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MyProjectName: Your Title Messip Analysis Document - v 0.0 -

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6 LISTINGS

Introduction

- 1.1 Overview
- 1.2 Purpose and recipients of the document
- 1.3 Application Domain
- 1.4 Definitions, acronyms and abbreviations
- 1.5 Document structure

General Description

2.1 Domain Stakeholders

2.2 System's Actors

The objective of this section is not to provide the full requirement elicitation document in this section but to reuse a part of this document to provide a informal introduction to the \mathfrak{Messlp} specification of the system under development. The use case model is made of a use case diagrams modelling abstractly and informally the actors and their use cases together with a set of use cases descriptions. In addition, those diagrams and description tables are adapted to the \mathfrak{Messlp} specification since actor and messages names together with parameters are partly adapted to be consistent with the specification identifiers (see [?] for more details).

2.3 Use Cases Model

This section contains the use cases elicited during the requirements elicitation phase. The use cases are textually described as suggested by the \mathfrak{Messip} method and inspired by the standard Cokburn template [?].

2.3.1 Use Cases

2.3.1.1 usergoal-ugSecurelyUseSystem

Figure 2.1 the actAdministrators goal is to follow an identification procedure to be allowed to add or delete the necessary crisis coordinators that will be granted the responsibility to handle alerts and crisis.

2.3.1.2 subfunction-oeSetCrisisHandler

Figure 2.2 goal is to declare himself as been the handler of a crisis having the specified id

2.3.1.3 subfunction-oeSollicitateCrisisHandling

Figure 2.3 the actActivators goal is to decrease the number of unhandled crisis

2.3. USE CASES MODEL

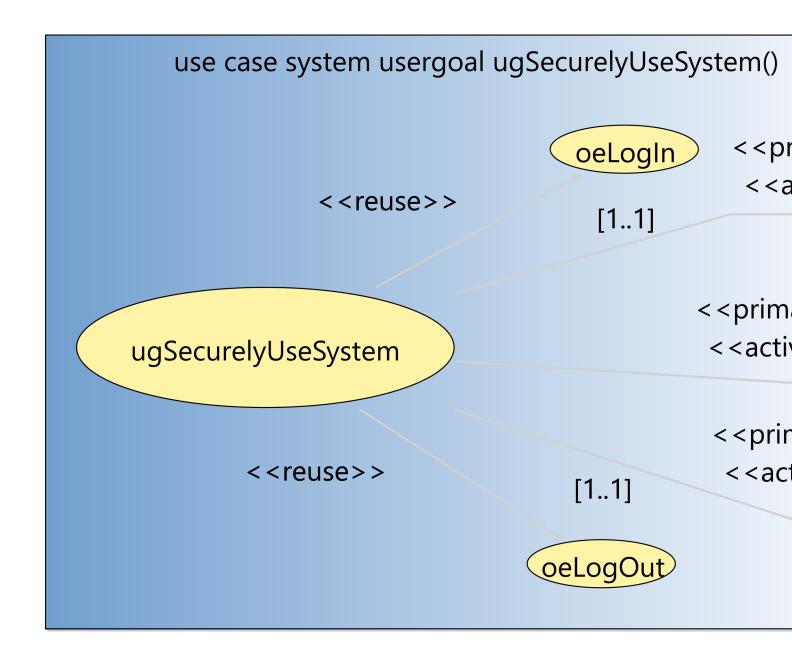


Figure 2.1:

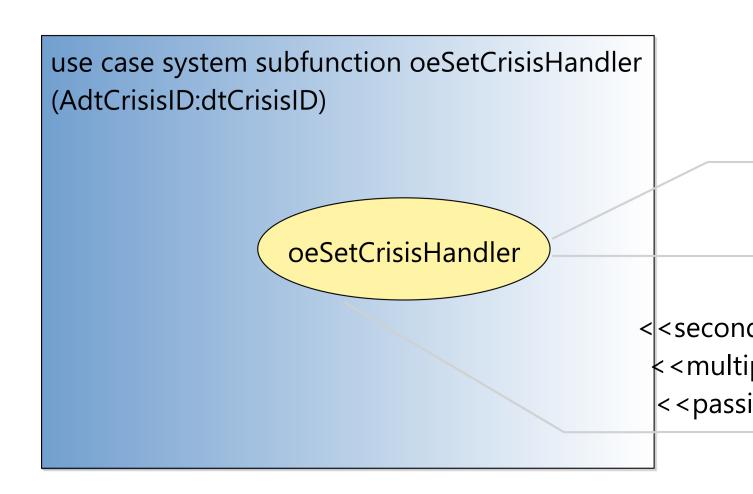


Figure 2.2:

2.3. USE CASES MODEL

13

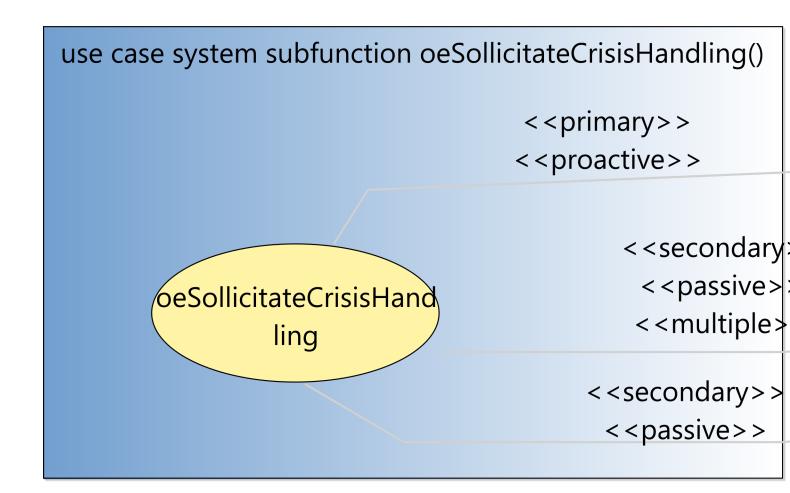


Figure 2.3:

2.3.2 Use Case Instance(s)

Environment Model

3.1 Environment model view(s)

There are no view(s) for the $\mathfrak{Messl}{\mathfrak p}$ environment model.

3.2 Actors and Interfaces Descriptions

Concept Model

4.1 Concept Model view(s)

There are no view(s) for the **Messi p** concept model.

4.2 Concept Model Types Descriptions

This section provides the textual descriptions of all the types defined in the concept model and that can be part of the graphical views provided.

4.2.1 Primary types - Class types descriptions

There are no elements in this category in the system analysed.

4.2.2 Primary types - Datatypes types descriptions

There are no elements in this category in the system analysed.

4.2.3 Primary types - Association types descriptions

There are no association types for the primary types.

4.2.4 Primary types - Aggregation types descriptions

There are no aggregation types for the primary types.

4.2.4.1 Primary types - Composition types descriptions

There are no composition types for the primary types.

4.2.5 Secondary types - Class types descriptions

There are no elements in this category in the system analysed.

4.2.6 Secondary types - Datatypes types descriptions

4.2.7 Secondary types - Association types descriptions

There are no association types for the secondary types.

4.2.8 Secondary types - Aggregation types descriptions

There are no aggregation types for the secondary types.

4.2.9 Secondary types - Composition types descriptions

There are no composition types for the secondary types.

Operation Model

This section contains the operation schemes of each operation defined in either an actor, its output interface, in a primary or secondary type (class, datatype or enumeration types). The \mathfrak{Messip} OCL code listing is joined to the comment table.

5.1 Environment - Out Interface Operation Schemes

There are no elements in this category in the system analysed.

5.2 Environment - Actor Operation Schemes

There are no elements in this category in the system analysed.

5.3 Primary Types - Operation Schemes for Classes

There are no elements in this category in the system analysed.

5.4 Primary Types - Operation Schemes for Datatypes

There are no elements in this category in the system analysed.

5.5 Primary Types - Operation Schemes for Enumerations

There are no elements in this category in the system analysed.

5.6 Secondary Types - Operation Schemes for Classes

There are no elements in this category in the system analysed.

5.7 Secondary Types - Operation Schemes for Datatypes

5.8 Secondary Types - Operation Schemes for Enumerations

Test Model(s)

Additional Constraints

Appendix A

Undocumented Messir Specification Elements

A.1 Undocumented Use Cases

A.1.1 Undocumented User-Goal Level Use Cases

• lu.uni.lassy.excalibur.myproject.usecases.ugSecurelyUseSystem

A.1.2 Undocumented Subfunction Level Use Cases

- lu.uni.lassy.excalibur.myproject.usecases.oeLogIn
- lu.uni.lassy.excalibur.myproject.usecases.oeLogOut
- lu.uni.lassy.excalibur.myproject.usecases.oeSetCrisisHandler
- lu.uni.lassy.excalibur.myproject.usecases.oeSollicitateCrisisHandling

A.2 Undocumented Use Case Instances

A.2.1 Undocumented Subfunction Level Use Case Instances

• usecases.ucioeSetCrisisHandler.ucioeSetCrisisHandler

A.3 Undocumented Actors

- lu.uni.lassy.excalibur.myproject.environment.actActivator
- $\bullet \;\; lu.uni.lassy.excalibur.myproject.environment.act Administrator$
- lu.uni.lassy.excalibur.myproject.environment.actAuthenticated
- lu.uni.lassy.excalibur.myproject.environment.actComCompany
- $\bullet \;\; lu.uni.lassy.excalibur.myproject.environment.act Coordinator$

A.4 Undocumented Primary Types

A.4.1 Undocumented Primary Classe Types

 $\bullet \ \ lu.uni.lassy.excalibur.myproject.concepts.primarytypes.classes.ctState$

A.4.2 Undocumented Primary Datatype Types

 $\bullet \;\; lu.uni.lassy.excalibur.myproject.concepts.primarytypes.datatypes.dtCrisisID$

Appendix B

Messir Specification Files Listing

B.1 File ./src-gen/messir-spec/.views.msr

```
1 //
2 //DON'T TOUCH THIS FILE !!!
3 //
4 package uuida8771819043e49claf2cl5cdldle9b9f {
5 Concept Model {}
6 }
```

Listing B.1: Messir Spec. file .views.msr.

B.2 File ./src-gen/messir-spec/environment/environment.msr

```
1 / *
2 * @author Nikita
3 * @date Fri Feb 10 14:29:46 MSK 2017
6 package lu.uni.lassy.excalibur.myproject.environment {
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 Environment Model {
15 actor actComCompany role rnactComCompany cardinality[0 .. *] {
     input interface inactComCompany {
16
17
     output interface outactComCompany {
18
19
20
21 actor actCoordinator role rnactCoordinator cardinality[0 .. *] {
22
     input interface inactCoordinator {
23
     output interface outactCoordinator {
24
25
26
27 actor actActivator role rnactActivator cardinality[0 .. *] {
     input interface inactActivator {
28
29
     output interface outactActivator {
30
31
32
33 actor actAdministrator role rnactAdministrator cardinality[0 .. *] {
34
     input interface inactAdministrator {
35
     output interface outactAdministrator {
```

```
37   }
38   }
39   actor actAuthenticated role rnactAuthenticated cardinality[0 .. *] {
40    input interface inactAuthenticated {
41    }
42    output interface outactAuthenticated {
43    }
44   }
45  }
46 }
```

Listing B.2: Messir Spec. file environment.msr.

$B.3 \quad File \\ associations/primary types-associations.msr$

```
1 /*
2 * @author Nikita
3 * @date Fri Feb 10 14:29:46 MSK 2017
4 */
5
6 package lu.uni.lassy.excalibur.myproject.concepts.primarytypes.associations {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 Concept Model {
14
15 Primary Types {
16
17 }
18 }
19 }
```

Listing B.3: Messir Spec. file primarytypes-associations.msr.

$B.4 \quad File \\ \quad ./src\text{-gen/messir-spec/concepts/primarytypes-classes.msr}$

```
1 / *
2 * @author Nikita
3 * @date Fri Feb 10 14:29:46 MSK 2017
4 */
6 package lu.uni.lassy.excalibur.myproject.concepts.primarytypes.classes {
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
13 import lu.uni.lassy.messir.libraries.primitives
14
15 Concept Model {
16
17 Primary Types {
  state class ctState {
19
    attribute vpStarted: ptBoolean
21
    operation init (AvpStarted:ptBoolean): ptBoolean
23
   }
24
25 }
```

26 } 27 }

Listing B.4: Messir Spec. file primarytypes-classes.msr.

 $B.5 \quad File \qquad ./src\text{-gen/messir-spec/concepts/primarytypes-datatypes.msr} \\$

```
1 / *
2 * @author Nikita
3 * @date Fri Feb 10 14:29:46 MSK 2017
4 */
6 package lu.uni.lassy.excalibur.myproject.concepts.primarytypes.datatypes {
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 Concept Model {
14
15
  Primary Types {
16
  datatype dtCrisisID {
17
18
19
    }
20
   }
21 }
22 }
```

Listing B.5: Messir Spec. file primarytypes-datatypes.msr.

 $B.6 \quad File \qquad ./src\text{-gen/messir-spec/concepts/secondary types-associations/secondary types-associations.msr}$

```
1 / *
2 * @author Nikita
3 * @date Fri Feb 10 14:29:46 MSK 2017
6 package lu.uni.lassy.excalibur.myproject.concepts.secondarytypes.associations {
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 Concept Model {
14
15
  Secondary Types {
16
17
18 }
19 }
```

Listing B.6: Messir Spec. file secondarytypes-associations.msr.

 $B.7 \quad File \qquad ./src\text{-gen/messir-spec/concepts/secondarytypes-classes.msr} \\$

```
1 /*
2 * @author Nikita
```

```
3 * @date Fri Feb 10 14:29:46 MSK 2017
4 */
5
6 package lu.uni.lassy.excalibur.myproject.concepts.secondarytypes.classes {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 Concept Model {
14
15 Secondary Types {
16
17 }
18 }
19 }
```

Listing B.7: Messir Spec. file secondarytypes-classes.msr.

$B.8 \quad File \qquad ./src\text{-gen/messir-spec/concepts/secondary types-datatypes.msr} \\$

```
2 * @author Nikita
3 * @date Fri Feb 10 14:29:46 MSK 2017
{\color{red}4}\, \star /
6 package lu.uni.lassy.excalibur.myproject.concepts.secondarytypes.datatypes {
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 Concept Model {
14
15 Secondary Types {
16
17 }
18
19 }
20 }
```

Listing B.8: Messir Spec. file secondarytypes-datatypes.msr.

B.9 File ./src-gen/messir-spec/tests/tests.msr

```
1 /*
2 * @author Nikita
3 * @date Fri Feb 10 14:29:46 MSK 2017
4 */
5
6 package lu.uni.lassy.excalibur.myproject.tests {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 Test Model {
14
15 }
16
17 }
```

Listing B.9: Messir Spec. file tests.msr.

B.10 File ./src-gen/messir-spec/usecases/usecaseinstanceoeSetCrisisHandler-ucioeSetCrisisHandler.msr

```
1 package usecases.ucioeSetCrisisHandler {
2  import lu.uni.lassy.excalibur.myproject.usecases
3
4  Use Case Model {
5
6  use case instance ucioeSetCrisisHandler : subfunction oeSetCrisisHandler{
7  actors {
8
9  }
10  }
11 }
12 }
```

Listing B.10: Messir Spec. file usecaseinstance-oeSetCrisisHandler-ucioeSetCrisisHandler.msr.

B.11 File ./src-gen/messir-spec/usecases/usecases.msr

```
2 * @author Nikita
3 * @date Fri Feb 10 14:29:46 MSK 2017
4 */
6 package lu.uni.lassy.excalibur.myproject.usecases {
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13
   Use Case Model {
14
   use case system subfunction oeSetCrisisHandler(AdtCrisisID:lu.uni.lassy.excalibur.myproject.
15
       concepts.primarytypes.datatypes.dtCrisisID) {
     actor lu.uni.lassy.excalibur.myproject.environment.actCoordinator[primary, active]
16
17
     actor lu.uni.lassy.excalibur.myproject.environment.actCoordinator[secondary, passive]
     actor lu.uni.lassy.excalibur.myproject.environment.actComCompany[multiple, passive]
18
19
20 use case system subfunction oeSollicitateCrisisHandling() {
21
     actor lu.uni.lassy.excalibur.myproject.environment.actActivator[primary, proactive]
22
     actor lu.uni.lassy.excalibur.myproject.environment.actCoordinator[secondary, passive, multiple]
     actor lu.uni.lassy.excalibur.myproject.environment.actAdministrator[secondary, passive]
23
24
25
   use case system subfunction oeLogIn() {
26
27
     actor lu.uni.lassy.excalibur.myproject.environment.actActivator[primary, proactive]
28
29
   use case system subfunction oeLogOut() {
30
31
     actor lu.uni.lassy.excalibur.myproject.environment.actActivator[primary, proactive]
32
  use case system usergoal ugSecurelyUseSystem() {
33
34
    actor lu.uni.lassy.excalibur.myproject.environment.actAuthenticated[primary, active]
35
    actor lu.uni.lassy.excalibur.myproject.environment.actAuthenticated[primary, active]
36
    actor lu.uni.lassy.excalibur.myproject.environment.actAuthenticated[primary, active]
37
   reuse oeLogIn[1..1]
38
39
   reuse oeLogOut[1..1]
40
    }
41
42
```

Listing B.11: Messir Spec. file usecases.msr.

43 }