Software Requirements Specification
Software Engineering

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Table 1: **Revision History**

Date	Version	Notes
Date 1	1.0	Notes
Date 2	1.1	Notes

This document describes the requirements for .... The template for the Software Requirements Specification (SRS) is a subset of the Volere template (Robertson and Robertson, 2012). If you make further modifications to the template, you should explicitly state what modifications were made.

1 Project Drivers

1.1 The Purpose of the Project

1.2 The Stakeholders

1.2.1 The Client

1.2.2 The Customers

1.2.3 Other Stakeholders

1.3 Mandated Constraints

1.4 Naming Conventions and Terminology

- Platform - The web system/application.

- Heavy traffic - When many users are accessing the platform at one time.

1.5 Relevant Facts and Assumptions

User characteristics should go under assumptions.

2 Functional Requirements

2.1 The Scope of the Work and the Product

2.1.1 The Context of the Work

2.1.2 Work Partitioning

2.1.3 Individual Product Use Cases

2.2 Functional Requirements

3 Non-functional Requirements

3.1 Look and Feel Requirements

3.2 Usability and Humanity Requirements

3.3 Performance Requirements

NFR-1: The system shall load and display trials to the user in a timely manner.
Rationale: In addition to obvious usability reasons, there is a potential for users (especially clinicians) to rapidly change the criteria for eligibility, meaning the time spent waiting for trials to load can grow very fast if it is slow.
Fit criterion: The system shall not take longer than 2 seconds to load and display a set of trials, during any given search made by a user.
Traceability: **Traces to functional requirements related to searching for trials, displaying trials, getting data from repositories.**

NFR-2: The system shall remain performant during times of heavy traffic.
Rationale: The system will experience varying amounts of traffic, and it should be prepared to handle all cases (heavy traffic being the one to likely cause issues).
Fit criterion: Any system API call shall take less than 1 second to respond for up to 1000 concurrent users, and less than 2 seconds to respond for anything greater (assuming the system will not see > 10000 users).
Traceability: Traces to pretty much all FRs that are mentioned in the other

performance requirements

NFR-3: The systems UI elements shall acknowledge all forms of user input in a timely manner.
Rationale: Timely response from the system is necessary for a good user experience. Additionally, things like keyboard shortcuts should be just as performant as using a mouse (and vice-versa).
Fit criterion: The system shall take less than 150ms to acknowledge user input, and make it clear to the user that it has registered the request.
Traceability: Traces to any FR that requires user input of some form

NFR-4: The system shall efficiently store/retrieve user data from the database.
Rationale: For the system to remain performant, it must handle data efficiently, especially as the total number of users increase.
Fit criterion: The system shall take no longer than 500ms when querying the database for user info (includes query execution time + any overhead of executing the query).
Traceability: Traces to any FR that requires user information

3.4 Operational and Environmental Requirements

3.5 Maintainability and Support Requirements

3.6 Security Requirements

3.7 Cultural Requirements

3.8 Legal Requirements

3.9 Health and Safety Requirements

This section is not in the original Volere template, but health and safety are issues that should be considered for every engineering project.

4 Project Issues

4.1 Open Issues

4.2 Off-the-Shelf Solutions

4.3 New Problems

4.4 Tasks

4.5 Migration to the New Product

4.6 Risks

4.7 Costs

4.8 User Documentation and Training

4.9 Waiting Room

4.10 Ideas for Solutions

References

James Robertson and Suzanne Robertson. *Volere Requirements Specification Template.* Atlantic Systems Guild Limited, 16 edition, 2012.

5 Appendix

This section has been added to the Volere template. This is where you can place additional information.

5.1 Symbolic Parameters

The definition of the requirements will likely call for SYMBOLIC_CONSTANTS. Their values are defined in this section for easy maintenance.