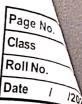
Page No.
Class
Roll No.
Date / /202

Praetical : 02.

Non to Study Data Flour Diagrams.	
Aim :- To Study Data Flow Diagrams.	
W	
Theory:	
One soulding of the restriction flows within a	
A Data Flow Diagram is a traditional Visual representation of the information Flows within a system. It shows how data enters and beares the	
SUSTRILL TO STOWS THOW DIGIT FIRE STORES	
system: what changes the information and where	
data is Stored.	
The Objective of a DFD is to show the Scape	
and boundaries of a System as a whate. It may	
be used as a communication tool between a	
System analyst and any person what plags	
a part in the order that alls as a starting	
point for redesigning a system. The DFD is also	•
System analyst and any person what plays a part in the order that acts as a starting point for redesigning a system. The DFD is also called as a data flow graph or bubble chart.	1 1 1 1
	C d
· Data Flous diagrami process.	
· The data flous diagram process comprises four main Components.	
The data flow diagram process com	
main components.	1
. Cl and Palities - Autside bodies or Systems That	1
either feed or receive the information hering passes	9
	4
The state of the s	\dashv
	<u>joh</u>
a procedure the amountations, logic or Changing	1
e.g through computations, logic, or Changing its direction as it flows through the System.	\dashv
its direction as it flows through the systems	
GCOE, JALO	GAON



Data Storage: A neceptable of information database) data through a process and then data storag Course or information through a System produced.)ata flow [)jagramm Desired Banking System Customer Confirm Credit Card Tumber Confirm Product Confirm details with input customer Customer data really cond Investory Data storage Shipthe product information check order -> details. GCOE, JALGAON 5

	Page	No.	
	Class		
	Roll N	0.	
1///	Date	1	/202

* Standard Symbols For DEDS are herived From
He electric Circuit diagram analysis are known
Me electric circuit arago am chargos are prosession
Symbol Name Function
The state of the s
: lot our planting our strang sounds
1. Dota Flow used to Connect
Process to each
continue of the office of the source
and as have some advanced had mounted on signal; the
arrow head indicate
direction of data flow
2. Ora case
Process performs some
input data to yield
oudput data
· Datatam is a development ?
3. Source of A source of system
perhapites on ansiekolours a relinpires or siek of
manufaction of the state of the
angeller Rush so allocarather mail raidon
4. Data A respository of data
store the armw needs not
met outputs 10
Circules A Circle (buthble) Store and office
Mahamal A Circle (hubble) Bhows 19 procession
that transforms data in puts into data outputs
GCOE, JALGAON

· where to use a data flow diagram ?
la ma a data Florie aray
These are useful across industries, especially These are useful across industries respecially These are useful across industries respecially
Those are useful across
e la la la environments cohere data many
These are useful across industries, especial in tech-driven environments where data management is critical let's took at some common sunarious is critical are particularly useful:
where DFD's are particularly useful:
17:00,000
1/2/
DEDS are especially useful in business OF DE STREET OF
management to streamline. Chookflows and enhance
Operational efficiency
The state of the s
· Software Engineering 3-
DEDS are great for software engineerers
to plan software architecture and continuously improve
System performance.
otto historia
· Database ma development :-
withing to some of the some of
DFDs: play a crucial mole în mapping data
Flow and ensuring robust Cybersecurity measures.
making them in despensable as digital platforms
be come increasingly important for bussiness.
the strong engineers and the
· Types of data Flow Diagrams :-
of distance 1 is
Data Flow diagrams are divided into two main
types hased on the Flour they Visualize ! logical data
Flow diagrams and in husical later Prince 19 10gical data
Flow diagrams and physical data flow diagrams.
GOOL, JALUAG

1) hogical data Now diagram:
Logical data From diagrams focus on the activities. and processes cuithin a hussiness. They show "what"
and processes defining a successful emphasizing the
business's Functions, services provided and goals.
the state of the s
2) Physical data Flour diagram 3-
belief of the second of the se
hussiness systems are implemented in real-world terms.
details the software, hardware and Files Involved in
the process.
at and make the register of the first the second of the se
· Lious to Create a data Flous Piagram.
1. Identify a high-level Overview & Begin Start by
Sorting out your inputs and outputs. Each process you
should have at least one input save
2. Create a high-here Overvieur (Level 1) :- Begin your
diagram with a high-level Overview of the system. This level 0 diagram gives you a broad Context of the system.
level o diagram gives you a proceed to go into more
and helps you account the said said of the contractions of
detail abith more levels. In more have
3. Break down the main functions (Level 1):- break down
11- main Frankans from your bigh-level overvieur into
smaller, more detailed processes. This level & diagram
focuses on specific systems within your business.
•

Page No.
Class
Roll No.
Date / /202

4. Add detail as needed: There's no limit to the number of levels you can add, but keep in mind that your data. Flow diagram should premain easy to understand. · Benefits of data Flow diagrams. i) Clarifies a system's Scope i- Data Flow diagram clearly outline where a system starts and ends this is crucial for defining the scope of a project or system, avoiding misundenstandings and making sure everyone agrees on what's included and excluded. in Improves Communication bet n teams: - By showing data Flore visually DFDs make it easier for system designers, developers of wers to Communicate eleanly. This visual representation helps teams discuss and refine system requirements effectively, helps keep everyone is on the same page. iii Makes Complex Structures easier to understand: Complex dat structures can be hard to understand but data Finus diagrams make things essier to interpret and digest they help teams see how data moves through different Stages of a system or software, making it easier iv) Visualizes logic and abta Flow: - Data Flow diagrams visualize the logical Sequence of how data moves within a system. This level of clarity helps mon-technical stakeholders understand Flowe how inputs get processed to produce Outputs. onclusion :- In this Goay, we Data Flow diagram, its benifits, levels & where it is