STRUCTURED ANALYSIS

- *Data modeling*
- *Functional modeling*
- *modeling*

Data modeling

- Entity Relationship diagram
- The various components of an ERD
- Data Dictionary

Data modeling

- Data modeling is an analysis technique that deals with the data processing part of an application.
- Deals with identify and different process that causes transformation to these data.
- Whether it is mandatory to attach an object with the another object type which is called modality.

Entity Relationship Diagram

- The entities are Represent as a rectangle.
- The relationships are represent with the ends representing the cardinality and modality.
- The relationship of the object present in a system are represent graphically thought the ERD

Entity Relationship Diagram

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The various components of an ERD:

- Data object or entities
- Attributes
- Relationship and various indicators

Data Dictionary:

Data dictionary is the place where the description and information about all data objects produced and consumed by the software system is maintained.

Functional modeling

- Data flow Diagram
- Control flow model

Functional modeling

- Functional modeling data flow diagram (DFD).
- Functionality flow is also know as the data flow.

Data flow Diagram:

- Entire system is shown as a process and data are interlinked to each other.
- The four component:
  1. entities
  2. Process
  3. Data stores
  4. Data flow

Control flow model:

- There are system where the flow Is controlled

by events rather than by data.

Behavior modeling

- Object oriented Analysis
- State Transition Diagram (STD)

Behavior modeling

- The type of analysis models which try to capture the change in behaviour of system as an effect of trigger are grouped as the behaviour models.

State Transition Diagram:

- STD represent the system states and events that trigger transition or state change.

Object oriented Analysis:

- The attributes of the objects are repersented by its class the state and the behavior.