Target Specification (due to 07.03.14)

Outline

(from class Software Engineering (3. Semester Bachelor University of Paderborn)

1. **Definition of goals:** Why is this software developed?

    - Main task for the system
    - reasons for development of the system and derived goals
    - target group
    - Form: Text

2. **Product deployment:** How does the problem look like? Which structures and procedures exist?

    (a) **Description of problem**
       - Explanation of technical terms and relations for non-professionals
       - Form: Text + graphics

    (b) **Glossary**
       - reference text for technical terms
       - Form: <Technical Term> <Description (max. 3 sentences)>

    (c) **Model of problem**
       - Describes structure: Which terms exist, how are they connected?
       - Form: UML class diagram

    (d) **Business Processes**
       - Describes behaviour: What happens in domain? Who does what in which steps?
       - Form: UML activity diagram

3. **Product functions:** What should the software do?

    - Description of functional requirements
    - solution requirements
    - Form: UML use case diagram (GUI sketch)

4. **Product characteristics:** How should the software do this? Where should the software do this (environment)

    (a) System environment: In which environment should the software be applied?
       typical information
       - type of processor, frequency
       - Main Memory
       - Display resolution
       - further hardware requirements: Graphic card, sound card, etc.
       - Input/Output devices
       - Network connections, protocols, transfer capacity, utilization

    (b) Description of non-functional requirements
       - qualities which differentiates our product from other products

       Type list:

       - Functionality
       - Reliability
       - Usability
       - Efficiency
       - Maintainability
       - Portability

       - Form: tabular

Name	unambiguous description
Type	from type list
Description	textual explanation
connected Use Case(s)	connected function