Mole Project Manager

Project Requirements

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OBJECT-ORIENTED PROGRAMMING

NRC. -1973

Contenido

Requirements

1. Introduction

1.1.Purpose

The purpose of this document is to detail the software project requirements for a project management system. To reflect the real needs, expectations and services; we have chosen to classify the requirements into functional, non-functional, developer requirements and those proposed by our client. This document is addressed to the development team and the client, in order to analyze the features and functionalities that must be implemented to meet the expectations that exist on the project.

1.1.System Scope

The system to be developed will be called “Mole” a project management system that will allow you to record in which stage of development a project is, it also helps organizational support to the management of new and old contracts, grants users the possibility of generating reports of the states all projects are, according to a specific date range. The main idea is launching it via web assuring portability for all users, the software that will be used to manage versions is github, we chose this VCS becouse of all its characteristics.

1.2.Definitions, Acronyms and Abreviations

VCS: Version Control System.

SRS**:** Software Requirements Specification.

JSON: JavaScript Object Notation, a data storage format.

RUC: Unique Taxpayer Registry.

SRV: Support identifier.

1.3.References

IEEE Std 830-1998, Software Requirements Specification.

1.4.Document Overview

This document is organized into sections that include the system's general description, specific product requirements, and additional appendices with complementary information. Each section is structured according to the IEEE 830 standard to ensure clarity and completeness.

2. General Description

2.1.1. Product Perspective

The 'Mole' system is standalone and designed to be used as an internal tool within the company. It does not require integration with external systems in its initial version.

2.1.2. Product Functions

- The system will allow users to:
- Add, modify, and query projects.
- Assign statuses to projects and update them according to a defined workflow.
- Manage client information.
- Attach relevant documentation to projects.
- Generate reports based on date intervals.
- Manage technical supports associated with projects.
- Send automated notifications related to technical support.

2.1.3. User Characteristics

The system is designed for use by:

- Administrators: Who can create accounts and manage the system.
- Users: Who can query and manage projects.

2.1.4. Constraints

There are no specific hardware or software constraints for this project.

2.2. Assumptions and Dependencies

It is assumed that users will have basic knowledge of web application usage. The system will be developed as a university project and does not include advanced security standards.

3. Specific Requirements

3.1. External Interfaces

The system will feature an intuitive and user-friendly web interface, accessible via modern browsers. Data will be stored in JSON files.

3.2. Functions

- The system must generate unique identifiers for projects (format: P_01, P_02, ...).
- Projects will include: name, client, description, start date, documentation, and statuses.
- Project statuses will follow a defined workflow (quotation sent, accepted/rejected, in progress, completed, invoiced/not invoiced, paid/unpaid).
- Manage clients with unique identifiers (RUC), name, email, and phone.
- Manage technical supports associated with specific identifiers (SRV_XX).

- Generate reports by date intervals.
- Send automatic notifications 20 days before technical support ends.

3.3.Performance Requirements

The system must handle the required data volume for managing projects and clients with reasonable response times.

3.3.1. Design Constraints

The system will store data in JSON format to simplify its management and portability.

3.4.System Attributes

The system must be reliable and secure, protecting data through basic authentication with encrypted passwords.