
Software Requirements Specification

for

Creating Database for Company

Version 1.3

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Revision History

Name	Date	Reason For Changes	Version
OhSeok Shin	2018-02-17	Creating draft	1.1
OhSeok Shin	2018-03-24	Modifying	1.2
OhSeok Shin	2018-04-30	Review	1.3

1. Introduction

1.1 Purpose

This project is to minimize the paper work and to prevent complexity of managing employee, material, and work hours. Producing this software would make the business more accurate and clear by managing the overall company works.

1.2 Intended Audience and Reading Suggestions

This document is intended for project managers, marketing staff, users and specially developers. The project developer needs to pay attention on System feature section.

1.3 Product Scope

By providing the employee list of each department, the software makes Chief and manager easy to assign employees for tasks. The job will be subdivided, so then employees can be paid justly. Building the databases for the overall company works, employees and materials are possible to get the opportunity of saving the time and money to managing them.

1.4 References

<https://www.w3schools.com/>
<https://fontawesome.com/icons/>
<https://getbootstrap.com/docs/4.1/content/reboot/>

2. Overall Description

2.1 Product Perspective

This system will consist of two parts: one employee list and one material list. The employee list has the system that manages which employee has done on which work and calculates their payment for the job. Material list managing system categorizes all required materials and their information (price, size, company, supplied date, usage, etc.) clearly. All the information is saved into the database.

2.2 Product Functions

- Arrangement of employee's work and payment.
- Categorizing of construction materials

- Saving the information into the database.

2.3 User Classes and Characteristics

Manager can directly control by updating and modifying the data. Normal user can only open and see the list and information. The usage of software is mainly at the morning.

2.4 Operating Environment

Information are uploaded on the company's web database. Anyone who has the authority of access can open anywhere, anytime with their computer or smartphone.

2.5 Design and Implementation Constraints

Because of the lack of specialized security system, the project would need to review from the expert.

2.6 User Documentation

On-line help and tutorials provide enough explanation for system.

- W3school : <https://www.w3schools.com/>

2.7 Assumptions and Dependencies

One assumption about the software is that all the information will saved on the internet. In case of the internet has been disconnected, manager always needs back-up the data on their computer.

3. External Interface Requirements

3.1 User Interfaces

- Figure 1: Log-in
- Figure 2: Manu page
- Figure 3: Employee list
 - Insert
 - Update
 - Delete
 - Search
 - ◆ Name
 - ◆ Job
 - ◆ Project
 - ◆ Pay

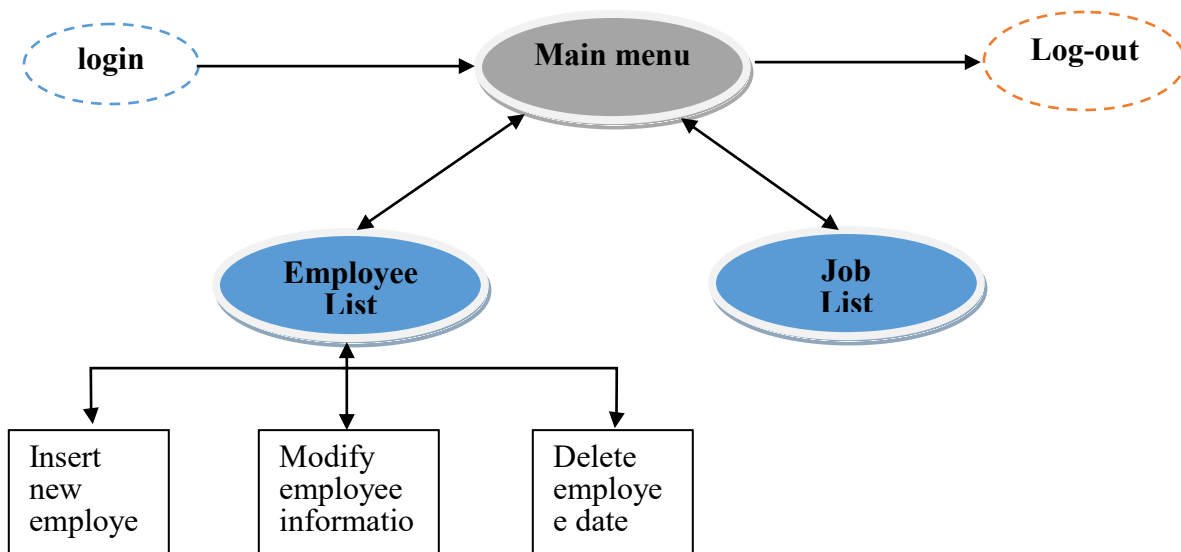
- Figure 4: Materials list

- Category
- Name
- Price
- Inventory
- Usage

3.2 Hardware Interfaces

Web database doesn't need any designated hardware.

3.3 Software Interfaces



3.4 Communications Interfaces

Using HTTP with sql can cause the issue of security problem during the data transfer, such as sql injection.

4. System Features

4.1 System Feature 1

4.1.1 Description and Priority

4.1.2 Stimulus/Response Sequences

4.1.3 Functional Requirements

5. Other Nonfunctional Requirements

5.1 Performance Requirements

The software is based on PHP and MySQL. It should be written with sql

5.2 Safety Requirements

In case of disconnect from the internet or web server broken, manager need to save the information on their office computer regularly.

5.3 Security Requirements

This project is for the chief and resource managers. This software cannot be modified by general employees, but the chief and field supervisor. To access the software, it is necessary to put their last name and password. It prevents mistakes from lower rank employees and build manager's responsibility more. General employees only can open and check the list.

5.4 Software Quality Attributes

5.5 Business Rules

The CEO has the ultimate decision in all issues

6. Other Requirements

Database requirements, Legal requirements are needed

Appendix A: Glossary

Manager	Officers who managing the information in the database
Normal user	Mainly lower rank employees
Developer	Developer who works on this project
Log-in	Certification of users

Appendix B: Analysis Models

Appendix C: To Be Determined List

- Security issue
- Specific category
- Calculate system