Katholieke
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**Department of
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DOCUMENT PROCESSING

Domain Analysis

Software Architecture (H09B5a and H07Z9a) – Part 1

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Contents

1 Domain analysis

1.1 Domain models

This section shows the domain model(s).

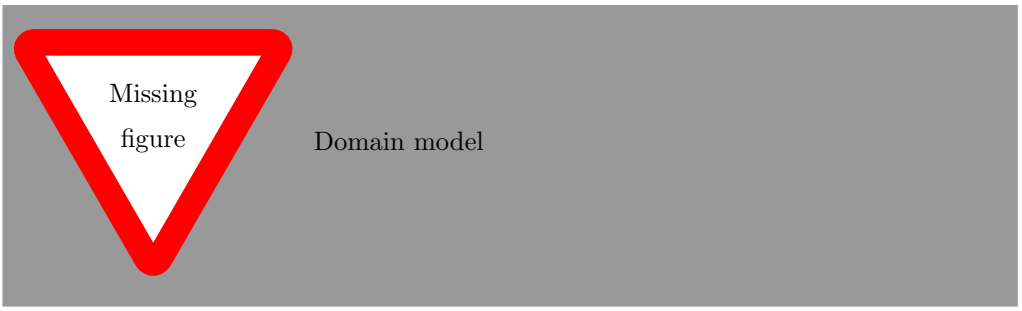

Figure 1: The domain model for the system.

1.2 Domain constraints

In this section we provide additional domain constraints.

- This is a first constraint.
- This is a second constraint.

1.3 Glossary

In this section, we provide a glossary of the most important terminology used in this analysis.

- **Term1**: definition
- **Term2**: definition

2 Functional requirements

Use case model

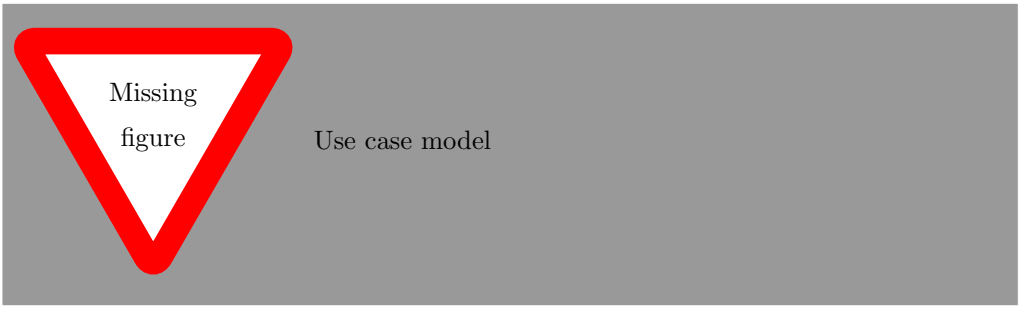

Figure 2: Use case diagram for the system.

2.1 *UC1*: Name of use case 1

- **Name:** Name of use case 1
- **Primary actor:** primary actor
- **Interested parties:**

  - *Name of interested party:* reason why party is interested

- **Preconditions:**
  - First precondition.
  - Second precondition.
- **Postconditions:**
  - First postcondition.
  - Second postcondition.
- **Main scenario:**
  1. Step 1
  2. Step 2
  3. Step 3
  4. ...
- **Alternative scenarios:**

  3b. Alternative at step 3
- **Remarks:**
  - First remark

3 Non-functional requirements

In this section, we model the non-functional requirements for the system in the form of *quality attribute scenarios*. We provide for each type (availability, performance and modifiability) one requirement.

3.1 Availability

3.1.1 *Av1*: Name of the quality attribute scenario

Shortly describe the context of the scenario.

- **Source:** source
- **Stimulus:**
  - Description of a first stimulus.
  - Description of a second stimulus.
- **Artifact:** the stimulated artifact
- **Environment:** the condition under which the stimulus occurs
- **Response:**
  - Describe how the system should respond to the stimulus.
- **Response measure:**
  - Describe how the satisfaction of a response is measured.

3.2 Performance

3.2.1 *P1*: Name of the quality attribute scenario

Shortly describe the context of the scenario.

- **Source:** source
- **Stimulus:**
  - Description of a first stimulus.
  - Description of a second stimulus.
- **Artifact:** the stimulated artifact
- **Environment:** the condition under which the stimulus occurs
- **Response:**
  - Describe how the system should respond to the stimulus.
- **Response measure:**
  - Describe how the satisfaction of a response is measured.

3.3 Modifiability

3.3.1 *M1*: Name of the quality attribute scenario

Shortly describe the context of the scenario.

- **Source:** source
- **Stimulus:**
  - Description of a first stimulus.
  - Description of a second stimulus.
- **Artifact:** the stimulated artifact
- **Environment:** the condition under which the stimulus occurs
- **Response:**
  - Describe how the system should respond to the stimulus.
- **Response measure:**
  - Describe how the satisfaction of a response is measured.