Software Requirements Specification

For

Employee Management System

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# Introduction

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 provide a clear picture of each employee, and their payroll system.

## Purpose

Main aim of developing Employee Payroll Systems to provide an easy way not only to automate all functionalities involved managing leaves and Payroll for the employees of Company, but also to provide full functional reports to management of Company with the details about usage of leave facility.

## Document Conventions

## This document will use IEEE format. For clarity, acronyms and technical jargon, deemed uncommon by the author, will be annotated and included in the glossary. The format for headings is as followed: Major headings are in bold 18pt font, and concurrent headings in bold 14 pt font. Sections are in the format of x, y where x and y are real, positive integers.

## Intended Audience and Reading Suggestions

This project is a prototype for the store management system and it is restricted within the college premises. This has been implemented under the guidance of college professors. This project is useful for the college store management team and as well as to the customers.

## Scope

This Application works in Multiple PC’s installed on multiple Computers but sharing same database by which users of different department can use it sitting at different locations simultaneously. But in future we can make the Application where the database will be hosted in order to manage the all departments which will be located in different places and by keeping domain of Application as Online.

## Definitions, Acronyms, and Abbreviations

Not applicable

## References

Not applicable

## 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. It also gives the user viewpoint of product.

# Overall Description

This document contains the problem statement that the current system is facing which is hampering the growth opportunities of the company. It further contains a list of the stakeholders and users of the proposed solution. It also illustrates the needs and wants of the stakeholders that were identified in the brainstorming exercise as part of the requirements workshop. It further lists and briefly describes the major features and a brief description of each of the proposed system.

## Product Perspective

This software is developed specifically to cater the company employees leave management, is totally self contained and works efficiently. It provides simple database rather than complex ones for high requirements and it provides good and easy graphical user interface to both new as well as experienced user of the computer.

**2.2 Product Function**

The main product functionalities are:

1. **Master module**

* Designation
* Department

1. Employee module

* Employee details

1. Search module
2. Attendance module

* Leave
* Attendance
* Managing leave

1. Salary module

* Allowance
* Deduction
* Pay slip

2.3 **User class and characteristics**

End Users

* No specific knowledge or skills are required from the end user.
* End user should have basic idea about computer operations and database.

**2.4 Operating environment**

* Database: MySQL
* Operating system: Windows

**2.5** **Design and Implementation Constraints**

* High performance
* User-friendly,
* security based system,
* validation of users,
* very fast response.

## User Documentation

A link is provided for help and very easy user interface .

## Assumptions and Dependencies

Assume that all the information entered by the user will be correct. If any wrong information found then system will notify an alert.

# External Interface Requirements

## User Interfaces

1. Employee

* Creates an account
* Edit personal information
* View status

1. Admin

* Sets users
* Manages the whole system

## Hardware Interfaces

The system shall run on:

Operating system- Any Windows OS

Scripts which support Html and java script

Web Browser: Explorer, Google Chrome

## Software Interfaces

The system shall interface with an MySQL database. To implement this project we have chosen Html and java script scripting language for its more interactive and easy to understand support.

## Communications Interfaces

This system is supported in all browsers that supports html and css like google chrome and explorer.

# System Features

System features are organized by use cases and functional hierarchy so that the main functions of the system will be understandable

## Login

### **Description and priority**

Users of the system can use the system features only after the login. Login is used for identify the user is authenticated or not.

Priority: High

### **Stimulus/Response Sequences**

* Opens the login page
* Enter the username and password
* Or else register an account
* Validate the user
* Displays user homepage

### **Functional requirements**

* Username and password

## Recover forgot password

**4.2.1 Description and priority**

If user forgot the password then he can ask for reset of password.

Priority is set high.

4.2.2 **Stimulus/ Response sequences**

* Opens login page
* Click forgot password
* New password sent to his/her email
* Confirmation message is shown

# Other nonfunctional requirements

# 5.1Performance Requirements

As this is a web application it will run on almost every computer. Its functions and features are not computationally intensive. It does not require a powerful processor or graphics card, much RAM, or disk space. It only requires a latest browser.

## Safety Requirements

This application as all the other web application requires the Internet availability, and is also requires that the user should keep his private keys safe and secure and the same should not be shared with any one.

## Security Requirements

User should keep his key safe. The system or the place where the key is stored should not be public. In the case if the user loses his key then he/she should immediately inform the system admin.

## Software Quality Attributes

**Client Side Quality Attributes:**

The application provides a quite user-friendly interface with its operations accessible from the menu bar and the main toolbar. An average or casual user should not find any problem using the program to perform at least its main functions.

Interoperability is guaranteed since this program runs on both Mac and PC (Linux,

Windows or other operating system).

**Server Side Quality Attributes:**

Along with that our system provides the server which is scalable so that it can meet up any future requirements and is easily upgradeable.

Admin can take a backup on a regular interval so in case of any failure or damage system can be restored easily.

## Business rules

Administrative Tasks:

* Can approve or deny the leave applications of the employees working under his hierarchy.
* Can see the leave history of a particular employee.
* Can define the custom rules in the system.
* Can generate the report.

User tasks:

* Can view his leave balance.
* Can apply for new leave and check the status of the application

**6.Other Requirements**

Appendix A: Glossary

Appendix B: Analysis Models

Appendix C: To Be Determined List