

Assignment 1-A: Requirements for the AtmosFear

Requirements Engineering 2012

Description:

You are a Requirements Engineer working at the company *FearFun Systems* that just got a new contract to develop a new system with the project name AF-101. Your assignment is to create software requirements for the system:

The AF-101 is a free-fall attraction in *Liseberg* amusement park. Those of you who are not familiar with the device can read and watch how it works on its Wikipedia page or just Google it! In this assignment we are however only interested in the Software requirements of the system used to control the device, and its functionalities.



Figure 1: Picture of the AF-101 device

- Write 20 natural language Software requirements for the AF-101.
- Write 5 use cases for the AF -101.
- Write 3 user stories for the AF -101.
- Overlap among NatLang reqs., User Stories and Use Cases are permitted.

Follow these rules!

- Write only Software requirements! No hardware.
- In these 20 requirements you should include 10 good and 10 bad requirements considering the quality criteria for individual requirements, given in the IREB book (Chapter 4-5).
- In your document, do **NOT** specify if a requirement is good or bad.
- Also, the good or bad requirements **HAVE TO** be mixed in your document, and **must NOT** follow any specific order or pattern (NOT e.g. good req, bad req, good req, bad req ...).
- Note that a good requirement should satisfy ALL the criteria mentioned in the IREB book (Chapter4-5)

- For each quality criterion of individual requirements according to the IREB book you should have 2 requirements that do not satisfy that criterion. For instance you should have 2 requirements that are not traceable.
- It is allowed to have requirements that do not satisfy more than one quality criteria. For instance you can have a requirement that is not traceable, and is not understandable either.
- You **HAVE TO** include **BOTH** functional and non-functional (quality) requirements in these 20 requirements.
- For the use cases, use standard UML use case notation, and the template from the IREB book (Chapter 6). Consider the quality attributes for individual requirements when creating the use cases.
- Write the user stories based on the guidelines provide in Workshop 1 (on 7th Sep). Consider the quality attributes for individual requirements when writing the user stories.
- The requirements document should not have your name on it, **ONLY** the anonymous code that you have been given!
- Number all of the requirements, so that you can refer to them in the survey (see below).

Important information:

- After writing your requirements use the below survey to provide more detail information about them. Try to keep answers to the survey questions **less than 100 words**:
(<https://www.surveymonkey.com/s/re-2012-srs-self-review>)
- The submission of your requirements document shall be done through the FIRE system: (<https://fire.cs.chalmers.se:8071/cgi/Fire-reen>)
- For a complete submission of the assignment, you have to submit both your requirements document in the Fire system **AND** answer the survey.
- The deadline is 14/9 at 18.00. No late submissions will be accepted
- The assignment is individual!