Employee Management System
Software Requirements Specification

Revision History

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Software Requirements Specification

1. Introduction

The introduction of the Software Requirements Specification (SRS) provides an overview of the entire SRS with purpose, scope, definitions, acronyms, abbreviations, references and overview of the SRS. The aim of this document is to gather and analyze and give an in-depth insight of the complete **Employee Management system web application** by defining the problem statement in detail. The detailed requirements of the **Employee Management system** are provided in this document.

1.1 Purpose

The purpose of the document is to collect and analyze all assorted ideas that have come up to define the system, its requirements with respect to manager. Also, we shall predict and sort out how we hope this employee will be used in order to gain a better understanding of the organization, outline concepts that may be developed later, and document ideas that are being considered, but may be discarded as the application develops.

In short, the purpose of this SRS document is to provide a detailed overview of our software product, its parameters and goals. This document describes the project's target audience and its user interface, hardware and software requirements. It defines how our client, team and audience see the product and its functionality. Nonetheless, it helps any designer and developer to assist in software delivery lifecycle (SDLC) processes.

12 Scope

Primarily, the scope pertains to the Employee Management product features for making Employee Management System project. It focuses on the company, in this the manager or the HR can add employee and delete the details of the employee.

This SRS is also aimed at specifying requirements of software to be developed but it can also be applied to select a particular employee and delete the detail of the particular employee from the software products. The standard can be used to create software requirements specifications directly or can be used as a model for defining a organization or project specific standard. It does not identify any specific method, nomenclature or tool for preparing an SRS.

1.3   Definitions, Acronyms, and Abbreviations

EMS	Employee Management System
FAQ	Frequently Asked Questions
CRM	Customer Relationship Management

1.4   References

The references are:

- ✓ EMS Structural Model
- ✓ EMS Behavioral Model

1.5   Overview

The remaining sections of this document provide a general description, including characteristics of the users of this project, the product's hardware, and the functional and data requirements of the product. General description of the project is discussed in section 2 of this document. Section 3 gives the functional requirements, data requirements and constraints and assumptions made while designing the EMS. Section 3 also gives the specific requirements of the employee. Section 3 also discusses the external interface requirements and gives detailed description of functional requirements. Section 4 is for supporting information.

2. Overall Description

This web application contains all the details of employee. In which we can add the employee, we can update the employee details and delete the employee details if he no longer belongs to the organization. In this application we can sort the employee. We can view all the employees residing in the organization. We are also providing the paging for the employee management application.

3. Specific Requirements

The specific requirements are –

3.1 Functionality

Introduction –

This subsection contains the requirements for the employee. These requirements are organized by the features discussed in the vision document. Features from vision documents are then refined into use case diagrams and to sequence diagram to best capture the functional requirements of the system. All these functional requirements can be traced using tractability matrix.

3.1.1 Detailed employee Categorizations

The system shall display detailed view of employee categorization to the user.

3.1.2 Provide Sorting facility.

The system shall enable the administrator to sort on the screen.

3.1.3 Maintain employee profile.

The system shall allow employee to create profile and set his credentials. The system shall allow user to update the profile information.

3.1.4 Email Authentication.

The system shall maintain employee email information as a required part of employee profile..

3.1.5 Allow online change.

The system shall display the orders that are eligible to change.

3.1.6 Provide detailed sitemap.

The system shall allow user to view detailed sitemap.

3.2 Usability

3.2.1 Graphical User Interface

The system shall provide a uniform look and feel between all the web pages.

The system shall provide use of icons and toolbars.

3.2.2 Accessibility

The system shall provide handicap access.

The system shall provide easy access to the employee support.

3.3 Reliability & Availability

3.3.1 Back-end Internal Computers

The system shall provide storage of all databases on redundant computers with automatic switchover.

The system shall provide for replication of databases to off-site storage locations.

3.3.2 Internet Service Provider

The system shall provide a contractual agreement with an internet service provider for T3 access with 99.9999% availability.

The system shall provide a contractual agreement with an internet service provider who can provide 99.999% availability through their network facilities onto the internet.

3.4 Performance

   The employee details shall take initial load time depending on internet connection strength which also depends on the media from which it is run.

The performance shall depend on hardware components.

3.5 Security

3.5.1 Data Storage

➢ The employee web browser shall never display a employee's password. It shall always be echoed with special characters representing typed characters.

➢ The system's back-end servers shall never display a employee's password.

➢ The system's back-end servers shall only be accessible to authenticated

 administrators. The system's back-end databases shall be encrypted.

3.6 Supportability

3.6.1 Configuration Management Tool

The source code developed for this system shall be maintained in configuration management tool.

3.7 Design Constraints

3.7.1 Standard Development Tools

The system shall be built using a standard web page development tool that conforms to either IBM's CUA standards or Microsoft's GUI standards.

3.7.2 Web Based Product

➢ There are no memory requirements.

➢ The computers must be equipped with web browsers such as Internet explorer. The employee data must be stored in such a way that allows the board of directors to easily access to it. Response time for loading the employee data should take no longer than five minutes. A general knowledge of basic computer skills is required to use the application.

3.8 Interfaces

There are many types of interfaces as such supported by the Employee Management system are:
➢ User Interface.
➢ Software Interface.
➢ Hardware Interface.

The protocol used shall be HTTP.

The Port number used will be 8080.

There shall be logical address of the system in IPv4 format.

3.8.1 User Interface

The user interface for the software shall be compatible to any browser such as Internet Explorer, Mozilla or Netscape Navigator by which user can access to the system.

The user interface shall be implemented using any tool or software package like Java Applet, MS Front Page, EJB etc.

3.8.2 Hardware Interface

Since the application must run over the internet, all the hardware shall require to connect internet will be hardware interface for the system.

As for e.g. Modem, WAN – LAN, Ethernet Cross-Cable.

3.8.3 Software Interface

The management system shall communicate with the Configurator to identify all the employees present.

3.8.4 Communications Interface

The Employee Management system shall use the HTTP protocol for communication over the internet and for intranet communication will be through TCP or IP protocol suite.

3.9   Licensing Requirements

    Not Applicable

3.10   Legal, Copyright, and Other Notices

Employee Management System display the disclaimer, copyright, word mark.

3.11   Applicable Standards

    It shall be as per the industry standard.

4. Supporting Information

Please refer the following document:

1. Vision document for Employee Management System.
2. Use case analysis.
3. Structural models.
4. Behavioral models.
5. Non-functional requirements model.
6. Traceability Matrix.
7. Project Plan