Page No. 33

EXPERIMENT - 10

Aim: To perform and study Data Flow Diagrams,

(a) Level O, I and 2 DFP of

Theory: Data Flow Diagrams are visual representations that depict the flow of data within a system or provor. They provide a clear and struct-tired way to understand how information more between different components of a system, such as inputs, provoces, outlets and data storm.

Notations of DFD's :

- (i) Process It represents activities or transformations permormul on data within the system. They are depicted by rectangles with arrued edges with a top section that have the name and level of process.
- (ii) Data Flow Represents movement of data between 2 components. They are represented by lines with arrow head.
- (iii) External Entity These are sources or destination of data that interact with

 the system but an outside of its boundaries. Represented by squares or rectangles.

 (iv) Data Store 9t represents repositionies or databases where data & stored.

 Represented by 2 parallel line with a small section on left.

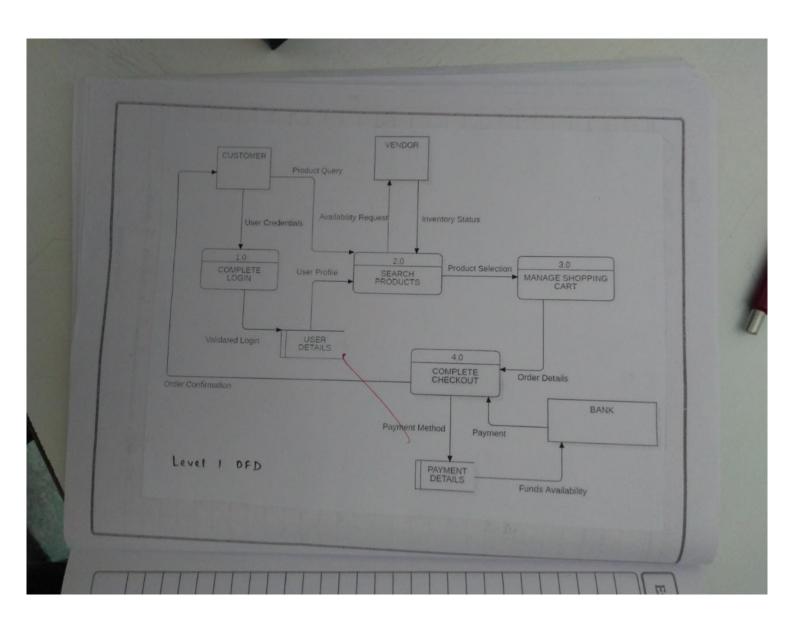
Levels of DFD

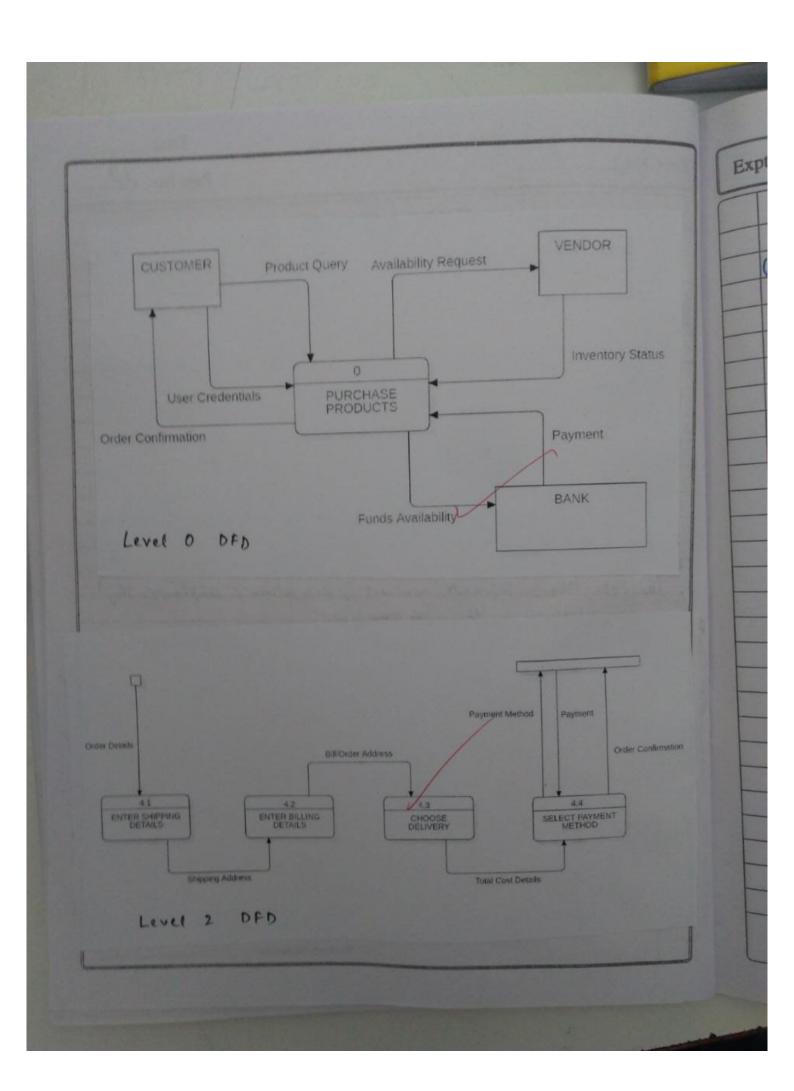
(i) Level - O DFD - Also known as context diagram, represents the highest level view of the system of provides an everyteen of the system boundaries and its interaction with external cutition.

(ii) Level - 2 DFD - 9t breaks down the process of Context diagram into more detailed subprocesses. Each process in the Level 2 DFD

Teacher's Signature :

Page No. 34 correspons to a major activity or transformation within system (ii) Level - 2 DFD - 9+ provides further decomposition of Level - 1 processes. Each Level - 1 process is broken down into more detailed subprocesses revealing the internal operations and data flow within each process Example: (a) Zero Level DFO of E-Commerce website. - aistorner provides the product gurry and user credentials to the website - The process website sends a request with availability request to the wandars, and nunder provides the Turentory status. - The website asks the bank of a for availability of funds of user, then if the finds are available, the bank makes the payment. - Then after payment is done, website sands user a order confirmation (b) Level - 1 DFD of E-commerce website - Customer provides the user creductals to the Complete Login Prouse - The process validates the legin from User Detail data-store and if the user is authenticated, Gostomer's Product query is passed to the Search Products proust. The Search product process chicles availability from nuder and the vender sends back the inventory status. Then the sected products are passed to Manage Shopping Cart process It passes the order details to the Complete Checkout process That process checks finds avoile bility from the & Payment Details data - store which further contacts the bank. If funds are assistable, bank makes the payment At lost an order confirmation & sent to the costor Teacher's Signature:





		Date
7	Expt. No.	Page No. 3
	(c) Level - 2 DFD of E-Commerce Websit - The process - Monang Complete Checker - First the order details comes to Ent - It passes the Shipping details to the - It passes the Shipping Address to Complete the first for passes the Total Complete Confirmation is sent to the Costoner Confirmation is sent to the Costoner	er Shipping Details process. Enter Billing Details process. There Delivery process. St Details to the select Payment from Bank and the Order

Notation	Yourdon and Coad	Gane and Sarson	
External Entity			
		1	
Process			
Data Store			
Data Flow		·	