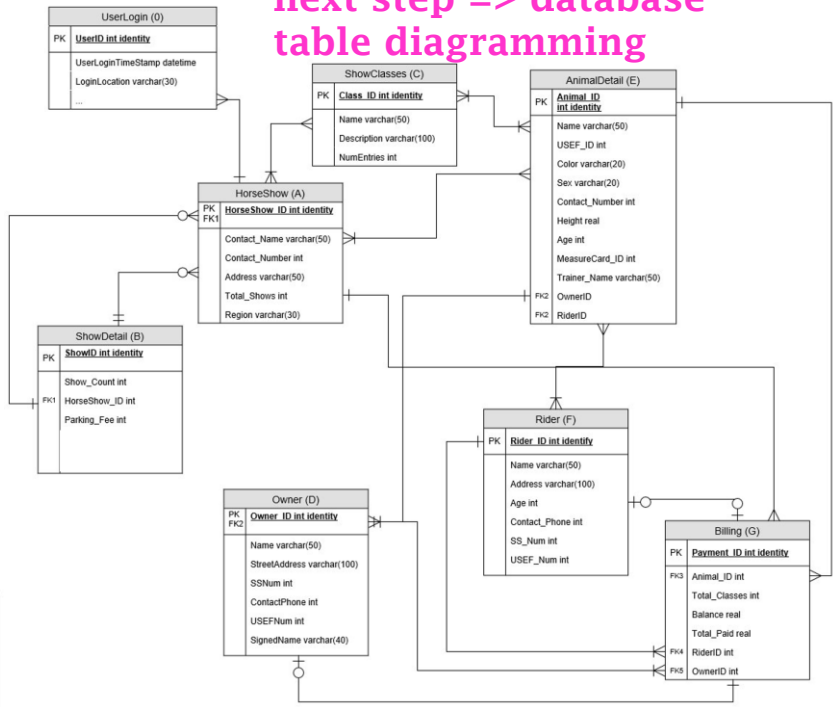
next step => database table diagramming



- **Context diagrams** — context diagram DFDs are diagrams that present an overview of the system and its interaction with the rest of the "world".
- **Level 1 data-flow diagrams** — present a more detailed view of the system than context diagrams, by showing the main sub-processes and stores of data that make up the system as a whole.
- **Level 2 (and lower) data-flow diagrams** — a major advantage of the data-flow modelling technique is that, through a technique called "levelling", the detailed complexity of real world systems can be managed and modeled in a hierarchy of abstractions. Certain elements of any dataflow diagram can be decomposed ("exploded") into a more detailed model a level lower in the hierarchy.