Payroll Management System for Information Technology Company

Version 1.0

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 05/11/2019 | 1.0 |  | Quản Trọng Tú |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table of Contents

1. Introduction 4

1.1 Purpose 4

1.2 Scope 4

1.3 Definitions, Acronyms, and Abbreviations 4

1.4 Overview 4

2. Functionality 4

2.1 Administrator 4

2.2 Accountant 5

2.3 Employee 5

3. Usability 5

3.1 Navigation 5

3.2 Language 5

4. Reliability 5

4.1 Availability 5

4.2 Mean Time Between Failures (MTBF) 5

4.3 Mean Time to repair (MTTR) 5

4.4 Accuracy 5

5. Performance 6

5.1 Response times for application transactions 6

5.2 Throughput 6

5.3 Capacity 6

6. Supportability 6

6.1 Maintenance 6

6.2 Extensible 6

7. Design Constraints 6

8. Online User Documentation and Help System Requirements 6

8.1 Customer support center 6

9. Purchased Components 6

10. Licensing Requirements 6

11. Legal, Copyright, and Other Notices 6

# Introduction

The introduction of the **Supplementary Specification** provides an overview of the entire document. It includes the purpose, scope, definitions, acronyms, abbreviations, references, and overview of this **Supplementary Specification**.

The **Supplementary Specification** captures the system requirements that are not readily captured in the use cases of the use-case model. Such requirements include:

* Legal and regulatory requirements, including application standards.
* Quality attributes of the system to be built, including usability, reliability, performance, and supportability requirements.
* Other requirements such as operating systems and environments, compatibility requirements, and design constraints.

## Purpose

The purpose of the Supplementary Specification is to capture the system requirements that are not readily captured in the use cases of the use-case model. It includes requirements such as legal and regulatory requirements, application standards, quality attributes of the system to be built (usability, reliability, performance, and supportability requirements) and other requirements such as operating systems and environment, compatibility requirements and design constraint.

## Scope

This Supplementary Specification applies to the SDMS, which will be developed by the Meeting ViewPoint(MVP) development team. The MVP team will develop a customizable, decentralized system that allows individuals or organizations; to easily, efficiently, and precisely schedule meetings in accordance with practical limitations of virtual and real-world meetings.

## Definitions, Acronyms, and Abbreviations

* UML: Unified Modeling Language
* GUI: Graphical User Interface
* Administrator: Manage Payroll Application
* Employee: Main actor who was directed
* Accountant: Calculating and release salary

## Overview

The Supplementary Specification will provide a detailed description of the Payroll Management System. This document will provide the outline of the requirements, overview of the characteristics and constraints of the system.

# Functionality

## Administrator

*2.1.1 The system shall allow the administrator to add employees.*

*2.1.2 The system shall allow the administrator to remove employees.*

*2.1.3 The system shall allow the administrator to update employees.*

*2.1.4 The system shall allow the administrator to view employees.*

*2.1.5 The system shall allow the administrator to export file of profile employees.*

*2.1.6 The system shall allow the administrator to approve employee leaves.*

*2.1.7 The system shall allow the administrator to reject employee leaves.*

*2.1.8 The system shall allow the administrator to change password.*

*2.1.9 The system shall allow the administrator to announce report.*

*2.1.10 The system shall allow the administrator to add project.*

*2.1.11 The system shall allow the administrator to remove project.*

*2.1.12 The system shall allow the administrator to update project.*

*2.1.13 The system shall allow the administrator to view and update project.*

*2.1.14 The system shall allow the administrator to view employee roles.*

*2.1.15 The system shall allow the administrator to update employee roles.*

*2.1.16 The system shall allow the administrator to view employee department.*

*2.1.17 The system shall allow the administrator to update employee department.*

## Accountant

*2.2.1 The system shall allow the accountant to approve employee feedbacks.*

*2.2.2 The system shall allow the accountant to reject employee feedbacks.*

*2.2.3 The system shall allow the accountant to view employee profile.*

*2.2.4 The system shall allow the accountant to release employee salary.*

## Employee

*2.3.1 The system shall allow the employee to apply employee feedbacks.*

*2.3.2 The system shall allow the employee to apply employee leaves.*

*2.3.4 The system shall allow the employee to view own employee profile.*

*2.3.5 The system shall allow the employee to change own feedback.*

# Usability

## Navigation

* The connection between many frames to represent the view which interact with users.
* Estimated time for each operation is fast in ideal condition.
* A little time training is required for the users.

## Language

* Use popular language: English

# Reliability

## Availability

The application is 100% of time available.

## Mean Time Between Failures (MTBF)

On average the application should be designed to meet a mean time between failures of 6 months or greater

## Mean Time to repair (MTTR)

* If system downtime occurs the system support staff should be notified immediately. This will be achieved by real-time monitoring of the systems.
* Accuracy – specify precision (resolution) and accuracy (by some known standard) that is required in the systems output.

## Accuracy

The application is 100% of accuracy.

# Performance

## Response times for application transactions

The application shall provide a repeatable response and must provide acceptable response times to the user.

2 minutes

## Throughput

## Capacity

The system shall be capable able of supporting <1000> concurrent users

# Supportability

## Maintenance

The system will allow for scheduled downtimes after 6 months from for performing maintenance on the systems.

## Extensible

The system should be built so that it can be extended to support additional functionality in future releases

# Design Constraints

* Java – The Java programming language is used to develop all the Enterprise Java Beans (EJB) components. Business logic should be handled in the business layer by the EJB components.
* SQL – Structured Query Language (SQL) is used to access relational databases. All of the interactions with the database system are conducted using SQL.
* User development tools: Netbeans , Xampp
* Data layer – Data that is stored in databases is retrieved using JDBC.

# Online User Documentation and Help System Requirements

## Customer support center

* The customer support center is open <24/7> to assist users by phone, email
* All e-mail messages sent to customer support will receive an automatic response immediately and response from an individual within 24 hours.

# Purchased Components

No required.

# Licensing Requirements

License belongs to computer shop who purchased the Payroll Management System from Group …. - class 1C17 HANU and agreed on the maintenance contract

# Legal, Copyright, and Other Notices

2019 Copyright to Group … – class 1C17 HANU. All rights reserved.