



Assignment On

Course Name: System Analysis and Design

Course code: CSI-311

Submitted By

Name: Md. Arif Hossain

Reg: 2219150041

Batch: 15th

Program: B.sc in CSE

Submitted To

Umme Khadiza Tithi Department of CSE/CSIT

Lecturer Victoria University Of Bangladesh

Name: Md. Anif Hossain ID: 2210150041

Program: B.Se In esE

Arrower to the question NO: 1

system design: System designer is the process of designing the anehitecture out components of a software system to meet specific business requirements. The process in rolves defining the system's anehitecure, components, modules, and interfaces, and identifying the technologies and tools that will be used to implement the system.

Difference between system Analysis and System Design:

System Analysis .	System b Design
system analytis is the process of gathering and analyzing information to assess the suitability of a current system and to determine the requirement of	System designm is the process of specifying elements of a system such as modules, anchitecture, components, and their interfaces.
System Analysis focuses on the needs of the user, the current system, and the business	and the components that make up the system.
System Analysis produces the requirements document that describes the desired system	System design produces thedesign document the describes the architecture and components of the system.
System Analysis is a one-time process that occurs at the beginning of the project.	to Decien is an engoing

System Analysis	System, Design
System Analysis is the first Step in the software development process	System Design is the second
System Analysis involes minimal rusk.	System Design involves significant rusk.
System Analysis focuses on problem identification and definition.	System Design focuses on problem - sakin solving and finding solutions.

Answe to the question No! 2

System! The world system is derived from grack word system, which means an organized relationship between any so set of components to achieve some common caus on objective.

Types of system!

- @ Physical on Abstract Systems.
- @ open or closed systems.
- @ Adeptive and Non Adaptive system
- 9 Permanent on Temporary system.
- 6 Natural and Manufactured system. @ Deterministic on probabilistis system.
- @ Social, Human Machine system.
- @ Man-Made Information System.

representation that emphasizes the influences, or flow of information between modules. A systems model describes how processes interact and what operations these processes perform, but it does not go into details as to how free processes are implemented.

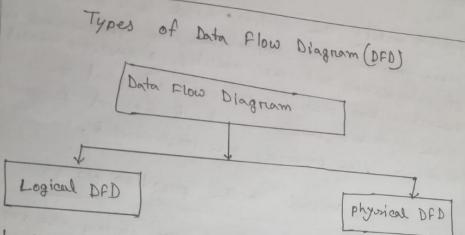
Answer to the question NO:03

Elements: The key elements of any system are impuls, processors, control, feedback, emrinonment, and boundaries interfaces. Inputs are entered into the system for processing, and the processor transforms, inputs into valuable outputs defined by control elements.

DFD: Dota flow diagrams are powerful visual tools representing information flow within systems.

The presenting information flow within systems.

Understanding their types and components is imported important as each type has a different purpose and components hulp in creations an accurate Data Flow Diagram (DFD)



Logical Data Flow Diagram:

Logical dorta flow diagram mainly focuses on the system process. It illustrates how data flow in the system. In the Logical Data Flow Diagram (DFD), we focus on the high-level processes and data flow without delving into the specific implementation details, Logical DFD is used in various organizations for the smooth running of system. Like in a Bombing software system, it is used to describe how data is moved from one entity to mother to describe how data is moved from one entity to mother Physical Data Flow Diagram (DFD) of physical data Flow Physical Data Flow Diagram (DFD) in the system, In the physical Data Flow Diagram (DFD) in the system, In the physical Data Flow Diagram (DFD) in the system, and specific technology on soft system transmission, and specific technology on soft system transmission, and specific technology or soft system components, physical DFD is more, specific and close to implementation.

Answer to the question NO: 4

approach the design of the system. It is called so because it stants from the Bottom on the mest bosic level modules and more towards the highest level modules.

Advantage	Disadvantage
Provides follows when new yorkers Fails offens greatest security and Ultimatety testing of new system.	I causes cart anenums. New system amony not get sain Trail.
Forces users to make new system work immediate benefit from new methods and comtrol.	21 No Fall back it problems arise with new system requires most careful planning
If Allows traning and installation without unnecessary use of resources. Avoid large contingences from his k monetenent.	If A loang term phaseln causes a problem of whethen convension goes well or not.
41 Provides exprience and line test before implemention when preferred new system.	If Gives impression that old system is errone ous and it is not.
A CONTRACTOR OF THE PARTY OF TH	