



UNIVERSITÄT  
KOBLENZ · LANDAU

## **Business Process Management**

### **Exercise 3**

#### **Group 04**

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**TOTAL: 5,5/10**

## Exercise 3

### Task 1 1/4

Analysis and extraction of phrase structures in model is completely missing (-3)

**Minimal/Restricted Standardized Phrase Structure :**

Event	<noun, singular><verb, past participle><noun, compound>
Function	<verb, infinitive><noun, singular><noun, plural>
Event	<verb, gerund><noun, compound><verb, past participle>
Event	<verb, gerund><noun, singular><verb, past participle>
Function	<verb, infinitive><noun, singular><noun, compound>
Function	<verb, infinitive><noun, singular>
Function	<verb, infinitive><noun, singular><verb, past participle>
Event	<noun, compound><verb, past participle>

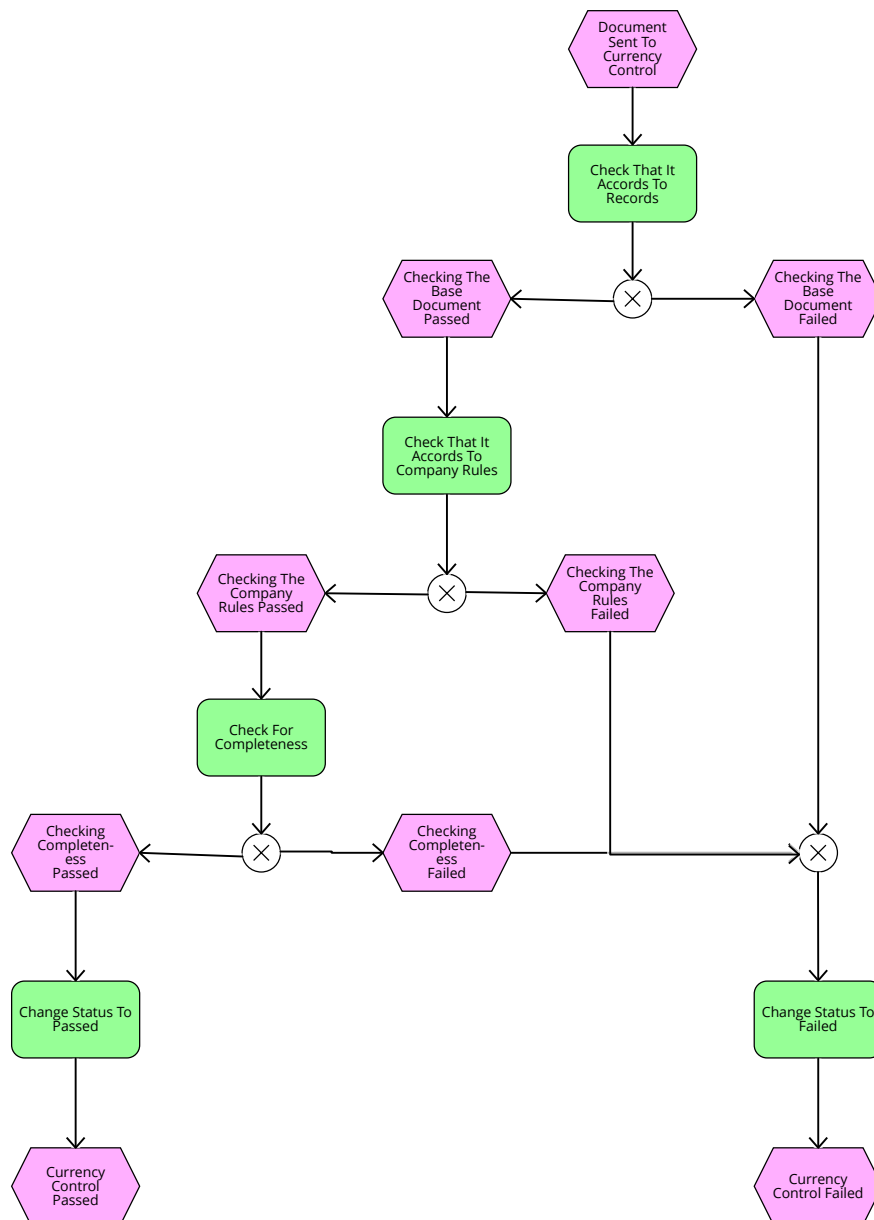
### Task 2 1,5/2

**Minimal Domain Thesaurus**

Omitted terms are not documented (-0,25)

Noun	Verb	Synonym	Dominant Synonym
Document	-	Doc	Document
-	Send	-	-
Currency	-	-	-
Control	-	-	-
-	Check	Verification	Check
Accordance	-	Accords	Accords
Record	-	-	-
Base	-	-	-
Doc	-	Document	Document
-	Pass	-	-
-	Fail	-	-
Accords	-	Accordance	Accords
Company	-	-	-
Rule	-	-	-
Completeness	-	-	-
-	Change	-	-
Status	-	-	-

Accords and Accordance are not synonyms, they're different word types (noun vs. verb) (-0,25)



You cannot use prepositions if they are not part of your standardized phrase structures (-0,25)

### Task 3 1/2

Verification of completeness failed	<verb, gerund><noun, singular><verb, past participle>
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Checking completeness failed	<verb, gerund><noun, compound><verb, past participle>
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Here the term “Verification” does not follow the phrase structure since it is the infinitive verb so here we replace the word “Verification” by its synonym(as defined in domain thesaurus) “Check” and since we have to place the gerund verb according to the structure so we will write here “Checking”.

too superficial (-0,75)

### Task 4 2/2

A. Model will find wrong synonyms of the verb if it detect it as noun. Suppose if it detect “Check” as noun, it does not have synonyms but the verb “Check” has many. It may cause problem when we have to replace the verb “Check” with the dominant synonym of it. Since the verb is detected as noun, it will not get replaced.

B. The construction of suggestions will become difficult since because model will not find proper synonyms, forms(gerund, past participle, plural etc) of noun or verb hence most of the time the final suggestions might not make sense in general or in the context of process.

C. A set of rules could be defined manually via coding. Lets take an example of word “Check” used as noun(“I will write you a check”) and verb(“I will check the address”). Now we can form a rule if the word preceded or succeeded by the word “Write” then it should be detected as noun and it will be automatically get applied to any function or event having address and check together. Same process goes for verb, Form a rule that “Check” will be detected as verb if it is preceded or succeeded by “address”. Though, setting rules for each possibility is a hectic and time consuming task but still it is an improvement over current scenario.