

 $Lab\ for\ Software\ Engineering$

Cinema Management Application

Student 1 (1234567) Student 2 (1234567) Student 3 (1234567) Student 4 (1234567) Student 5 (1234567)

Student 6 (1234567)

October 19, 2022

Date: Mo. 10-12- Supervisor: Mustermensch

Contents

1	Analysis					
	1.1	A1				
		1.1.1 Requirements & Domain-Knowledge iv				
		1.1.2 Contextdiagram				
	1.2	A2				
	1.3	A3				
	1.4	A4				
	1.5	A5				
	1.6	A6				
2	Des	ign				
	2.1	D1				
	2.2	D2				
	2.3	D3				
	2.4	D4				
3	lmp	lementation & Testing x				
	3.1	I				
	3.2	T1				
	3.3	T2				
	3.4	Т3				
4	Glos	ssary xi				

List of Figures

Contextdiagram	
Problemdiagram for R1	

1 Analysis

1.1 A1

1.1.1 Requirements & Domain-Knowledge

Requirements

R1 First...

R2 Second...

Facts

F1 First...

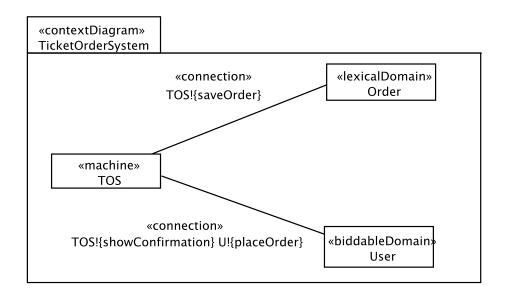
F2 Second...

Assumptions

A1 First...

A2 Second...

1.1.2 Contextdiagram



 $Figure\ 1.1:\ Context diagram$

1.2 A2

We can derive the following problem diagrams

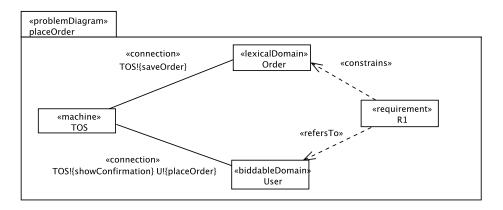


Figure 1.2: Problemdiagram for R1

1.3 A3

1.4 A4

1.5 A5

A short OCL example:

```
context Person inv: self.alter >=0
pre alter>30
post alter=alter@pre+1
```

1.6 A6

Examples of a life-cycle using the math-environment: $LC_{guest} = (Browse^+; [Book])^*$

2 Design

- 2.1 D1
- 2.2 D2
- 2.3 D3
- 2.4 D4

State diagrams with tikZ:

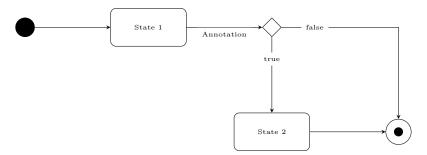


Figure 2.1: Zustandsdiagramm Person 1

3 Implementation & Testing

- 3.1 I
- 3.2 T1
- 3.3 T2
- 3.4 T3

4 Glossary

Table 4.1: Glossary

Name	Type	Description	Source
A	Type	Description	Source
Anton	biddable Domain	User of the system	Contextdiagram
B	biddable Domain	User of the system	Contextdiagram
ь			
C			
C			
D			
Ъ			
E			
F			
r ·			
G			
- G			
H			
11			
I			
-			
J			
<u> </u>			
K			
L			
_			
M			
N			
O	<u> </u>	I	
P	ı	1	I
Q	1	1	1
-			
R		1	ı
S		1	1
Stakeholder	biddable Domain	User of the system	contextdiagram
T	ı	·	~
TOS	machine Domain	Software	contextdiagram
U	I	1	~

Table 4.1: Glossar

Name	Type	Description	Source
User	biddable Domain	User of the system	contextdiagram
V			
\mathbf{W}			
X			
Y			
\mathbf{Z}	·	·	