Requirements Specification

Presentation of Assignment 1

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Overview

- Structure of SRS docuement based on IEEE Std 830-1998
- Both HTML (high priority) and Markdown (low priority) supported
- Designed for people with a strong background in informatics

Structure of Requirements

Requirement ID	ID that allows identifying each requirement uniquely.
Title	Describes the requirement concise.
Description	Defines the requirement in detail.
Priority	Shows the order in which requirements should be implemented. Priorities are classified in 3 groups (highest to lowest) 1, 2, and 3. Requirements of **priority 1** are mandatory for the first Implementation; Requirements of **priority 2** are mandatory for the final Implementation. A **priority greater or equal than 3** represents optional features.
Risk	Specifies the risk of not implementing the requirement. It tells how critical the requirement is to the system as a whole. The following risk levels are defined over the impact of not being implemented correctly. ▪ **Critical** (C) It will break the main functionality of the system. The system cannot be used if this requirement is not implemented. ▪ **High** (H) It will impact the main functionality of the system. Some function of the system could be inaccessible, but the system can be generally used. ▪ **Medium** (M) It will impact some system features, but not the main functionality. The system can still be used with some limitation. ▪ **Low** (L) The system can be used without limitation, but with some workarounds.
References	The IDs of requirement that are relevant in this context are listed here.

Functional Requirements

- All commonly used tags are supported (creating hyperlinks, bullet lists, tables or headings)
- User-specified tags are allowed
- Minification and correction of wrong tags supported
- Inline Text Styling (Color, Size, Weight) is available

Non-Functional Requirements

- Library should not depend on external libraries
- Error-free, performant and maintainable library
- Small training period for people who are experienced in software engineering
- Easily extendable

Challenges

- Team coordination and work planning
- No real requirement specification process
- Little experience of team members in software engineering
- What are realistic values when specifying performance or hardware requirements?

Improvements

- Fewer errors in submission by better and earlier revision
- More requirements?
- Being more precise

Requirement ID	R3.4.0.001
Title	Response Time
Description	The maximum time to generate the HTML file should be 1 minute. Assuming the HTML generator does not generate dynamic websites and there is no database connection.
Priority	2
Risk	L
References	

generation time should be described in relation to file size (amount of content) that has to be created