Don Bosco Institute of Technology
Kurla, Mumbai, 400070

Academic year - 2015-16
Department of Computer Engineering

Experiment No.: 03

- **Title of Experiment** : Construct Data Flow Diagram

- **Year and Semester** : IIIrd Year and Vth Semester

- **Name of the Subject** : Structured and Object Oriented Analysis and Design

- **Group Members Name and Roll No.**
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Objective of Experiment:

To design data flow diagram for **Energy management system**

Theory:
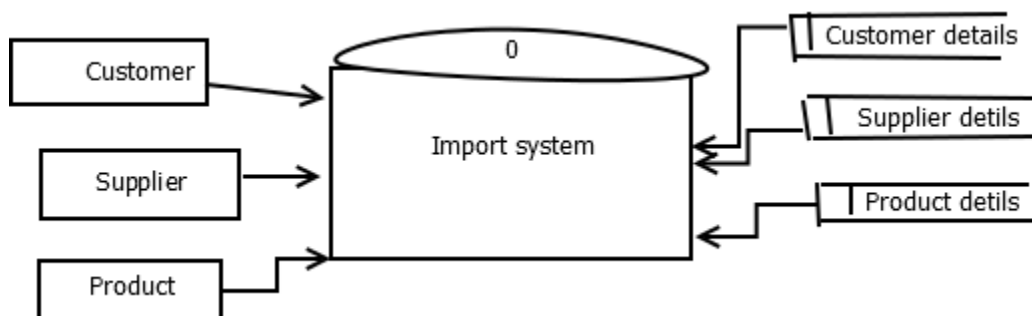
Data Flow Diagram

The Data Flo w Diagram i s a graphi cal rep resentation which depicts t he information regarding the flow of control and the transformation of the data from the input to the output. The DFD may be used to represent the system or software at any level of abstraction. In fact DFD's may be partitioned into levels. A Level 0 DFD ,also called a context model, represents the entire software element as a single bubble with input and output arrows. DFD is a graphical tool used for requirement analysis.DFD depicts information flow without explicit representation procedural logic. DFD also depicts real time systems with the help of some extended notation
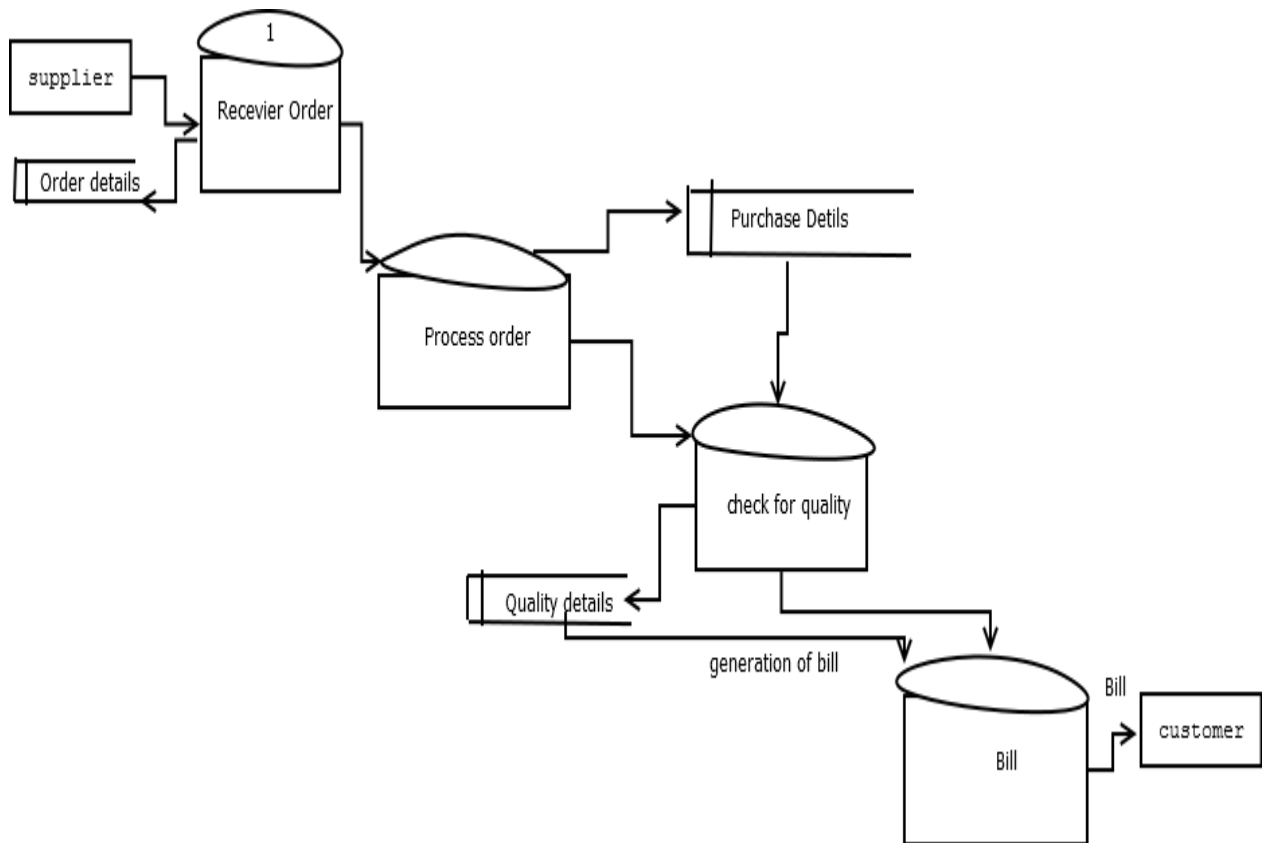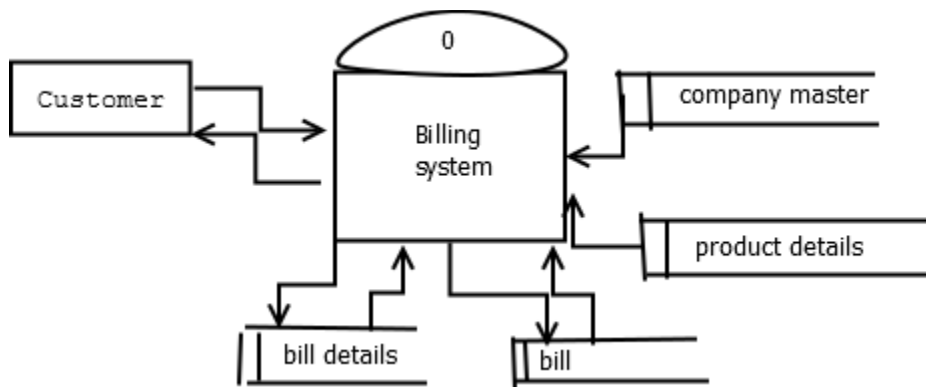
Diagrams:
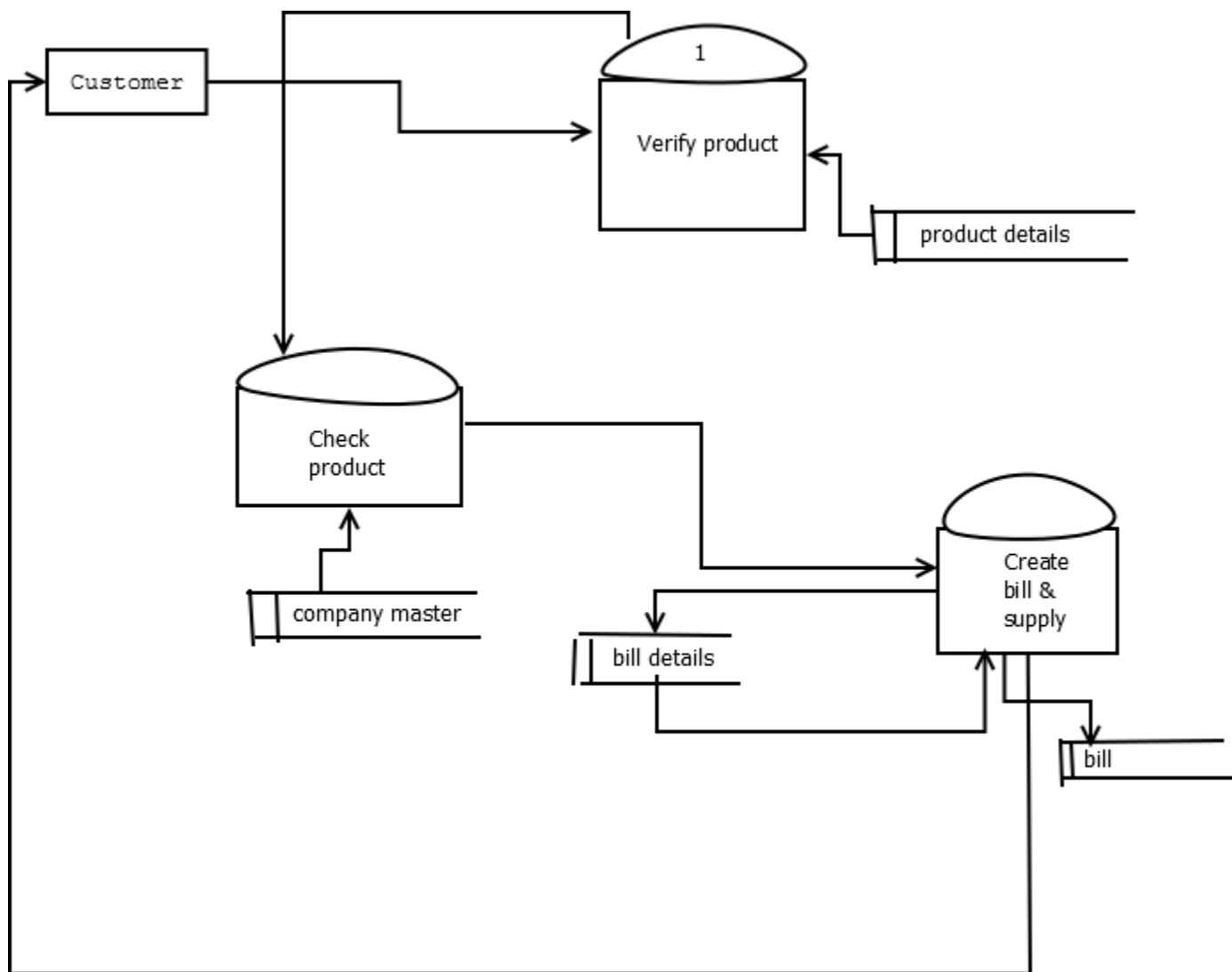
DFD for Import System

Level 0

Level 1

DFD for Billing System

Level 0

Level 1

Customer

1

Verify product

product details

Check product

company master

Create bill & supply

bill details

bill

Description:

Level 0

In level 0 ,there is a customer how will place order for the product .The details of the customer is stored in data base.There is a supplier who will supply the requested product to the customer.The details of the supplier is also stored in database and the product details is also stored in datatbase.

Level 1

In level 1,the customer will place the order,then the supplier will receive the order,after receiving the order supplier will place order i.e it will check for the quality and quantity of the requested product .After that the product will be supplied nd the bill will get generated.

Billing

System:

Level 0

Customer will get the bill for the purchase of electricity or the purchase of materials.In level 0 the details of customer is stored ,bill details and product details is stored.

Level 1

In level 1 customer will verify the product ,after verification request of product is done after the delivery the bill is generated .In this product details ,supplier details ,customer details and billing details are stored

Outcome

With the help of data flow diagram we understood the flow of or system .In

the experiment we have drawn the dfd for billing system and import system .