
Software Requirements Specification

Project: “FastWork”

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Document Information

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1 Introduction

This document is a Software Requirements Specification (SRS) for the Information System for the management of processes and control of a website. This specification has been structured following the guidelines provided by the IEEE Standard for Software Requirements Specifications, ANSI/IEEE 830, 1998.

1.1 Purpose

The purpose of this document is to define the functional specifications for the development of a web information system. This system will allow users to register to offer services on the web, create a profile displaying their information, and provide a means of contact. Additionally, it will enable unregistered visitors to search through categories of trades or professions to contact and acquire services from professionals.

1.2 Scope

This specification is intended for the primary user of the system and will contain the requirements that have been analyzed and agreed upon with the user, as well as technical information about the development process itself.

The system will allow the client user to make modifications to their name, last name, ID, province, city, contact link, "About Me" section, gender, date of birth, registration number, image, and trade category, all of which are entered at the time of registration.

Simply using the system should be sufficient to lend credibility to the website.

1.3 Limitations

- a) *The program will not allow the client user to hire a professional user directly from the application.*
- b) *The client user can only contact the professional user through the information provided by the administrator user.*
- c) *The program will not allow the professional user to view the visits their profile has received.*
- d) *The professional user will not be able to create two accounts with the same email address.*
- e) *The user will not be able to edit the email they entered at the time of registration.*

1.4 Personnel Involved

Name	Nicolás Loreto
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1.5 Definiciones, acrónimos y abreviaturas

Nombre	Descripción
SRS	Software Requirements Specification
FR	Functional Requirement
NFR	Non-Functional Requirement
PU	Professional User. Registered User. They will be able to log in, modify their information, choose or modify their trade category, create a public profile, delete or disable their account, and provide a means of contact.
CU	Client User. Unregistered User. They will be able to view public information on the site, search for trades by category, view profiles of Professional Users (PU), and contact them outside of the application.
FW	Fast Work. Website Name.

1.6 Referencias

Título del documento	Referencia
Standard IEEE 830 - 1998	IEEE

1.7 Summary

This document consists of three sections. The first section provides an overview of the SRS. Section two provides a general description of the system to understand the product perspective, user characteristics, constraints, assumptions, and dependencies that impact development, without going into excessive details. Section three defines the specific requirements that the system must satisfy, including user stories (US) and different sprints' details.

2 General description

2.1 Product perspective

The system will be a product designed to operate in web environments. It will include user authentication and the ability to create new users.

2.2 User characteristics

User Type	Administrator.
Education	Web Environment Management.
Skills	Trade category creation.

User Type	PU
Education	Web Environment Management.
Skills	Profile creation, profile editing, profile deletion, category selection.

User Type	CU
Education	Web Environment Management.
Skills	View of PU Profiles, Category Search Filter.

2.3 Restrictions

Interface to be used with the internet.

Languages and technologies in use: HTML, CSS, SASS, JavaScript, TypeScript, MySQL, React and Node.js.

The system will be designed according to a client/server model.

The system must have a simple, intuitive and functional design and implementation, independent of the platform or programming language.

Parallel operations outside of those described in the system are not contemplated.

3 Specific requirements

- *#US01: As a CU, I want to find different professionals on the web to hire a service.*
- *#US02: As a PU, I want to register on the website to offer my services.*
- *#US03: As a CU, I want to find PU by categories to filter my search.*
- *#US04: As a CU, I want to filter my search by gender to find a PU.*
- *#US05: As a PU, I want to register with my information to appear in searches.*
- *#US06: As a PU, I want to select the category of my trade to be part of it.*
- *#US07: As a PU, I want to access my profile to modify my data.*
- *#US08: As a PU, I want to be contacted to provide a service.*
- *#US09: As a PU, I want to create different communication channels to increase the chances of being contacted.*
- *#US10: As a CU, I want to see information about the PU to learn about their qualities.*
- *#US11: As a PU, I want to display an introductory message for users who visit my profile.*
- *#US12: As a PU, I want to access my profile to delete my account.*
- *#US13: As a PU, I want to log out to prevent unauthorized access.*
- *#US14: As a PU or CU with limited visibility, I want an accessible and intuitive page for easy navigation.*
- *#US15: As a PU or CU, I want to navigate the page to explore all its functionalities.*
- *#US16: As a PU or CU, I want to get information about the site's developers.*

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N.º Sprint	0
Sprint Backlog	#US01, #US02, #US03, #US04, #US05, #US06, #US07, #US08, #US09, #US10, #US11.
Responsibilities	Outline the group's work. Create user stories. Create documentation and site map. Perform site layout.

N.º Sprint	1
Sprint Backlog	#US01, #US02, #US03, #US04, #US05, #US06, #US07, #US08, #US09, #US10, #US11, #US12, #US13, #US14, #US15, #US16.
Responsibilities	Create a React SPA with its components. Dependency injection. Apply useState and useEffect for state management and asynchronous operations. Implement site navigation. Create Entity-Relationship Diagram (ERD). Create class and use case diagrams. Define the database model. Generate a test REST API to display data on the screen. Update documentation.

N.º Sprint	2
Sprint Backlog	#US01, #US02, #US03, #US04, #US05, #US06, #US07, #US08, #US09, #US10, #US11, #US12, #US13, #US14, #US15, #US16.
Responsibilities	Create a web API with Express and Paradigm. Create a login page to authenticate users. Implement authentication headers. Apply styles using modules. Make HTML code accessible. Update documentation.

N.º Sprint	3
Sprint Backlog	#US01, #US02, #US03, #US04, #US05, #US06, #US07, #US08, #US09, #US10, #US11, #US12, #US13, #US14, #US15, #US16.
Responsibilities	Frontend-backend connection for registration and login of PU. Create a RESTful API and backend endpoint. Implement a service layer for API calls (proxy services). Test the API with Postman and create workspaces. Implement a complete CRUD for PU. Implement protected routes. Authentication and authorization using filters and tokens. Update documentation.

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N.º Sprint	4
Sprint Backlog	#US01, #US02, #US03, #US04, #US05, #US06, #US07, #US08, #US09, #US10, #US11, #US12, #US13, #US14, #US15, #US16.
Responsibilities	Creation of domain models (Domain Driven Design). Implement interceptors to add authentication headers. Compile for hosting. Implement entity validation before saving them to the domain database. Perform custom queries to the database in the repositories. Document the API with Swagger. Conduct performance testing and stress tests of the API. Implement SEO, at least for the unauthenticated landing page. Add telemetry, at least Google Analytics, to capture product usage. Final demo. Update documentation.