TYBCA SEM 6 (2022-23)

MENTORIUS
ask any doubts

Group Number	**03**
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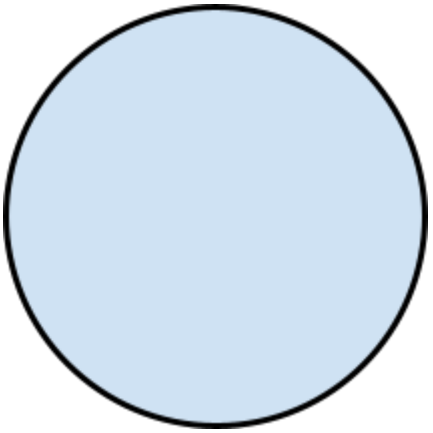
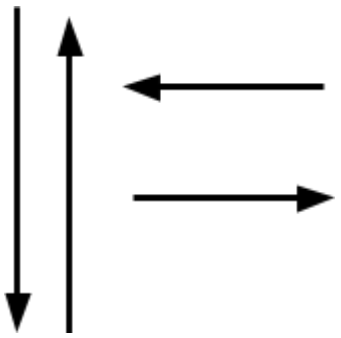
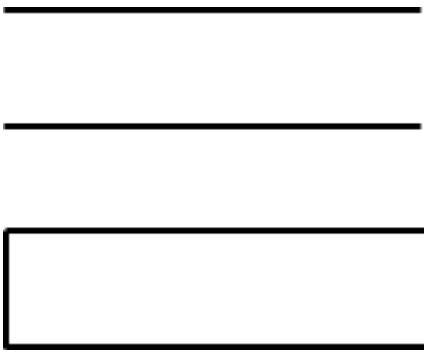
Project Definition	**“Mentorius - ask any doubts!”**

Data Flow Diagram

DFD stands for Data Flow Diagram. It is a graphical representation of a system or process that shows how data flows through different system components. A DFD illustrates the data flow between external entities, processes, data stores, and data flows. It is useful for analyzing, designing, and documenting complex systems or processes. DFD is functionally divided into

1) Zero level
2) First level
3) Second-level

Symbols used in DFD:

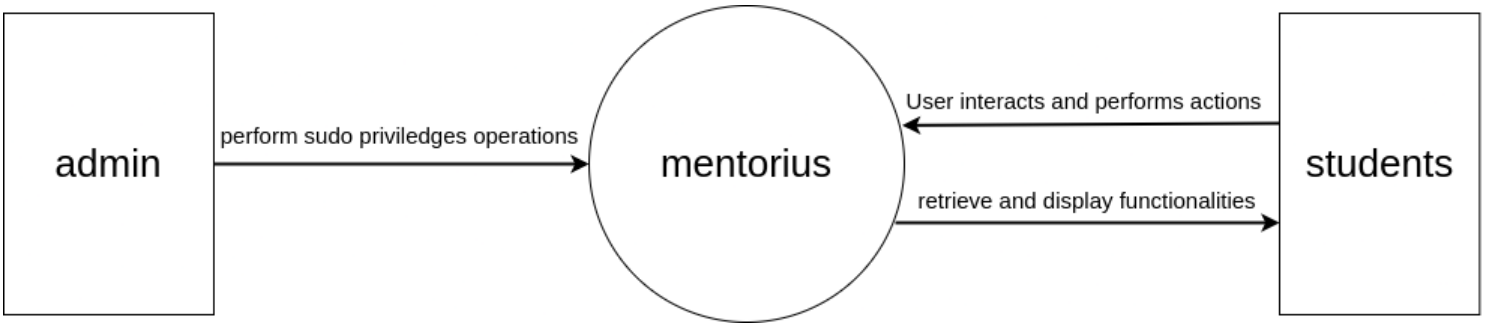
Process: Here flow of data is transformed. E.g., forms distribution, preparing the merit list, etc.	
External entity: A source or destination of data, which is external to the system.	
Data Flow: A packet of data. It may be in the form of a document, letter, etc.	
Data Store: Any stored data but with no reference to the physical method of storing.	

Main Components of Data Flow Diagram:

1. **Inputs:** The data or information that is fed into the system from external sources.
2. **Processes:** The actions or operations that the system performs on the inputs to produce outputs.
3. **Outputs:** The results or outcomes that are generated by the system and sent to external recipients.
4. **Data stores:** The places where the system stores or retrieves data.
5. **Data flows:** The paths that the data takes as it moves through the system's processes and between the external sources and recipients.

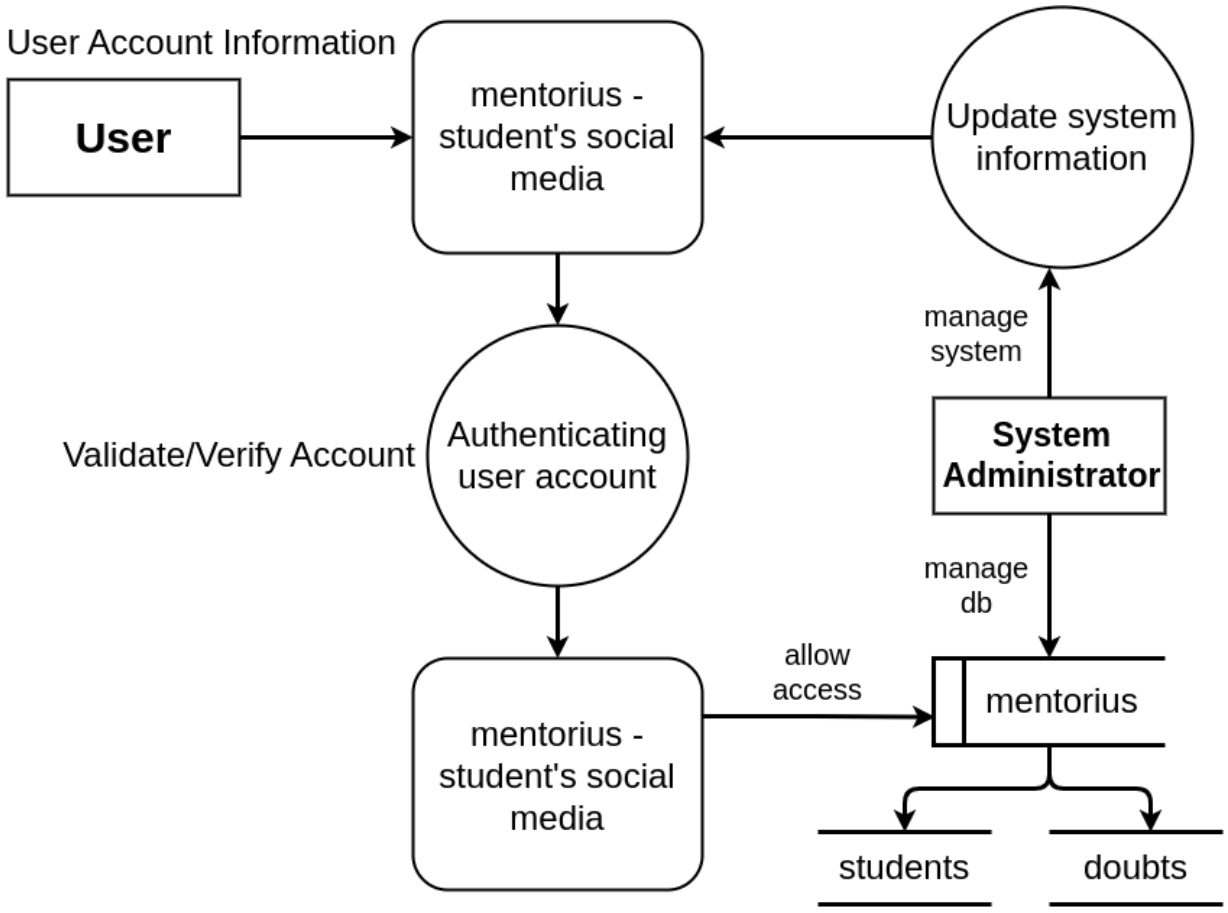
1) Zero-Level DFD

This is the highest level of DFD that provides a basic overview of the system and its boundaries. It shows the overall system as a single process that interacts with external entities.



2) First-Level DFD

This level decomposes the Level 0 DFD into sub-processes, providing a more detailed view of the system. It shows how the external entities interact with the system and the major processes within the system.



3) Second-Level DFD

This level further decomposes the Level 1 DFD into more detailed sub-processes. It shows the inputs, outputs, and data stores of each process.