#### CSE 471 - Lab 08

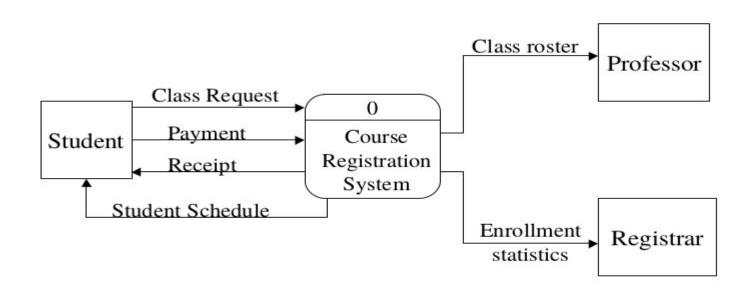
Data Flow Diagram

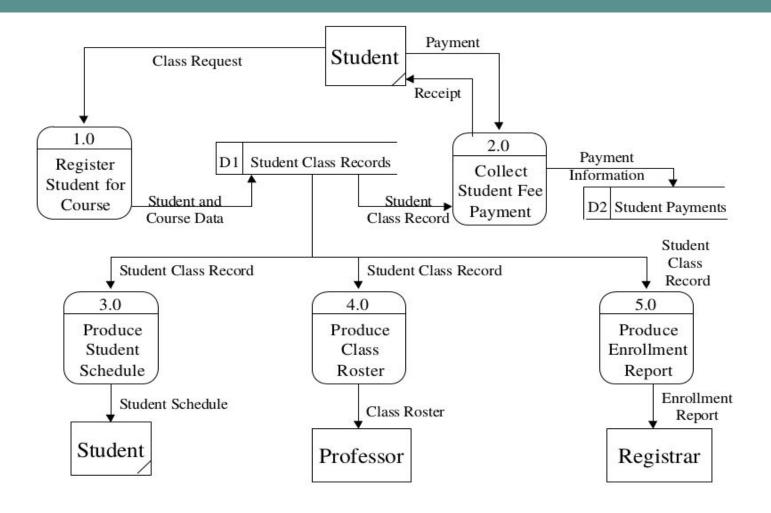


## Data Flow Diagram

- Process modeling
- Flow of information among processes, external entities, data stores
- Context Diagram
  - Overview of entire system
  - System as a single process
  - Identify external entities and data flow
- Level 1 Diagram
  - Major sub-processes of the system represented by Context diagram
  - Must balance in accordance with Context diagram

#### Course Registration System

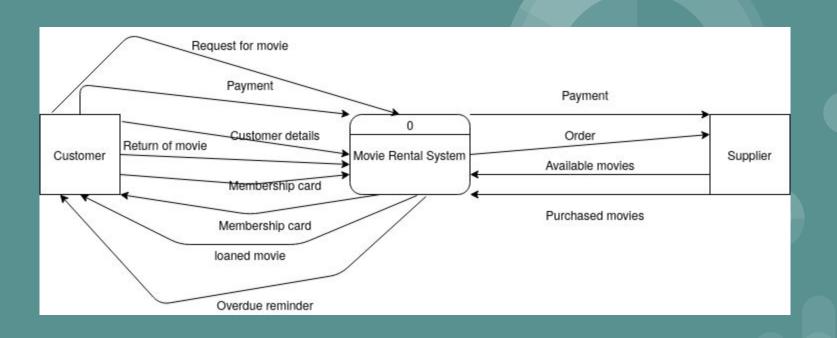


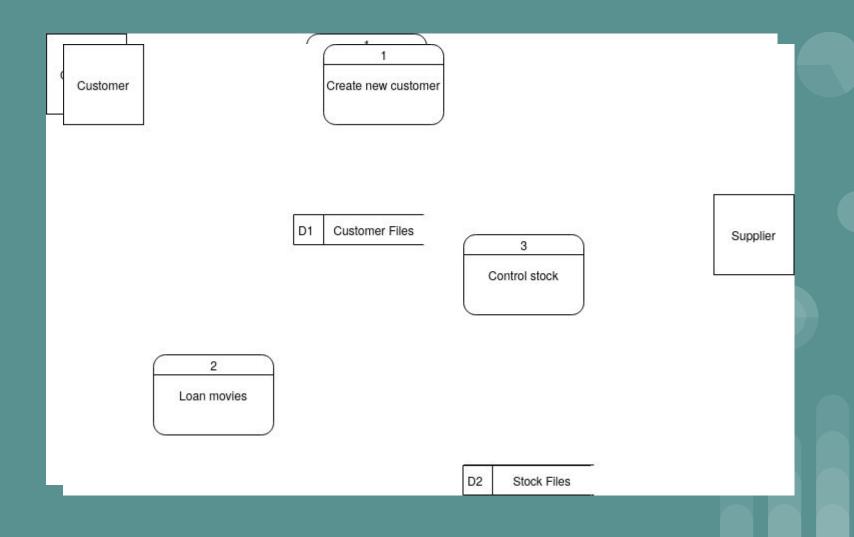


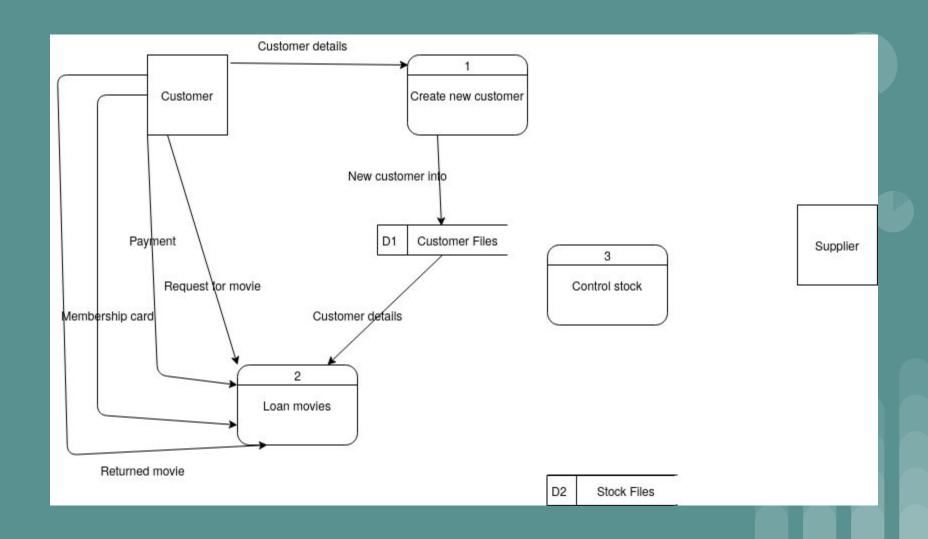
MovieMania is a small movie rental store. The store lends movies to customers for a fee, and purchases its movies from a DVD supplier corporation. A customer wishing to borrow a movie provides the empty box of the movie they desire, their membership card, and payment – payment is always with the credit card used to open the customer account. The customer then returns the movie to the store after watching it. If a loaned movie is overdue by a day the customer's credit card is charged, and a reminder letter is sent to them. Each day after that a further card is made, and each week a reminder letter is sent. This continues until either the customer returns the movie, or the charges are equal to the cost of replacing the movie. New customers fill out a form with their personal details and credit card details, and the counter staff give the new customer a membership card. Each new customer's form is added to the customer file. The movie supplier sends a list of available titles to MovieMania, who decide whether to send them an order and payment. If an order is sent then the supplier sends the requested movies to the store. For each new movie a new stock form is completed and placed in the stock file.

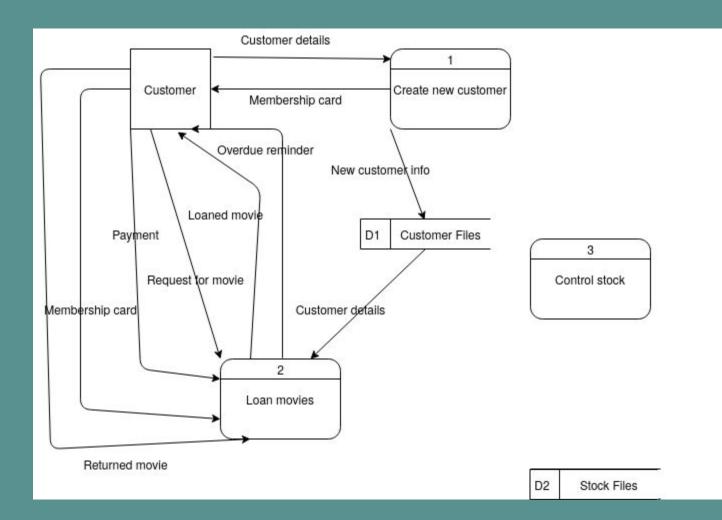
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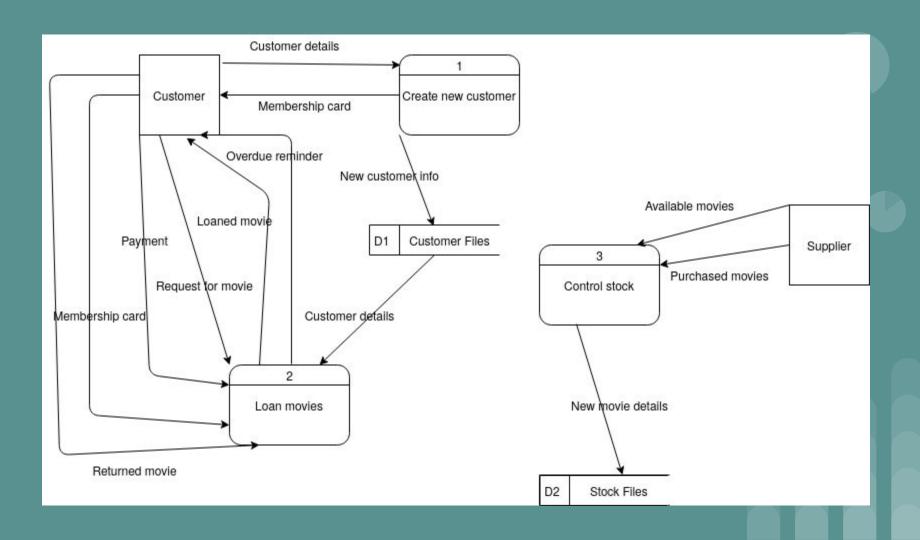


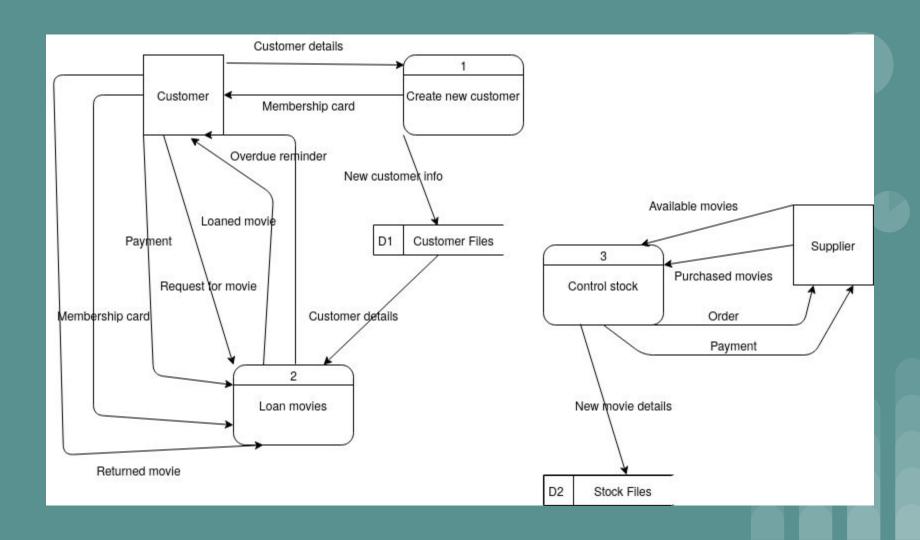


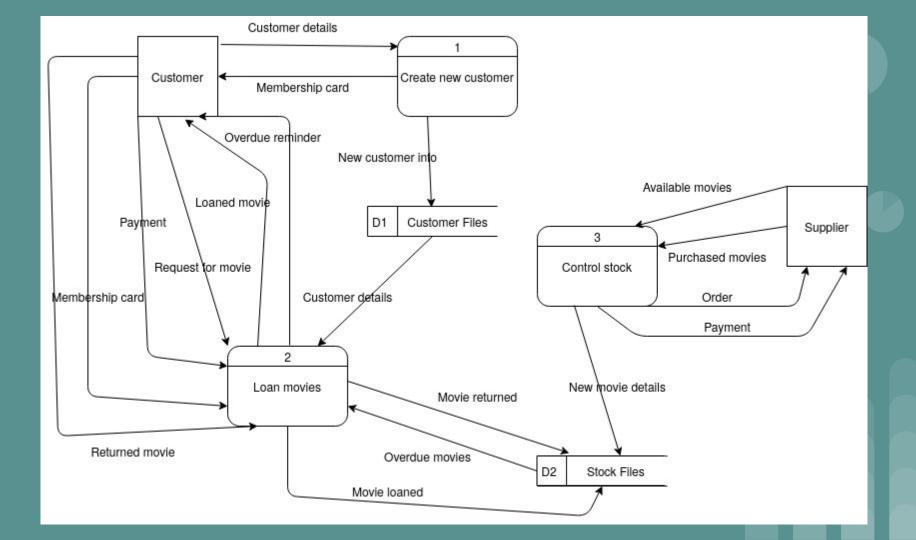




Supplier







#### References

- https://www.cs.uct.ac.za/mit\_notes/software/htmls/ch06s06.html
- UML Distilled A Brief Guide to the Standard Object Modeling Language, Martin Fowler