Especificación de requisitos de Software

Proyecto ….

Mayo 2025

Software Requirements Specification

CONTENT

1.   INTRODUCTION

This document is a Software Requirements Specification (SRS) for the Case and Task Management System for the Independent Lawyer and activist Luz Romero. This specification has been structured based on the guidelines provided by the IEEE Recommended Practice for Software Requirements Specifications ANSI/IEEE 830, 1998.

1.1.   Purpose

This document presents the functional and non-functional requirements of the Case and Task Management System for an Independent Lawyer. This system can be used by independent lawyers to keep a record of their cases and publish them on a personal website to promote their brand. Additionally, through a scheduling system, it will allow lawyers to organize their tasks and set reminders to manage and optimize their time usage.

1.2.   Extent

This documentation is intended for users of the system, in order to establish the functionalities and use it in the program development. The main objective of the system is the

registration and publication of legal cases, as well as task management through a calendar and reminders.

1.3.   Involved personnel

Nombre	Eduardo Mortensen
Rol	System analyst, web designer and programmer.
Categoría	Developer
Responsabilidad	Requirement modelling, and system design.
Información de contacto	eamortensen@espe.edu.ec

Name	Marcelo Pareja
Role	System analyst, web designer and programmer.
Category	Developer
Responsibility	Requirement modelling, and system design.
Contact Information	mapareja@espe.edu.ec

Nombre	Bryan Quispe
Rol	System analyst, web designer and programmer.
Categoría	Developer
Responsabilidad	Requirement modelling, and system design.
Información de contacto	brquispe@espe.edu.ec

1.4.   Definitions, acronyms and abbreviations.

Term	Description
User	Person who will use the system to manage cases
SRS	Software Requirements Specification
FR	Functional Requirement
NFR	Non-Functional Requirement

1.5.   References

Document title	Standard Reference
IEEE 830 - 1998	IEEE

1.6.   Summary

The report contains three sections. The first section is an introduction to the document, providing both an overview of the system resource specification and the goals to be achieved in the development of the project.

The second section provides a general description of the system, defining the main functions it must perform at a minimum, as well as the general data specifications, factors, constraints, assumptions, and dependencies that affect development.

Finally, the third section of the document details the functional and non-functional requirements that the system must meet with a defined standard.

2.   GENERAL DESCRIPTION

2.1.   Product perspective

The Case and Task Management System for Independent Lawyers seeks to meet the standards and needs of independent lawyers. It will allow them to register information about completed or ongoing cases and publish it in a way that protects sensitive information of those involved. This serves to showcase their work and act as a guide for future lawyers or individuals interested in understanding how certain legal processes work.

To publish their cases, lawyers will be able to generate a report for each case, omitting private information such as names of the parties involved or their phone numbers and addresses. Lawyers can enter general information about the case and create a timeline displaying the different stages and events of the case with their respective dates and descriptions. Events can include attachments such as evidence, legal advice, and personal observations from the lawyer regarding the process. This timeline can be updated by adding or removing events.

Additionally, lawyers will be able to manage their appointments or pending tasks related to different cases through a scheduling system. This system will allow the lawyer to add appointments or actions to perform and set one or more reminders to be received via messaging (Whatsapp).
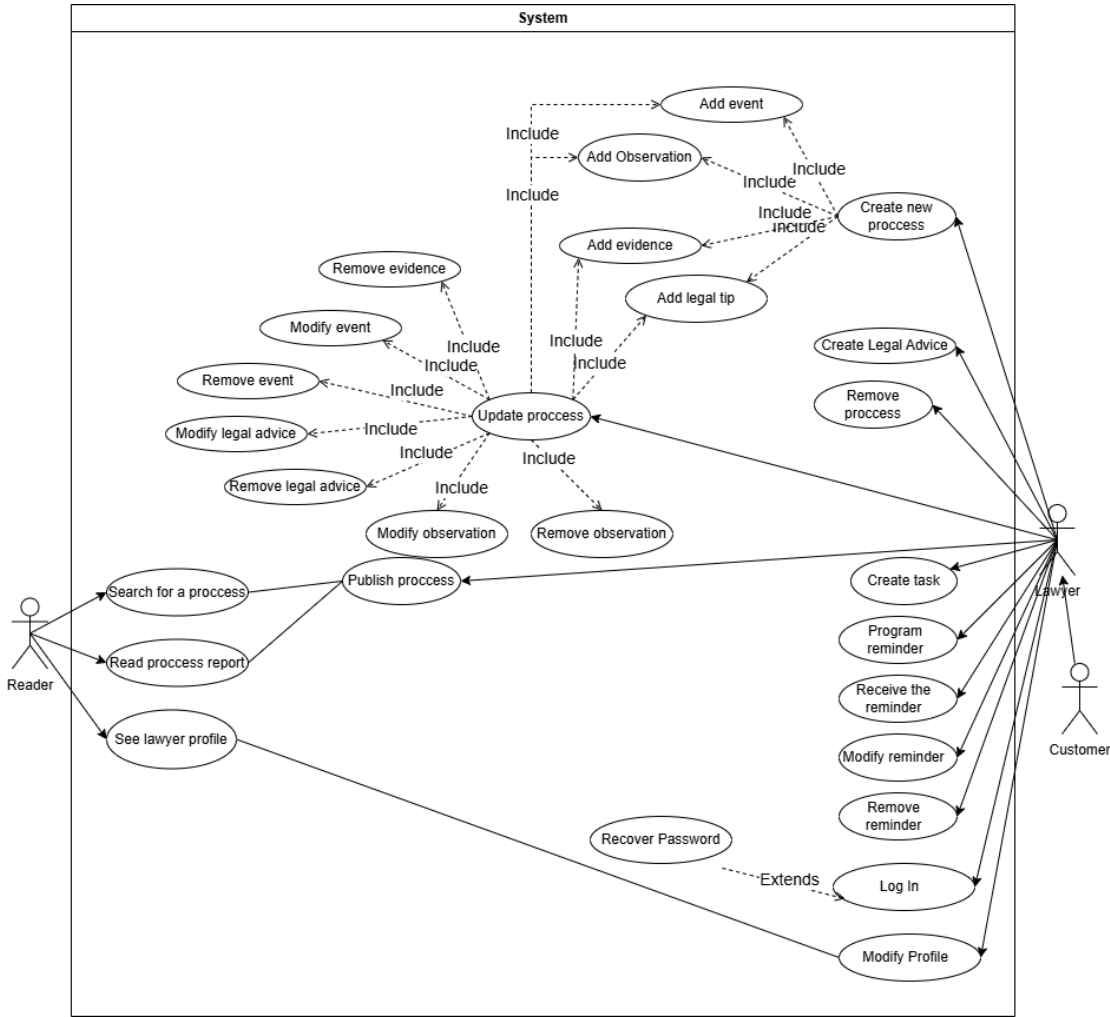
2.2.   Product Functionality

Use Case Diagram

Software Requirements Specification

2.3. Características de los usuarios

User Type	Lawyer
Knowledge	Advanced knowledge of law and legal processes, intermediate proficiency in technology and applications.
Activities	Register and publish cases to showcase their work to the public, presenting the cases in an educational and useful way for both laypeople and law students.

2.4. Restrictions

- Web-based application.

- Must be hosted on a domain.

- Languages and technologies used: HTML, JavaScript, CSS, and PHP.

- The server must be able to handle multiple read and write requests simultaneously.

- Client-server model.

- The interface for both the lawyer and the readers must be simple in design to facilitate use and understanding.

2.5. Suppositions and Dependencies

- It is assumed that the presented requirements are realistic and achievable.

- The devices running the system must have internet access and the capacity to provide proper service.

3. SPECIFIC REQUIREMENTS

Functional Requirements

Identification of the requirement	FR01
Name of Requirement	User Authentication
Characteristics	Users must identify themselves to access any part of the system.
Description of the requirement	The system shall allow lawyers to authenticate through secure login functionality. Only the lawyer shall have access to her clients confidential information
NON-functional requirement	● NFR01

	● NFR02
	● NFR03

Priority of the requirement: High

Identification of the requirement	FR02
Name of Requirement	Process Creation
Characteristics	Lawyers must be able to register new legal processes in the system.
Description of the requirement	The system shall allow the lawyer to create new legal processes that are linked exclusively to her account and accessible only by her.
NON-functional requirement	● NFR01 ● NFR02 ● NFR03 ● NFR04 ● NFR06 ● NFR07

Priority of the requirement: High

Identification of the requirement	FR03
Name of Requirement	Process Update
Characteristics	Lawyer can update an existing legal process with new information

Description of the requirement	The system shall enable the lawyer to modify events, attach evidence, add legal tips, and observations within her own cases.
NON-functional requirement	- NFR01 - NFR02 - NFR04 - NFR05 - NFR06 - NFR07
Priority of the requirement:High	

Identification of the requirement	FR04
Name of Requirement	Process Publication
Characteristics	Lawyer should be able to publish legal processes for readers to access.
Description of the requirement	The system shall allow the lawyer to publish selected legal process summaries for public reading, without exposing client identity or private details.
NON-functional requirement	- NFR01 - NFR02 - NFR03 - NFR04 - NFR06 - NFR07

Software Requirements Specification

Priority of the requirement: Medium

Identification of the requirement	FR05
Name of Requirement	Process Search
Characteristics	Readers can search for specific legal processes.
Description of the requirement	The system shall provide a search function for readers to look up anonymized processes published by the lawyer.
NON-functional requirement	- NFR01 - NFR02 - NFR04 - NFR06 - NFR07
Priority of the requirement:High	

Identification of the requirement	FR06
Name of Requirement	Process Report Viewing
Characteristics	Readers can read the details of published legal processes.

Description of the requirement	The system shall allow readers to access redacted reports of legal processes that do not include client-identifying information.
NON-functional requirement	- NFR01 - NFR02 - NFR04 - NFR06 - NFR07
Priority of the requirement: Medium	

Identification of the requirement	FR07
Name of Requirement	Appointment Scheduling
Characteristics	The lawyer must be able to schedule their appointments with clients, or pending tasks.
Description of the requirement	The system shall allow the lawyer to set any appointments be it a client meeting, or a legal procedure.
NON-functional requirement	- NFR01 - NFR02 - NFR04 - NFR06 - NFR07
Priority of the requirement: High	

Identification of the requirement	FR08
Name of Requirement	Reminder System
Characteristics	Lawyers can set, receive, modify, and remove reminders related to their appointments.
Description of the requirement	The system shall allow lawyers to manage their personal reminder notifications confidentially. They can be able to create multiple reminders on different dates for the same appointment.
NON-functional requirement	- NFR01 - NFR02 - NFR03 - NFR04 - NFR06 - NFR07
Priority of the requirement: Medium	

Identification of the requirement	FR09
Name of Requirement	Profile Management
Characteristics	Users can update their profile information.
Description of the requirement	The system shall provide functionality for users to securely modify their personal information. The lawyer shall not share client data with others.

NON-functional requirement	- NFR01 - NFR02 - NFR03 - NFR04 - NFR07
Priority of the requirement: Medium	

Identification of the requirement	FR010
Name of Requirement	Password Recovery
Characteristics	Users should be able to recover their account access if credentials are lost.
Description of the requirement	The system shall allow users to securely recover their password through a private process that protects their identity.
NON-functional requirement	- NFR01 - NFR02 - NFR03 - NFR04 - NFR06 - NFR07
Priority of the requirement: High	

Identification of the requirement	FR011

Name of Requirement	Reminder System
Characteristics	Reminder reception via Whatsapp
Description of the requirement	The system should send the user a Whatsapp message according to their scheduled reminders. The message should contain all information regarding the appointment: ● Description of the task ● Date and time ● If another person is involved, their contact information.
NON-functional requirement	● NFR01 ● NFR02 ● NFR03 ● NFR07
Priority of the requirement: Medium	

Non Functional Requirements

Requirement ID	NFR01
Requirement Name	System Availability
Characteristics	Stability, Service continuity, Fault tolerance
Requirement Description	The system must be available at least 99% of the time throughout the calendar year, ensuring continuous access to all system components.
Requirement Priority	High

Requirement ID	NFR02

Requirement Name	System Performance
Characteristics	Response time, Efficiency, Speed
Requirement Description	Core operations like registering a case, uploading evidence, or viewing events should respond in under 2 seconds.
Requirement Priority	High

Requirement ID	NFR03
Requirement Name	Information Security
Characteristics	Encryption, Access control, Data protection
Requirement Description	Passwords must be encrypted and evidence files must be protected based on user roles.
Requirement Priority	High

Requirement ID	NFR04
Requirement Name	Usability
Characteristics	Intuitive interface, Accessibility, Ease of use
Requirement Description	The system must be easy to use by legal and administrative staff without requiring technical training.
Requirement Priority	Medium

Requirement ID	NFR05
Requirement Name	Scalability
Characteristics	Growth capacity, Multi-user support, Expandability
Requirement Description	The system must support an increasing number of users, cases, and data without performance degradation.

Requirement Priority	Medium

Requirement ID	NFR06
Requirement Name	Maintainability
Characteristics	Modular design, Clear documentation, Ease of updates
Requirement Description	The system must follow clean code practices, be modular, and well documented for future maintenance and updates.
Requirement Priority	Medium

Requirement ID	NFR07
Requirement Name	Cross-Platform Compatibility
Characteristics	Browser compatibility, Device responsiveness, Multi-device access
Requirement Description	The system must be compatible with major browsers and accessible from both desktop and mobile devices.
Requirement Priority	High

4. Appends

Class diagram

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