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myhelloworld :

Mess1p Analysis Document

- v 0.0 -

Friday 4th September, 2015 - 15:46

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Chapter 1

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

Chapter 2

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 **Messip** 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 **Messip** 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 **Messip** method and inspired by the standard Cokburn template [?].

2.3.1 Use Cases

2.3.1.1 subfunction-oeHelloWorld

Figure 2.1 shows the oeHelloWorld subfunction use-case and its primary actor actYou.

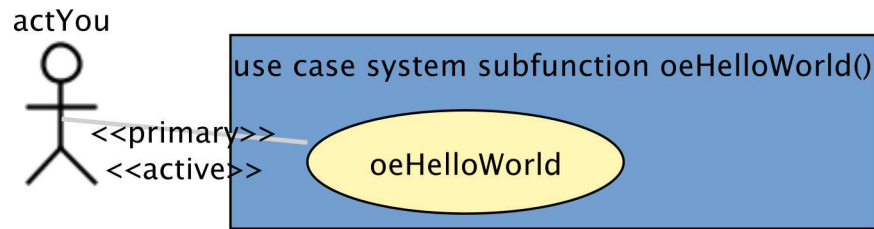


Fig. 2.1

2.3.2 Use Case Instance(s)

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

Chapter 3

Environment Model

3.1 Environment model view(s)

There are no view(s) for the **messip** environment model.

3.2 Actors and Interfaces Descriptions

We provide for the given views the description of the actors together with their associated input and output interface descriptions.

3.2.1 *actYou Actor*

ACTOR
<i>actYou</i> Is representing any person that would like to receive an hello world message from the system.

Chapter 4

Concept Model

4.1 Concept Model view(s)

There are no view(s) for the **Messip** 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

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

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.

Chapter 5

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 **messi** 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

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

5.8 Secondary Types - Operation Schemes for Enumerations

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

Chapter 6

Test Model(s)

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

Chapter 7

Additional Constraints

Appendix A

Undocumented Messir Specification Elements

A.1 Undocumented Use Cases

A.1.1 Undocumented Subfunction Level Use Cases

- lu.uni.lassy.excalibur.myhelloworld.usecases.oeHelloWorld

A.2 Undocumented Use Case Instances

A.2.1 Undocumented Subfunction Level Use Case Instances

- usecases.ucioeHelloWorld.ucioeHelloWorld

A.2.2 Undocumented Use Case Instance Views

- uci-ucioeHelloWorld

A.3 Undocumented Primary Types

A.3.1 Undocumented Primary Classe Types

- lu.uni.lassy.excalibur.myhelloworld.concepts.primarytypes.classes.ctState

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 uuida9ee0ade37904e58a87dbb5a9a86d6e2 {
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 benoit.ries
3 * @date Fri Sep 04 15:42:52 CEST 2015
4 */
5
6 package lu.uni.lassy.excalibur.myhelloworld.environment {
7
8     import lu.uni.lassy.messir.libraries.calendar
9     import lu.uni.lassy.messir.libraries.collections
10    import lu.uni.lassy.messir.libraries.math
11    import lu.uni.lassy.messir.libraries.primitives
12    import lu.uni.lassy.messir.libraries.string
13
14    Environment Model {
15
16        actor actYou role rnactYou cardinality [1..*] {
17
18            input interface inactYou {
19
20            }
21            output interface outactYou {
22
23            }
24        }
25    }
26 }
27 }
```

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

B.3 File ./src-gen/messir-spec/concepts/primarytypes-associations/primarytypes-associations.msr

```
1 /*
2 * @author benoit.ries
3 * @date Fri Sep 04 15:42:52 CEST 2015
4 */
5
6 package lu.uni.lassy.excalibur.myhelloworld.concepts.primarytypes.associations {
7
8     import lu.uni.lassy.messir.libraries.calendar
9     import lu.uni.lassy.messir.libraries.collections
```

```

10 import lu.uni.lassy.messir.libraries.math
11 import lu.uni.lassy.messir.libraries.primitives
12 import lu.uni.lassy.messir.libraries.string
13
14 Concept Model {
15   Primary Types {
16   }
17 }
18 }
19 }
20 }

```

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

B.4 File ./src-gen/messir-spec/concepts/primarytypes-classes/primarytypes-classes.msr

```

1 /*
2 * @author benoit.ries
3 * @date Fri Sep 04 15:42:52 CEST 2015
4 */
5
6 package lu.uni.lassy.excalibur.myhelloworld.concepts.primarytypes.classes {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.collections
10 import lu.uni.lassy.messir.libraries.math
11 import lu.uni.lassy.messir.libraries.primitives
12 import lu.uni.lassy.messir.libraries.string
13
14 import lu.uni.lassy.messir.libraries.primitives
15
16 Concept Model {
17   Primary Types {
18
19     state class ctState {
20       attribute vpStarted: ptBoolean
21
22       operation init(AvpStarted:ptBoolean): ptBoolean
23     }
24   }
25 }
26 }
27 }
28 }

```

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

B.5 File ./src-gen/messir-spec/concepts/primarytypes-datatypes/primarytypes-datatypes.msr

```

1 /*
2 * @author benoit.ries
3 * @date Fri Sep 04 15:42:52 CEST 2015
4 */
5
6 package lu.uni.lassy.excalibur.myhelloworld.concepts.primarytypes.datatypes {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.collections
10 import lu.uni.lassy.messir.libraries.math
11 import lu.uni.lassy.messir.libraries.primitives
12 import lu.uni.lassy.messir.libraries.string
13
14 Concept Model {
15   Primary Types {
16   }
17 }
18 }
19 }
20 }

```

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

B.6 File `./src-gen/messir-spec/concepts/secondarytypes-associations/secondarytypes-associations.msr`

```

1 /*
2 * @author benoit.ries
3 * @date Fri Sep 04 15:42:52 CEST 2015
4 */
5
6 package lu.uni.lassy.excalibur.myhelloworld.concepts.secondarytypes.associations {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.collections
10 import lu.uni.lassy.messir.libraries.math
11 import lu.uni.lassy.messir.libraries.primitives
12 import lu.uni.lassy.messir.libraries.string
13
14 Concept Model {
15
16   Secondary Types {
17
18   }
19 }
20 }
```

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

B.7 File `./src-gen/messir-spec/concepts/secondarytypes-classes/secondarytypes-classes.msr`

```

1 /*
2 * @author benoit.ries
3 * @date Fri Sep 04 15:42:52 CEST 2015
4 */
5
6 package lu.uni.lassy.excalibur.myhelloworld.concepts.secondarytypes.classes {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.collections
10 import lu.uni.lassy.messir.libraries.math
11 import lu.uni.lassy.messir.libraries.primitives
12 import lu.uni.lassy.messir.libraries.string
13
14 Concept Model {
15
16   Secondary Types {
17
18   }
19 }
20 }
```

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

B.8 File `./src-gen/messir-spec/concepts/secondarytypes-datatypes/secondarytypes-datatypes.msr`

```

1 /*
2 * @author benoit.ries
3 * @date Fri Sep 04 15:42:52 CEST 2015
4 */
5
6 package lu.uni.lassy.excalibur.myhelloworld.concepts.secondarytypes.datatypes {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.collections
10 import lu.uni.lassy.messir.libraries.math
11 import lu.uni.lassy.messir.libraries.primitives
12 import lu.uni.lassy.messir.libraries.string
13
14 Concept Model {
15
16   Secondary Types {
17
18   }
19 }
20 }
```

21 }

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

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

```

1 /*
2  * @author benoit.ries
3  * @date Fri Sep 04 15:42:52 CEST 2015
4  */
5
6 package lu.uni.lassy.excalibur.myhelloworld.tests {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.collections
10 import lu.uni.lassy.messir.libraries.math
11 import lu.uni.lassy.messir.libraries.primitives
12 import lu.uni.lassy.messir.libraries.string
13
14   Test Model {
15
16   }
17
18 }
```

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

B.10 File

./src-gen/messir-spec/usecaseinstance-oeHelloWorld-ucioeHelloWorld.msr

```

1 package usecases.ucioeHelloWorld {
2   import lu.uni.lassy.excalibur.myhelloworld.usecases
3   import lu.uni.lassy.excalibur.myhelloworld.environment
4
5   Use Case Model {
6
7     use case instance ucioeHelloWorld : subfunction oeHelloWorld{
8       actors {
9         benoitRies : actYou
10      }
11      ieHelloWorld("Hello You") returned to benoitRies
12    }
13  }
14 }
```

Listing B.10 Messir Spec. file usecaseinstance-oeHelloWorld-ucioeHelloWorld.msr.

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

```

1 /*
2  * @author benoit.ries
3  * @date Fri Sep 04 15:42:52 CEST 2015
4  */
5
6 package lu.uni.lassy.excalibur.myhelloworld.usecases {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.collections
10 import lu.uni.lassy.messir.libraries.math
11 import lu.uni.lassy.messir.libraries.primitives
12 import lu.uni.lassy.messir.libraries.string
13 import lu.uni.lassy.excalibur.myhelloworld.environment
14
15   Use Case Model {
16 use case system subfunction oeHelloWorld() {
17   actor actYou[primary, active]
18 }
19 }
20
21 }
```

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

