

DFD Examples

Prepared by Dr Osman Ibrahim

Example1: Mail Ordering System

- Consider a mail order company that distributes CDs and tapes at discount prices to its members.
- When an order processing clerk receives an order form, she verifies that the sender is a member by checking the MEMBER FILE.
- If the sender is not a member, the clerk returns the order along with a membership application form.
- If the customer is a member, the clerk verifies the order item data by checking the ITEM FILE.
- Then the clerk enters the order data and saves it to the DAILY ORDERS FILE.
- At the same time the clerk also prints an invoice and shipping list for each order, which are forwarded to the ORDER FULFILLMENT DEPARTMENT for processing there.

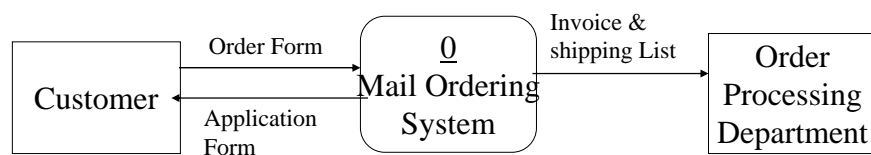
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Example1: Mail Ordering System

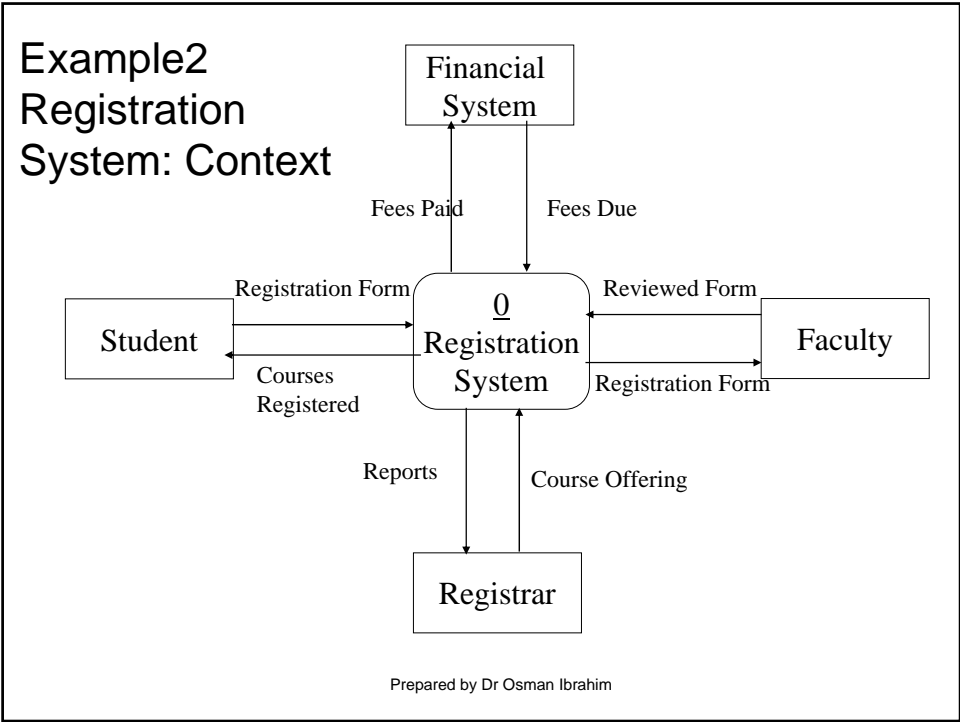
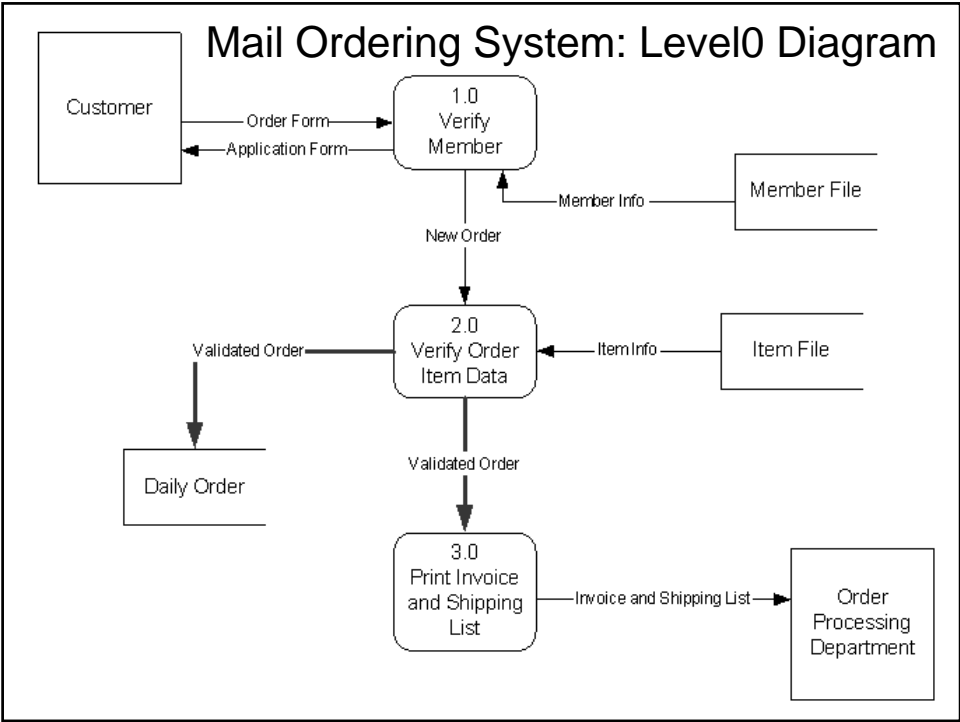
- A mail order company that distributes CDs and tapes at discount prices to record club members (tells the purpose of the system).
- When an order processing clerk receives an order form (data flow), she verifies (process #1) that the sender is a club member by checking the MEMBER FILE (data store). If the sender is not a member, the clerk returns the order along with a membership application form (data flow).
- If the customer is a member, the clerk verifies the order item data (process #2) by checking the ITEM FILE (data store).
- Then the clerk enters the order data (data flow) and saves it to the DAILY ORDERS FILE (data store).
- At the same time the clerk also prints an invoice and shipping list (data flow) for each order (process #3), which are forwarded to the ORDER FULFILLMENT DEPARTMENT (external entity) for processing there.

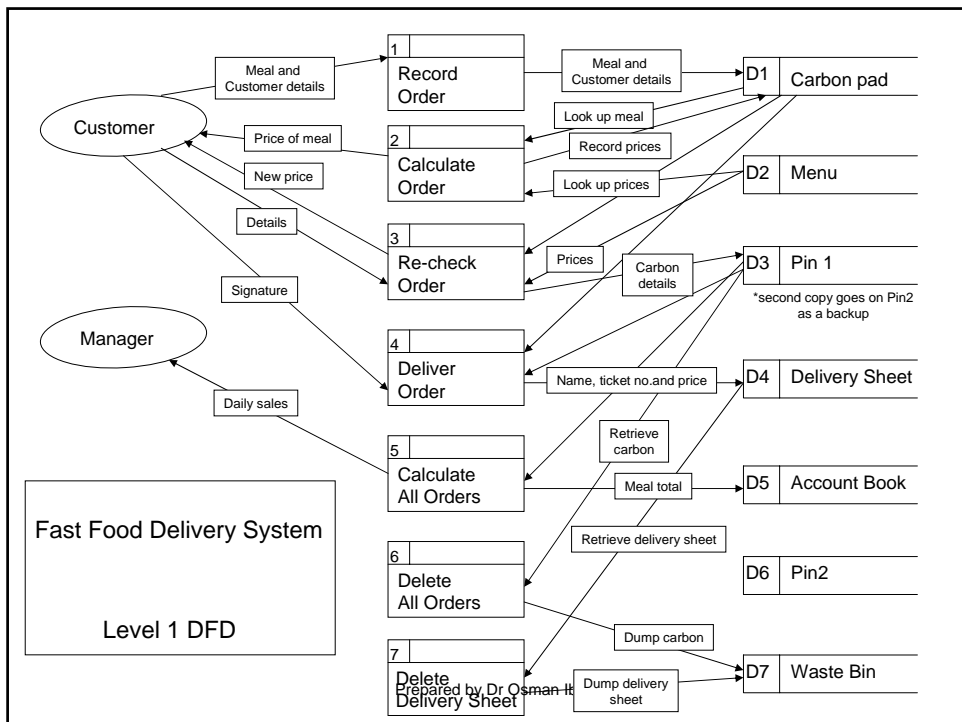
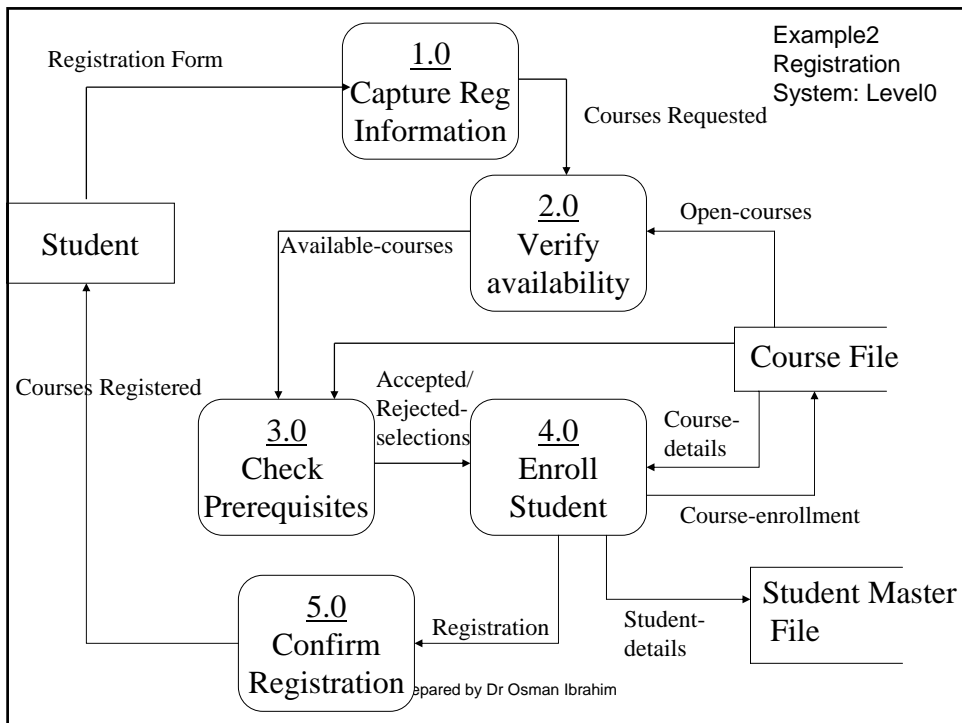
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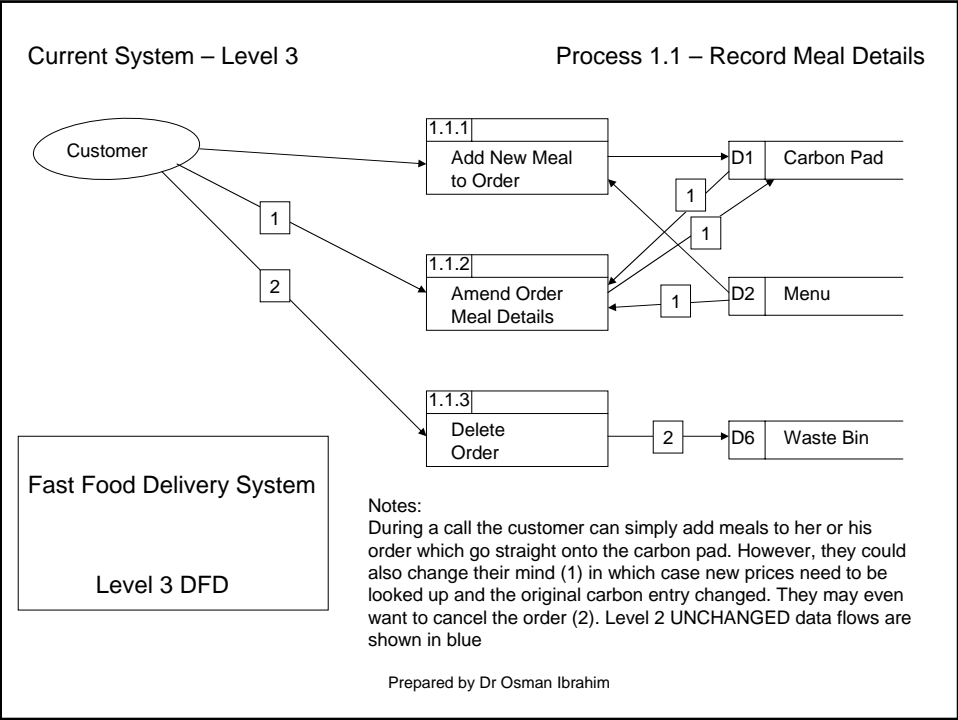
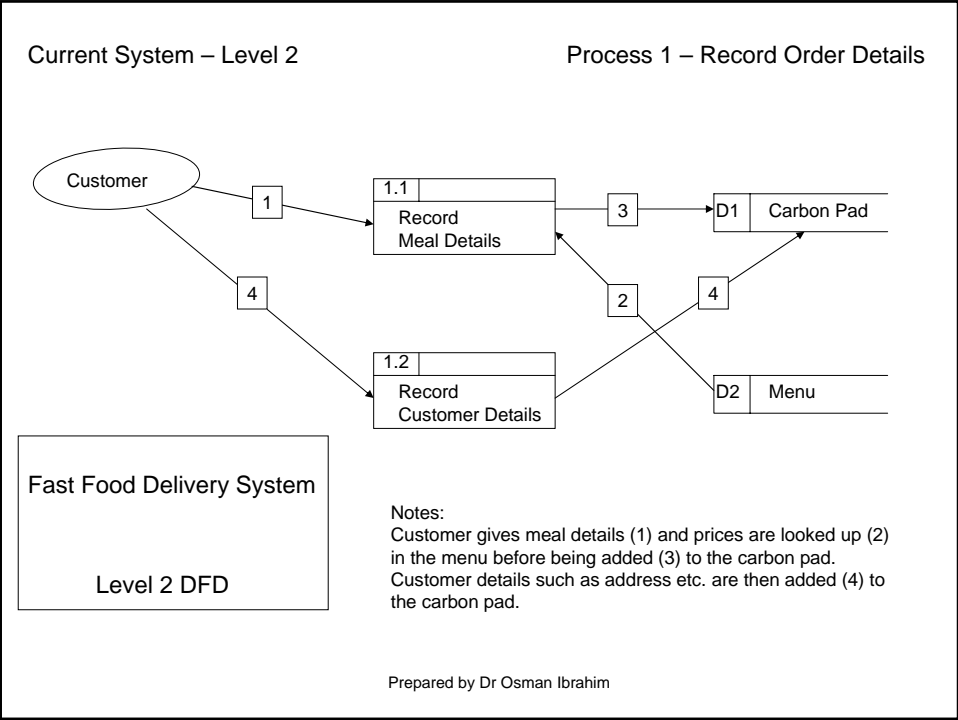
Mail Ordering System: Context Diagram



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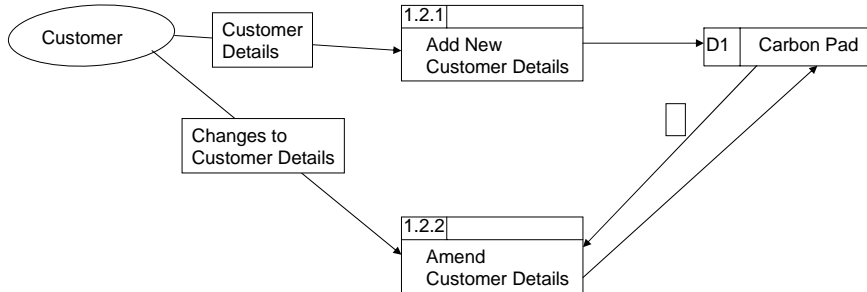






Current System – Level 3

Process 1.2 – Record Customer Details



Fast Food Delivery System

Level 3 DFD

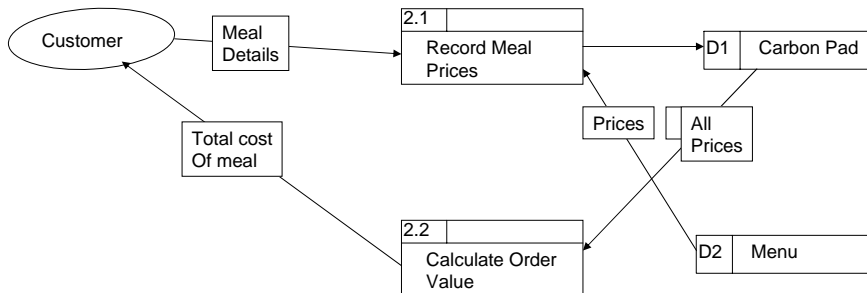
Notes:

During a call the customer's details – name, address etc. are added to the carbon pad. However, during the call it may be necessary to amend their details (for example, if the telephone operator has misheard the original details. Level 2 UNCHANGED data flows are shown in blue

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Current System – Level 2

Process 2 – Calculate Order Value



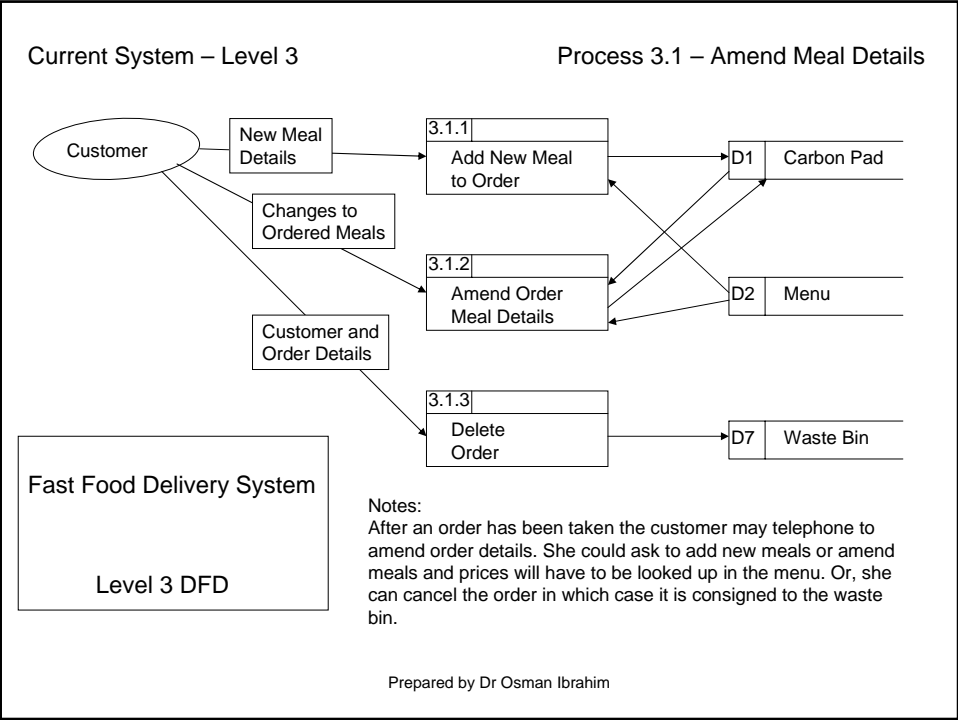
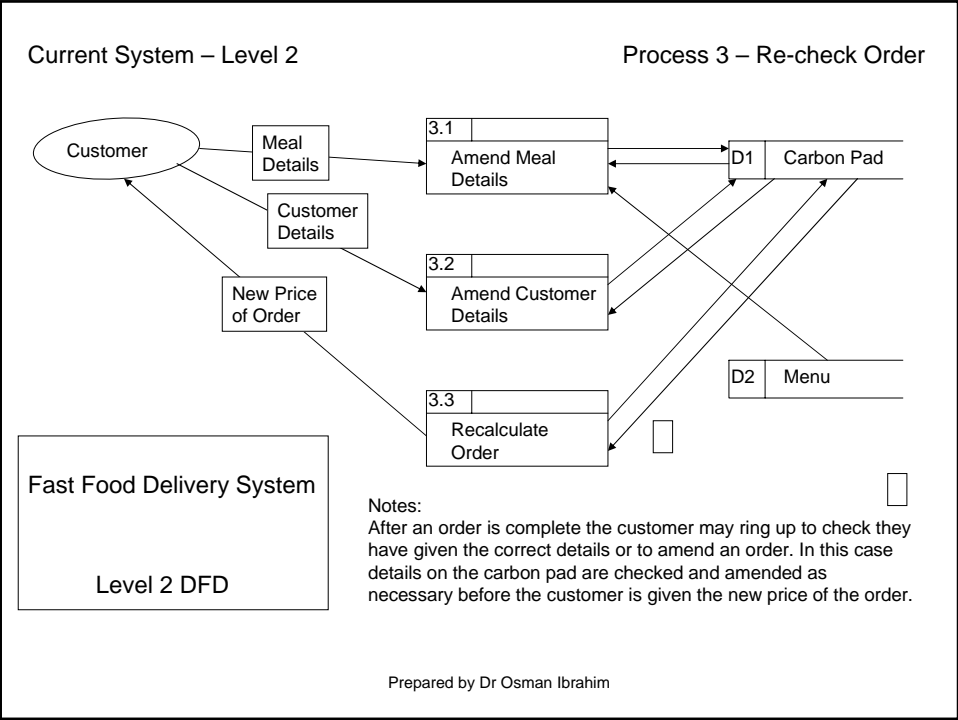
Fast Food Delivery System

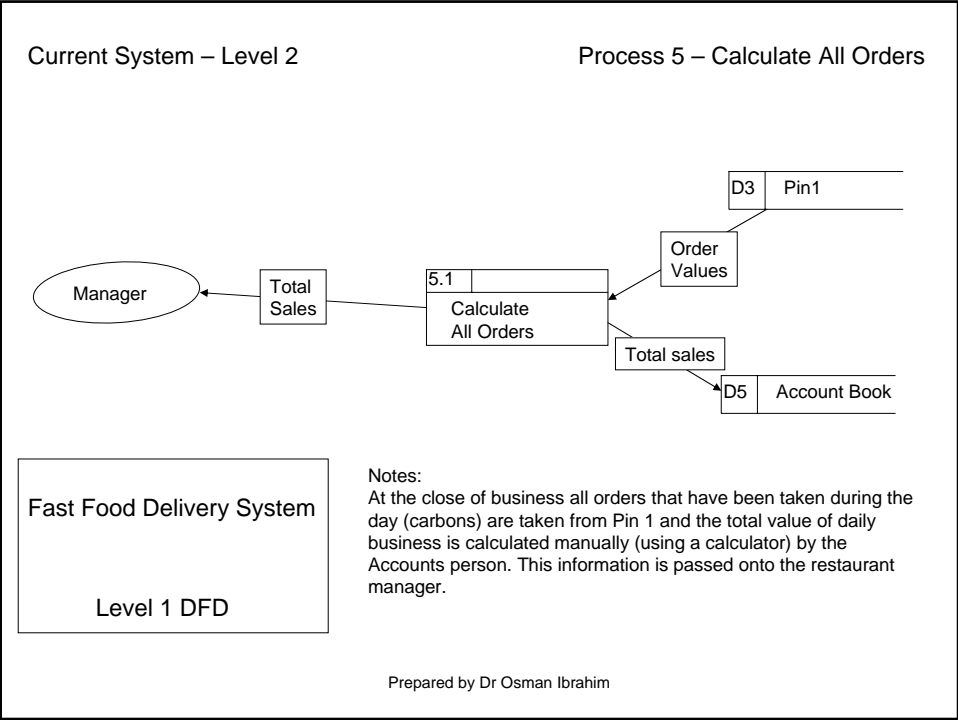
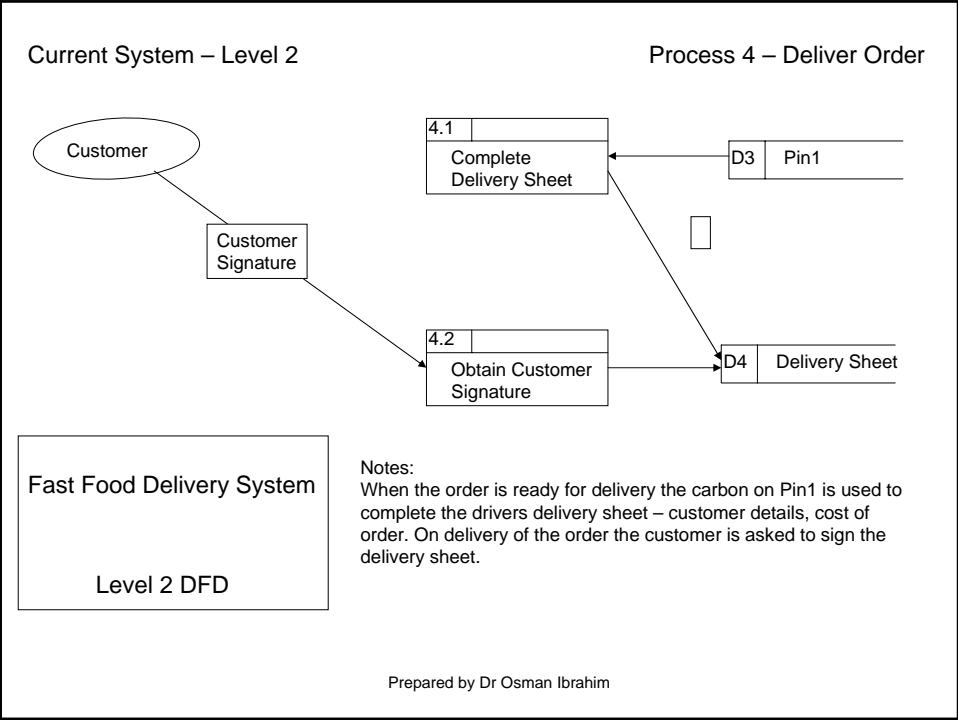
Level 2 DFD

Notes:

During a call individual meal prices are looked up in the menu and added to the carbon pad. On completion of an order the prices of all ordered meals, on the pad, are added together to give the total cost of the meal. This is then relayed to the customer.

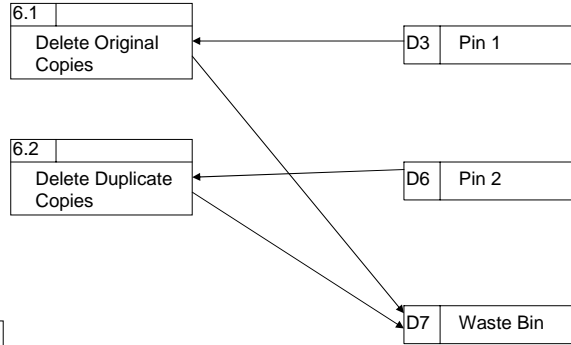
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Current System – Level 2

Process 6 – Delete All Orders



Fast Food Delivery System
Level 2 DFD

Notes:
At the close of business all original and duplicate copies of orders (carbons) are removed from the pins and disposed of.

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