

Software Requirements Specification

for

TimeKeeping And Salary Calculator System

Prepared by: Bui Ngoc Son

August,14, 2022

Table of Contents

Table of Contents	2
Revision History	Error! Bookmark not defined.
1. Introduction.....	3
1.1 Purpose.....	3
1.2 Project Scope and Product Features.....	3
1.3 References.....	3
2. Overall Description	3
2.1 Product Perspective.....	3
2.2 User Classes and Characteristics	3
2.3 Operating Environment.....	3
2.4 Design and Implementation Constraints	3
2.5 User Documentation	4
2.6 Assumptions and Dependencies	4
3. System Features	4
3.1 Order Meals	Error! Bookmark not defined.
3.2 Create, View, Modify, and Delete Meal Subscriptions	Error! Bookmark not defined.
3.3 Register for Meal Payment Options.....	Error! Bookmark not defined.
3.4 Request Meal Delivery	Error! Bookmark not defined.
3.5 Create, View, Modify, and Delete Cafeteria Menus.....	Error! Bookmark not defined.
4. External Interface Requirements	4
4.1 User Interfaces	Error! Bookmark not defined.
4.2 Hardware Interfaces	5
4.3 Software Interfaces	5
4.4 Communications Interfaces	Error! Bookmark not defined.
5. Other Nonfunctional Requirements.....	5
5.1 Performance Requirements	5
5.2 Safety Requirements	5
5.3 Security Requirements	5
5.4 Software Quality Attributes	6
Appendix A: Data Dictionary and Data Model.....	Error! Bookmark not defined.
Appendix B: Analysis Models.....	Error! Bookmark not defined.

1. Introduction

1.1 Purpose

The purpose of this document is to build a system TimeKeeping And Salary Calculator System according to the days of attendance on the website to facilitate management and clarification in paying employees.

Timesheets allow businesses to not only see how many hours their staff are working, but **how effective they are at their tasks**. A good timesheet solution will provide a simple way to record working hours and a variety of methods to filter data. It may also automate tasks that might otherwise take many working hours to complete.

1.2 Project Scope and Product Features

The TimeKeeping And Salary Calculator System will permit employees mark attendance, check salary and even view their attendance.

1.3 References

1. Bùi Ngọc Sơn – HE153647

2. Overall Description

2.1 Product Perspective

The TimeKeeping And Salary Calculator System is a new system that replaces the current manual registers which stored the employee's attendance, salaries, leaves and shifts.

2.2 User Classes and Characteristics

Employee	Employee will have limited rights in the website. System will register the employee when he joins the company. Employee will be able to login/logout of the website. He can also track his attendance as well as leaves. He can also view his salary.
----------	---

2.3 Operating Environment

- OE-1: The TimeKeeping And Salary Calculator System shall operate with the following: localhost/1433
- OE-2: The TimeKeeping And Salary Calculator System shall operate on a system supporting Framework Spring Boot **2.7.2**

2.4 Design and Implementation Constraints

- CO-1: The website's design, code, and maintenance documentation shall conform to the Apache NetBeans IDE13

CO-2: The website shall use the Microsoft SQL 2019 database engine.

CO-3: All scripts shall be written in Java/Javascript

2.5 User Documentation

UD-1: Website will provide a user guide through a screen with the extension \howtouse

2.6 Assumptions and Dependencies

AS-1: All the employee information will be available to the Administrator.

DE-1: The Operation of the TimeKeeping And Salary Calculator System in which the employee's salary depend on the number of work hours he puts in.

3. System Features

3.1 Attendance and salary calculation

3.1.1 Description and Priority

????????????@ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @

3.1.2 Stimulus/Response Sequences

Stimulus: User go to page

Response: The query system returns a page showing all employees, working time, salary coefficient, and temporary salary.

Stimulus: User edit data of time attendance and click to save button

Response: System give a notice save successfull if system save new data to database successfull

4. External Interface Requirements

4.1 User Interfaces

UI-1: The TimeKeeping And Salary System screen display HTML page to display all employees and how long they work in a particular week of 1 month

Example:

TT	Họ và tên	Ngày trong tháng																															Quy ra công				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Trực ngày thường	Trực ngày nghỉ	Trực lễ	Tổng	
1	Trần Xuân Dương							TN						TT						TT						TT						TT	4	1		5	
2	Võ Thị Thuý		TT						TN						TN						TT						TT						3	2		5	
3	Trần Thị Anh Thơ			TT						TT						TN						TN						TT						3	2		5
5	Ng. Thị Vân Anh				TT						TT						TT						TN						TN					3	2		5
6	Đào Thị Huệ					TT						TT						TT						TT						TN				4	1		5
7	Ng Huy Nhật Thật	TN					TT						TT						TT							TT					TT			5	1		6
Tổng																																		22	9	0	31

4.2 Hardware Interfaces

No hardware interfaces have been identified.

4.3 Software Interfaces

SI-1: Automated Attendance System

SI-1.1: The system will allow the employee to view their attendance through the attendance interface.

SI-1.2: The employee will be able to view their salary through the payroll interface.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

PE-1: The system shall accommodate 50 employees .

5.2 Safety Requirements

No safety requirements have been identified.

5.3 Security Requirements

SE-1: The employee shall be required to login and logout through the Automated Attendance System for all the rights restricted to him.

SE-2: Administrator will have all the rights of the system such as registering employees, allotting leaves, editing/deleting employee records.

SE-3: Employee can only view his attendance, check is salary and view personal information.

5.4 Software Quality Attributes

Availability-1: The Automated Attendance System shall be available to the employees 99.9 % of the time from 7:00 A.M to 6:00 P.M in the evening.

Data Dictionary and Data Model

Emolyee :

RollNumber: varchar 20

Full name: varchar 50

Adderess :var char 150

Birthday: date format MM/DD/YYYY *

Coeficients salary: double 50

Attendences:

Id int

checkIn datetime format MM/DD/YYYY *

checkOut datetime format MM/DD/YYYY *

note: nvarchar 100

EmployeeID: int

TimeKeeping exception:

Id: int

Note : varchar 150