

Management Information Systems (Spring 2012-2013): Introduction to POIS and BPMN Modeling

Due on Week starting on 09.03.2012

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Sunday: 09:30-11:00 am, 12:34-02:30 pm
Thursday: 08:00-09:30 am*

Dr. Ahmed Hany Awad

This assignment cover the topics discussed in lectures 1-4.

Evolution of IS Architecture

Problem 1

What are value chains? And why are they important when designing business process models?

Problem 2

What are the disadvantages of point-to-point enterprise application integration?

Problem 3

Mark the following statements as either true or false:

- People are a secondary component in computer-based information systems.
- For message-oriented middleware, a link between every pair of systems has to be established.
- At the meta-meta=model level, all modeling languages look the same.
- For workflow management systems, adhoc activities are allowed in general in workflows.
- In BPMN, it is allowed to start the process with an error start event.

BPMN Modeling

Problem 4

Model the following scenario A travel agency wants to establish a booking service. The service is triggered by an incoming request and can return two different messages, either an unavailable notification or a confirmation. The business process of the service starts by first checking the request. If for certain reasons the request can only be handled manually by an employee (e.g. group travels), a sub-process for manual handling is activated. Otherwise, the process enters a transactional sub-process, where a bus and hotel booking occur in parallel. However, if one of these fails, the transaction is canceled, a log message is written and the unavailability message is sent. If both bookings succeed, an attraction is booked by invoking another service. The only thing that could go wrong is a timeout; i.e. the attraction booking service is not responding in time. If this happens, a manual handling of the booking has to be made. If the attraction booking invocation succeeds, a confirmation is sent. The manual handling always results in a successful booking in which case a confirmation message is sent.