Introduction to BPMN - II

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Choreography

- Self contained, represents behavior - *procedural contract* between parties
- Activities in choreographyn are *interactions* represent a set of message exchanges involving two or more participants
- There is *no central controller* or a responsible entity or observer of the process
Conversation

- A conversation (hexagons) An informal description of a collaboration diagram
- Pools (participants) do not contain processes, choreography is also absent
- A conversation is a logical relation of message exchanges

Diagram:

- Faculty Advisor
- Students
- Faculty Members

- Advice
- intimation
- Discussion
- confirmation

MTP Allocation Procedure
Token

- A start event generates a token
- It gets consumed with end event
- A token passes through sequence flows of activities through a process
- A token does not traverse through message flows
  - Only a message is passed down a message flow
- Token path can be traced through sequence flows, gateways, activities within a process
BPMN Elements: Flow Objects

- Events: happens, trigger(cause)-impact(result)

- Activities: work in a process

- Gateways: Divergence and Convergence, i.e. branch, fork, merge, join
BPMN Elements: Events

- **Start Event:** process/choreography starts
- **End Event:** process/choreography terminates
- **Intermediate Event:** not a start or an end event
BPMN Elements: Data

- Data objects
- Data inputs
- Data outputs
- Data collection
- Message
BPMN Elements: Connecting Objects

- **Sequence Flows**: order of activities in a process and in a choreography
- **Message Flows**: between 2 participants (pools in a collaboration)
- **Associations**: links information and artifacts with bpmn graphical elements
- **Data Associations**: showing direction of flow
BPMN Elements: Swimlanes

- **Pool**
  - Carries a process
  - Represents a participant
  - Partitions set of activities
  - It may be shown as a black box in a particular diagram

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BPMN Elements: Swimlanes

- Lanes
  - organize a pool
  - Sub-partition within a process
  - Organize activities
  - Extend over the entire process
Group:
- for documentation purpose grouping objects into categories
- It is not an activity
- It can cross boundaries of pools
- e.g. Certain activities can be grouped and named conveniently
Text Annotation

- Provides additional information specific to object
- Connect to object through association
- Does not affect the flow of process