



Lab Assignment #1

Business Process Modeling and Simulation

Question 1) Draw Business Process Model for “University Awarding Prizes Process” System.

The following scenario describes the nomination and selection process of academic Prizes winners.

The selection of an academic achievement winners' is a lengthy and carefully executed process. The main actors in the processes for nomination, selection, accepting and receiving the award are the:

- University Awarding Committee,
- Nominators,
- Specially appointed experts,
- University Assembly

Before the Prize is awarded by 3 months, invitations or confidential nomination forms are sent out by the University Awarding Committee to selected Nominators. The Nominators are given the opportunity to nominate one or more Nominees. The completed forms must be made available to the University Awarding Committee for the selection of the preliminary candidates.

The Committee performs a first screening and selects the preliminary candidates. Following this selection, the Committee for may request the assistance of experts. If so, it sends the list with the preliminary candidates to these specially appointed experts with the request to assess the preliminary candidates' work.

From this, the recommended final candidates and associated recommended final works are selected and the Committee writes the reports with recommendations.

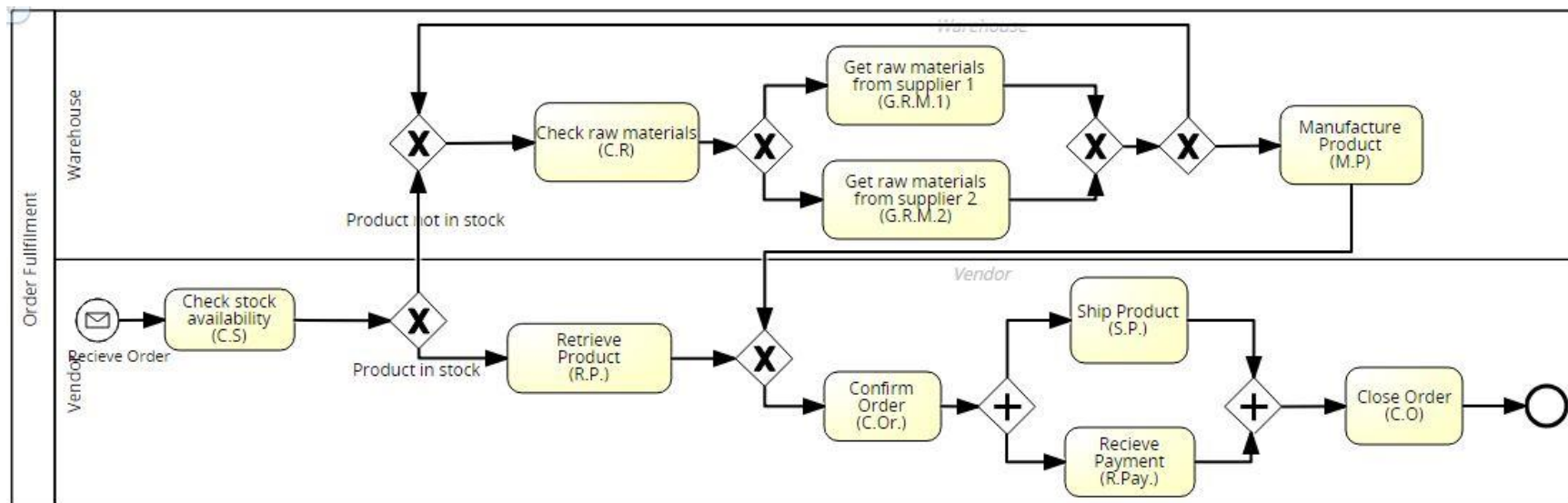
The Committee submits the report with recommendations to the University Assembly. This report contains the list of final candidates and associated works.

The Assembly discusses the nominations through two meetings, one for filtering the recommendations list and one for final voting. After that while the Assembly announce back the final Award Winners to the University Awards Committee, they notify the winners.

The process ends by holding the Awarding ceremony.

Question 2 (Business Process Simulation):

Business process diagram for an order fulfillment scenario:



Consider the following data for the order fulfillment activities:

Activity processing times:

Check Stock availability: 10 mins

Check raw materials: 1 hour

Get raw materials from supplier 1: 2 hours

Get raw materials from supplier 2: 2.5 hours

Manufacture Product: 5 hours

Retrieve Product: 1.5 hours

Confirm Order: 5 mins

Ship Product : 3 hours

Receive Payment: 1 hour

Close Oder: 2 mins.

Cost: Staff member: 30 €/hour

a) Calculate path product is in stock; for **both in time and cost.**

b) Calculate path product is not in stock; in case the loop run one time and get raw materials for supplier 1 activity; **for both in time and cost**