



# BPMN IMPLEMENTATION OF THE USERS LIFE CYCLE PROCESS

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#### Introduction

- Target of this project is to demonstrate the advantages of a BPMN Engine in the enterprise to carry on and track most of the repetitive tasks and processes happening in the organization.
- Model the interaction between the involved groups of people, including information moving between them.







### **Model implementation**

- Each model is a **maven project**, it has been generating by Maven **archetype**, each class implement the java **interface** *JavaDelegate*.
- Message correlation has been implemented using Java class inside the model.
- Each message correlation has been implemented using a different java class and message id.
- We automatized some tasks that was previously manually executed, so for this reason we have replaced some user tasks with service task.







## **Model implementation**

- Each worker is a **maven project**, and it has been implemented using *camunda-external-task-client* dependency.
- Service task has been implemented as external task; we used a mock code to simulate the token flow inside the model.
- Each external worker **prints a message into the log** to verify that **message correlation** works properly; each client **subscribes** a specific **topic**.
- In the future it will be possible replace each implementation with real implementation of the service.







### **Model implementation**

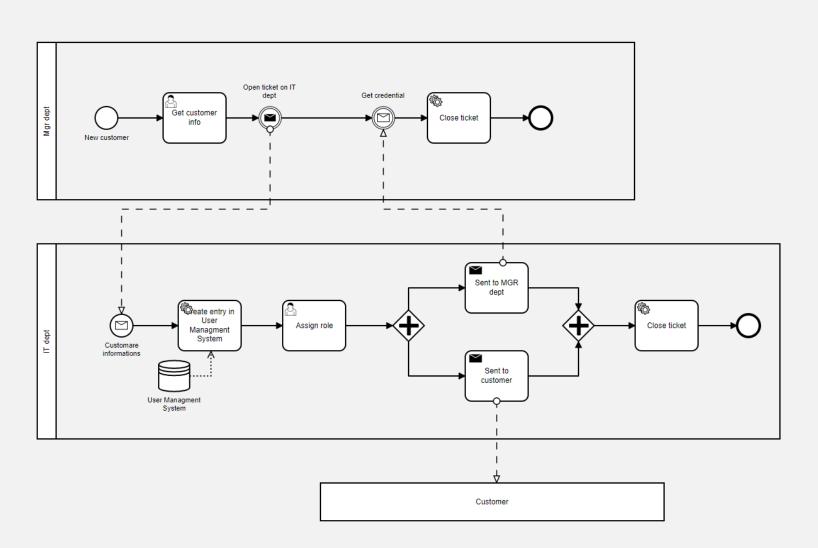
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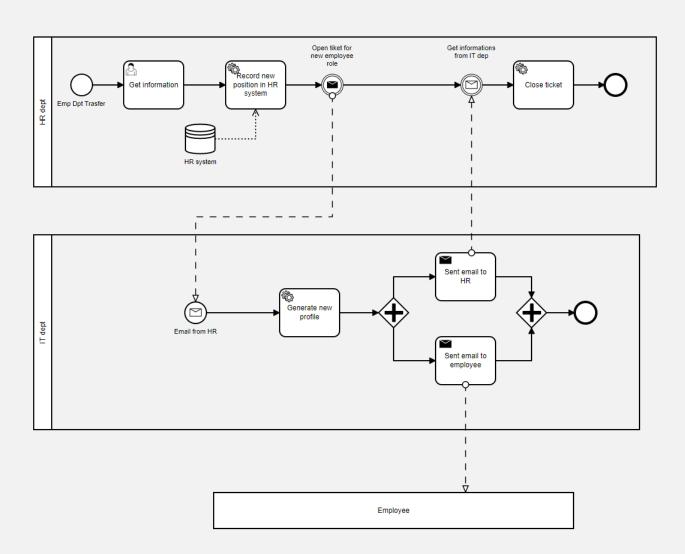
#### **Customer**







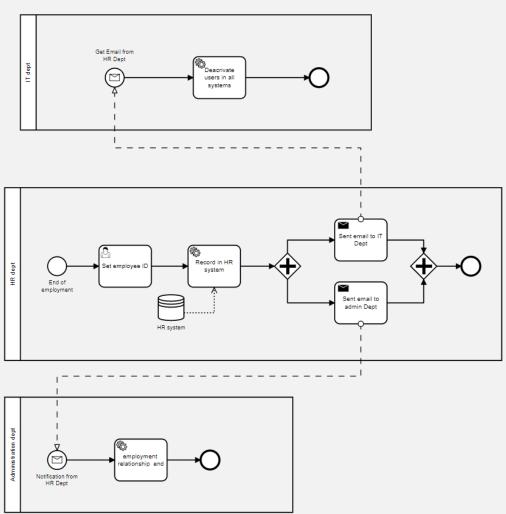
# **Employee transfert**







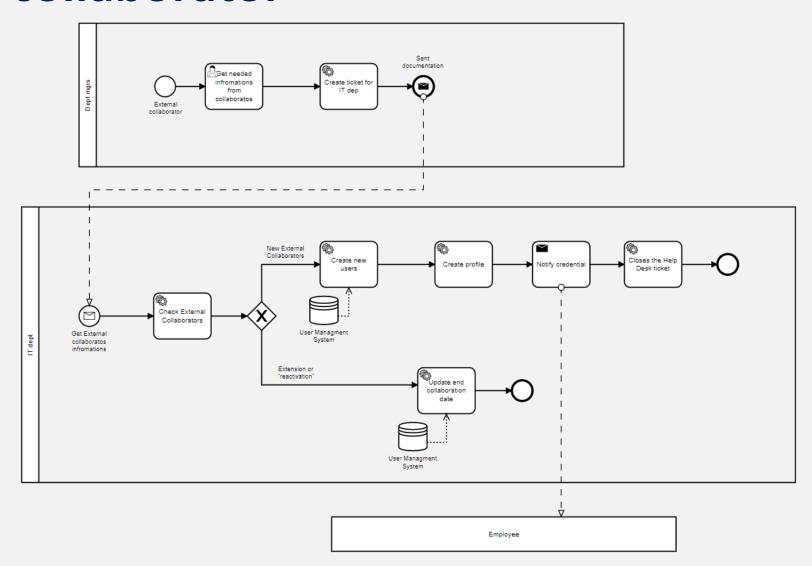
# **End employment**







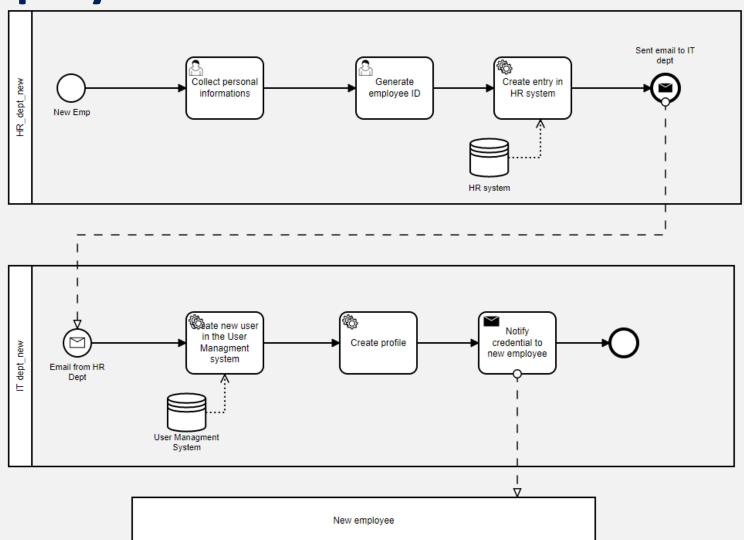
### **External collaborator**







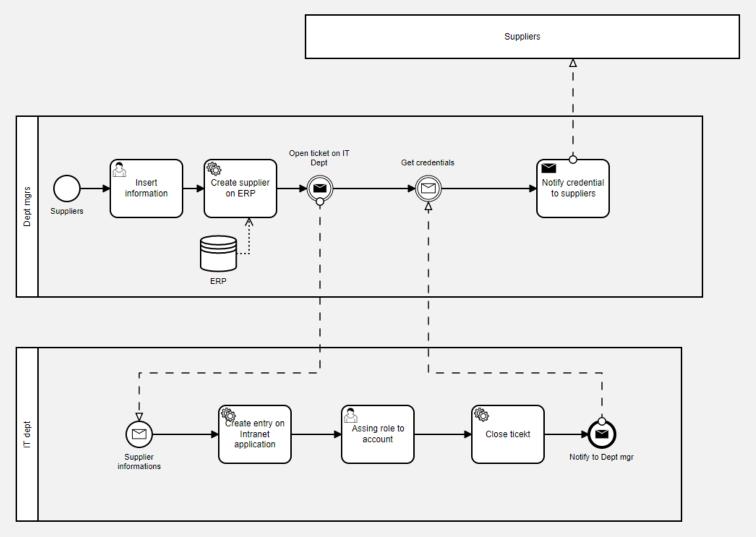
# New employee







# **Suppliers**







### **Conclusions and future developments**

- Thanks to this project we had the opportunity to make practice of Camunda modelling into a real case, provided by Loccioni Group.
- We designed the model choosing appropriately the different component and implementation strategy depending by each of this.
- We have also provided some kinds of optimizations replacing some user's tasks with service task.







#### **THANKS FOR YOUR ATTENTION!**