

## Web Engineering - Assignment 4

Team: papa

Members:

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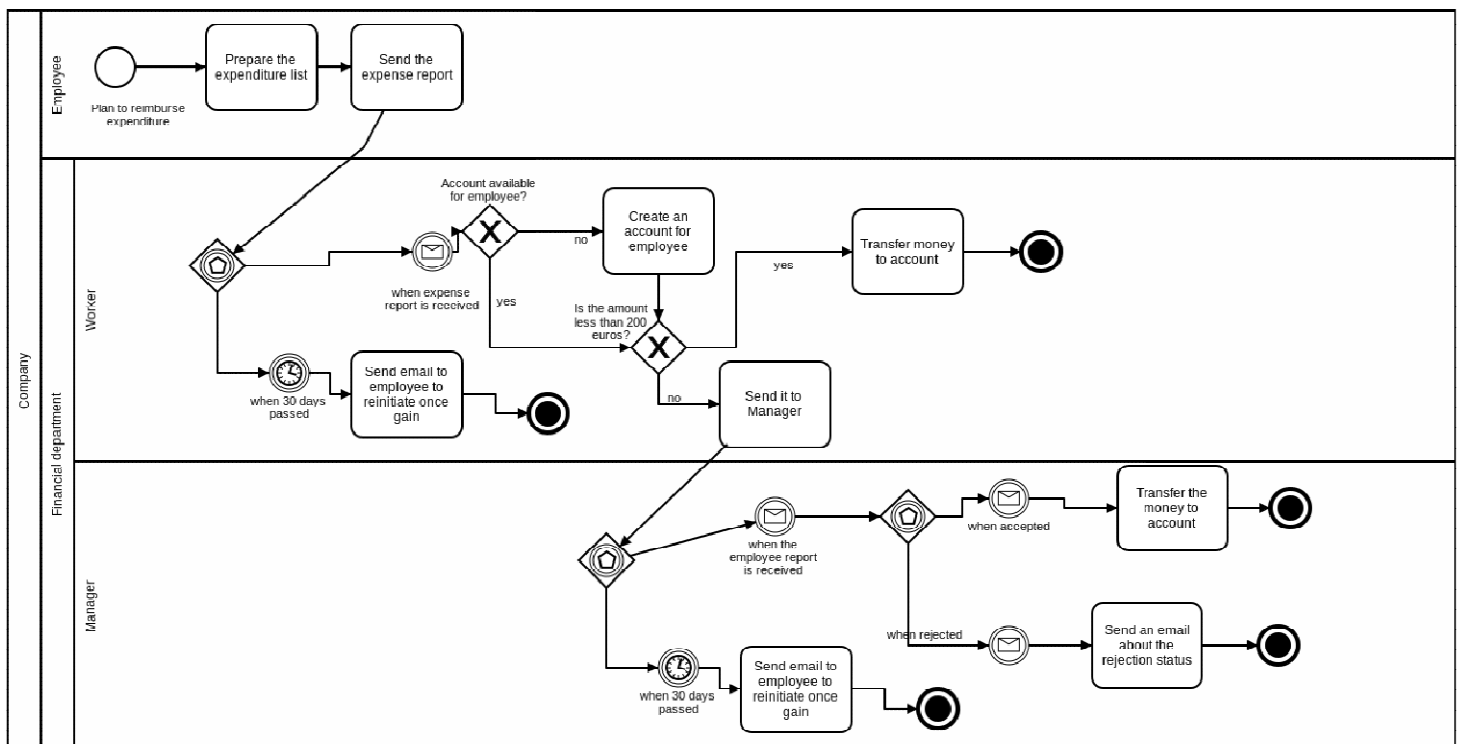
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### Exercise 1: Text to BPMN

1. Once an expense report is received by financial department, an account must be created for the employee if one does not exist.
2. Expenses below 200 euro do not need the approval of the financial department manager, and are directly transferred to the account of the employee.
3. Expenses higher than 200 euro must be first approved by the financial department manager, and in case of approval, the expenses are transferred to the account of the employee.
4. If a request higher than 200 euro is rejected because it is not approved by the financial department manager, the employee must be informed about the rejection by Email.
5. If a request is open more than 30 days, the process should be stopped, and the employee should be informed that a new request is necessary.



### Exercise 2: BPMN to BPEL

```
1 <process name="SayHelloLang">
2
3   <processLinks>
4     <processLink name="client" partnerLinkType="clientRequest"/>
5     <processLink name="default" partnerLinkType="selectDefaultDatabase"/>
6     <processLink name="french" partnerLinkType="selectFrenchDatabase"/>
7     <processLink name="spanish" partnerLinkType="selectFrenchDatabase"/>
8   </processLinks>
9
10  <variables>
11    <variable name="languageDatabaseRequest">
12    <variable name="languageDatabaseResponse">
13    <variable name="processedLanguageDatabaseResponse">
14  </variables>
15
16  <sequence>
17
18    <receive partnerLink="client" operation="selectLanguage"
19      variable="languageDatabaseRequest" createInstance="yes" />
20
21    <switch>
22      <case condition="English">
23        <invoke name="defaultDatabase" partnerLink="default"
24          operation="requestDefaultDatabase"
25          inputVariable="languageDatabaseRequest"
26          outputVariable="languageDatabaseResponse"/>
27      </case>
28      <case condition="French">
29        <invoke name="frenchDatabase" partnerLink="french"
30          operation="requestFrenchDatabase"
31          inputVariable="languageDatabaseRequest"
32          outputVariable="languageDatabaseResponse"/>
33      </case>
34      <case condition="Spanish">
35        <invoke name="spanishDatabase" partnerLink="spanish"
36          operation="requestSpanishDatabase"
37          inputVariable="languageDatabaseRequest"
38          outputVariable="languageDatabaseResponse"/>
39      </case>
40    </switch>
41
42    <invoke name="databaseResults" operation="receiveDatabaseResults"
43      outputVariable="languageDatabaseResponse"/>
44
45    <invoke name="process" operation="processData"
46      inputVariable="languageDatabaseResponse"
47      outputVariable="processedLanguageDatabaseResponse"/>
48
49    <reply partnerLink="client" operation="selectLanguage"
50      variable="processedLanguageDatabaseResponse"/>
51  </sequence>
52</process>
```