

# PRAKTIKUM 07: PENERAPAN BPMN DALAM TRANSACTION PROCESSING SYSTEM (TPS)

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## TUJUAN PEMBELAJARAN

Mahasiswa dapat menggunakan dan mengaplikasikan BPMN 2.0.2 dalam pemodelan proses bisnis sistem Informasi manajemen

Mahasiswa dapat menerapkan notasi dan elemen BPMN 2.0.2

Mahasiswa dapat menerapkan notasi dan elemen BPMN dalam *Transaction Processing System (TPS)*

## REFERENSI

<https://www.omg.org/bpmn/index.htm> (khusus BPMN)

<https://www.omg.org/spec/BPMN> (spesifikasi BPMN)

<http://www.computerbusinessresearch.com/Home/decision-making/transaction-processing-system>

<https://www.slideserve.com/aren/transaction-processing-system-tps>

[https://www.researchgate.net/figure/Simplified-pharmaceutical-supply-chain-modelled-as-a-BPMN-collaboration-diagram\\_fig1\\_326061104](https://www.researchgate.net/figure/Simplified-pharmaceutical-supply-chain-modelled-as-a-BPMN-collaboration-diagram_fig1_326061104)

## MATERI

### Pengertian TPS

Transaction processing is a way of computing that divides work into individual, indivisible operations, called transactions. A transaction processing system (TPS) is a software system, or software/hardware combination, that supports transaction processing. (Wikipedia)

### Tujuan TPS

- Keep records about the state of the organization
- To process transactions that affect the records

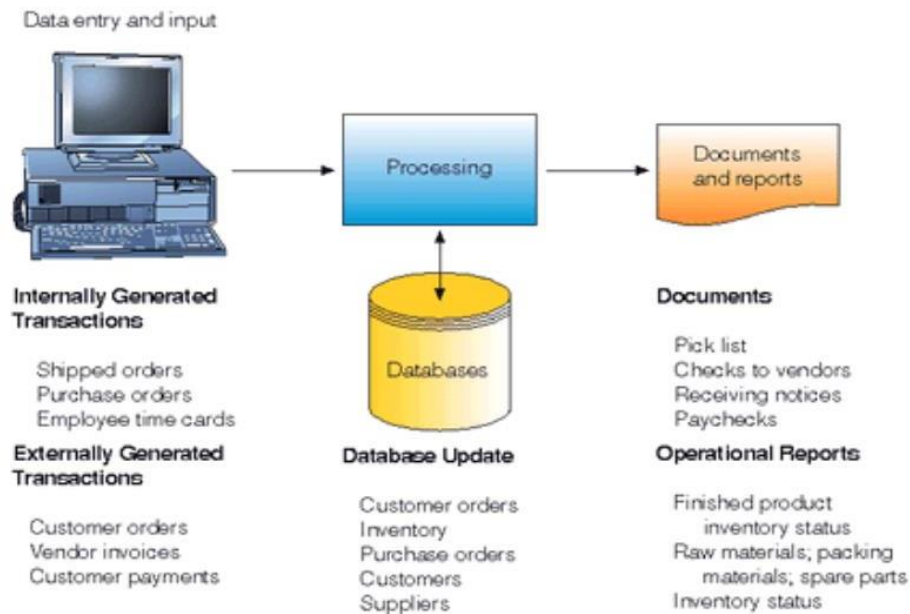
- To produce output that reports on transaction that have occurred

### Tipe TPS

Batch processing: Processes several transactions at the same time, with a time delay.

Real-time processing: Deals with one transaction at a time and does not have a time delay.

## Transaction Processing Systems



**FIGURE 9-4**

*A Simplified Overview of a Transaction Processing System*

### DRAWING TOOL

Bonitasoft <https://www.bonitasoft.com/downloads>

Bizagi Modeler <https://www.bizagi.com/en/platform/modeler>

atau menggunakan drawing tool yang sudah terinstall dilaptop masing-masing.

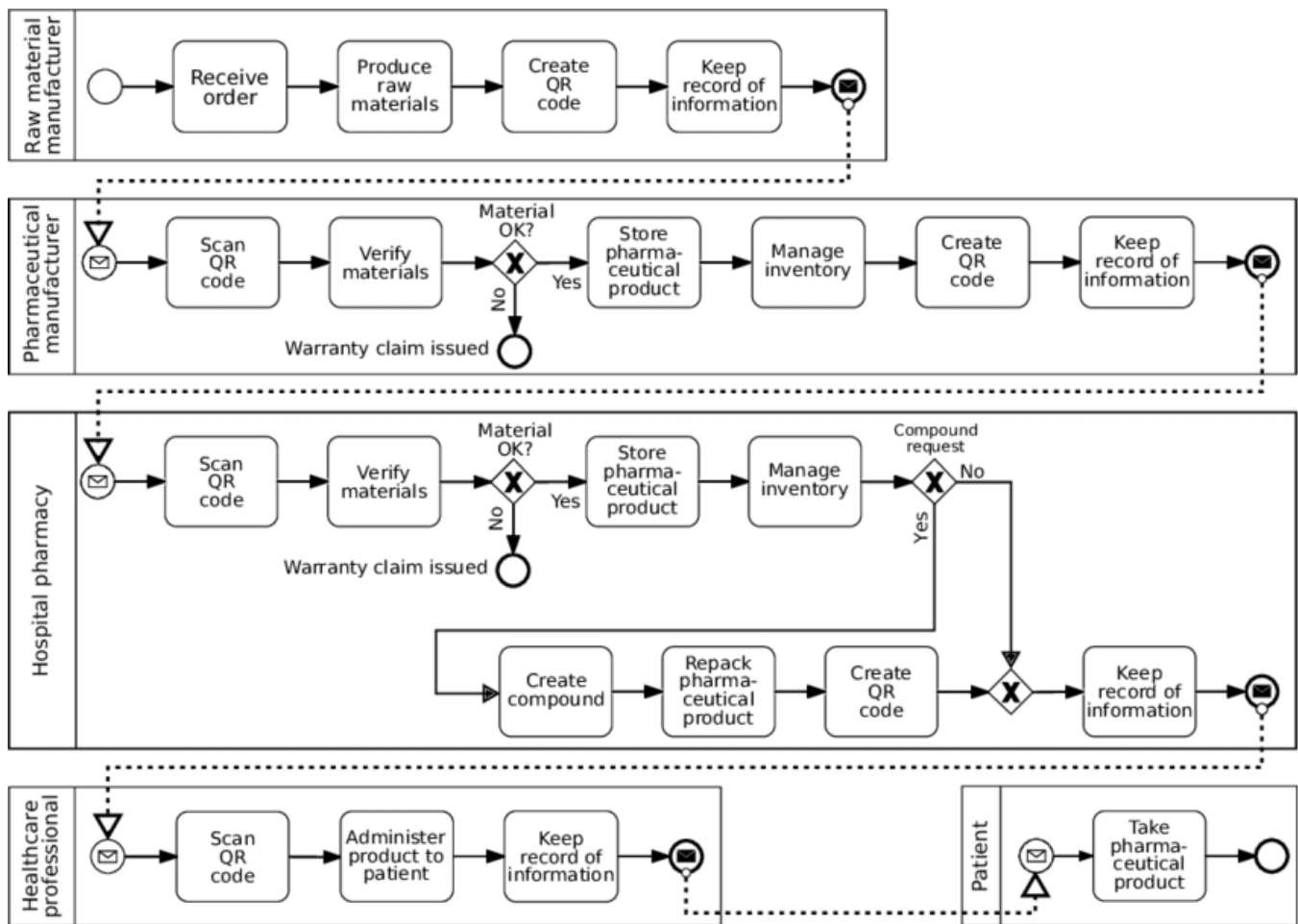
### PRAKTIKUM

#### Note:

Cek penggunaan notasi dan elemen BPMN yang benar di link berikut:

[https://training-course-material.com/training/BPMN\\_2.0\\_Analysts](https://training-course-material.com/training/BPMN_2.0_Analysts)

Diagram BPMN dibawah ini adalah contoh proses transaksi *supply chain* di bidang farmasi.

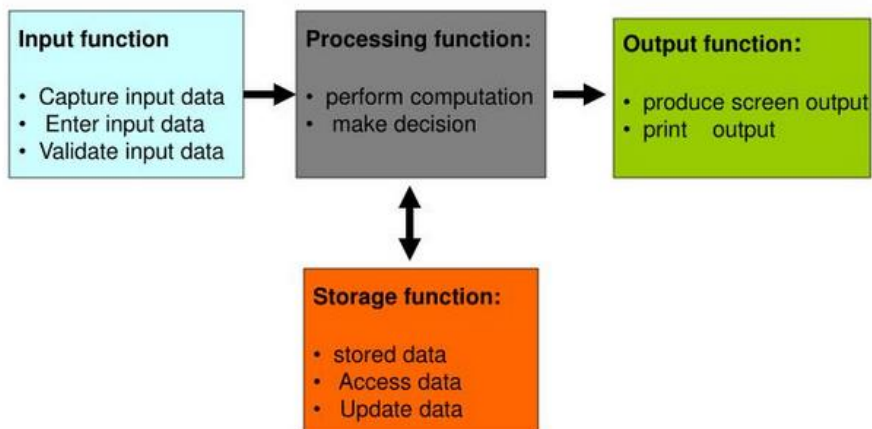


Simplified pharmaceutical supply chain modelled as a BPMN collaboration diagram.

## TUGAS

Buatlah laporan praktikum yang berisi:

1. Buatlah contoh proses bisnis Transaction Processing System menggunakan BPMN dan narasikan terlebih dahulu prosesnya mengacu pada gambar *TPS Function* berikut:



2. Jelaskan notasi dan elemen BPMN yang digunakan (*flow objects, data, connection objects, swimlanes, artifacts*)

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