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# **Software Requirements Specification**

**for**

## **Employee Payroll and Task Management System**

**Version 1.0 approved**

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## Revision History

Name	Date	Reason For Changes	Version

# **1. Introduction**

## **1.1 Purpose :**

This Document includes software requirements for the Employee payroll and Task Management System. Employee attendance, Payroll accounting, Task Management, Salary calculations, etc are the main objectives of this web application. In this application Administrator creates branches and he assign Branch manager in each branch. Branch manager will add employees to his branch and he assign tasks to his employees. Administrator is the main user of this web application and Branch manager will manage employee records.

## **1.2 Document Conventions**

All headings were written in Bold case with numberings. The content is written in Arial Font and size 11.

## **1.3 Intended Audience and Reading Suggestions**

The different types of readers that the document is intended for are developers, project managers, marketing staff, users, testers, and documentation writers. The rest of this SRS contains the detailed report of the project .The sequence for reading the document is best to go according to the index.

## **1.4 Product Scope**

My project **Employee payroll and Task Management System** is an application created to check No. of employees in each branch, Employees records, Tasks and time frame, attendance records, salary details, etc. The employees can submit their attendance, and the managers can check employee attendance and his task details, etc. Also Branch Manager can calculate and disburse salary to his employees.

## **1.5 References**

1. [www.w3schools.com](http://www.w3schools.com)
2. <https://netbeans.org>
3. Database System Concepts-Korth
4. <https://www.mysql.com>

## **2. Overall Description**

### **2.1 Product Perspective**

The product will be developed completely independent and dynamic application. Only administrator, Branch manager and Employees can access this application by entering login id and password. This application stores all the information in the database which can be retrieved whenever needed and all the validations are performed during the entry of the data by the user thus ensuring that the user cannot enter any wrong data which could cause problem later.

### **2.2 Product Functions**

In this project administrator adds Branch manager records and he upload tasks to each branch. Branch manager create a team to assign tasks to his employees and also he will set time frame for the project. Daily employee submits attendance by entering Login Time and Logout time.

### **2.3 User Classes and Characteristics**

The users can be divided into three main classes:

**Administrator:** The administrator is a super user and he has complete control over all activities the can be performed. The administrator can view Branch details, Employee details, task details, salary details, etc.

**Brach Manager:** The branch manager who handles employees and he assign tasks to his employees.

**Employees:** Employees are the co-workers and they will complete the task given by the branch manager.

### **2.4 Operating Environment**

Operating Environment for this project is listed below:

- Operating System : Windows 10
- Database: MySql
- Platform: NetBeans

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

- There is no maintainability of back up so availability will get affected.
- Limited to Netbeans.
- Real-life credit card validation and Banking system is not implemented.
- No multilingual support

## **2.6 User Documentation**

- GUI is only in English.
- The User should know how to use a computer
- Limited to Netbeans.

## **2.7 Assumptions and Dependencies**

- The code should be free with compilation errors/syntax errors.
- The product must have an interface which is simple enough to understand.
- All necessary hardware and software are available for implementing and use of the tool.
- The proposed system would be designed, developed and implemented based on the software requirements specifications document.
- End users should have basic knowledge of computer and we also assure that the users will be given software training documentation and reference material.
- The system is not required to save generated reports.
- Administrator is created in the system already.

# **3. External Interface Requirements**

## **3.1 User Interfaces**

- The software provides good GUI for the front end which is self explanatory.
- The system contains convenient frames, dropdown menus and options.
- The developer will have to study the designing of the product.
- User gets the warnings with necessary assistance from the application.

## **3.2 Hardware Interfaces**

**Processor** : Dual core and above

**RAM** : 1 GB and above

**Hard Disk Utilization** : 10 GB and above

**Input Devices** : Mouse, Keyboard, etc

**Output Devices** : Monitor, Printer, etc

### **3.3 Software Interfaces**

**Software requirements are:**

**Operating System:** windows 10

**Front-end:** Java

**Back-end:** MySQL Server 5.3.1

**Platform :** NetBeans

### **3.4 Communications Interfaces**

This project is not made for online purpose but is actually an application for a private firm to keep records.

## **4. System Features**

Some Performance requirements identified is listed below:

- The database shall be able to accommodate a minimum of 1,000 records of Users.
- The software shall support use of multiple users at a time.
- There are no other specific performance requirements that will affect development.

### **4.1 Home Page**

#### **4.1.1 Description and Priority**

Highest priority. Home page is the first page of the website. Home page contains the information of company and Login page.

#### **4.1.2 Stimulus/Response Sequences**

First the user will be asked to register. If the user is already registered then it will automatically be logged in.

#### **4.1.3 Functional Requirements**

In the case of invalid credentials the User would not be granted access.

REQ-1: Login Ids

REQ-2: Password

## **4.2 Employee Module**

### **4.2.1 Description and Priority**

In this page Administrator will add employee record by entering Employee profile, Experience details, Payroll details, etc.

### **4.2.2 Stimulus/Response Sequences**

The Administrator will add the details of the employee or edit the details.

### **4.2.3 Functional Requirements**

The Administrator will require the  
REQ 1: Login id of the employee  
REQ 2: Name of the employee  
To make changes to the records.

## **4.3 Project Module**

### **4.3.1 Description and Priority**

In this page admin will add different projects and he will schedule Time frame Start time and End Time for those projects.

### **4.3.2 Stimulus/Response Sequences**

Find the employee using login id and then mention the start and end date of the projects.

### **4.3.3 Functional Requirements**

REQ 1: Login id of the employee  
REQ 2: Name of the employee

## **4.4 Task Module**

### **4.4.1 Description and Priority**

In this module branch manager or supervisor will assign the task to the employees of the company.

### **4.4.2 Stimulus/Response Sequences**

He will create team and assign task to his team members.

### **4.4.3 Functional Requirements**

REQ 1: Login id of the employee

REQ 2: Name of the employee

## **5. Other Nonfunctional Requirements**

### **5.1 Performance Requirements**

Performance requirements define acceptable response times for system functionality.

- The load time for user interface screens shall take no longer than five seconds.
- The log in information shall be verified within five seconds.
- Queries shall return results within five seconds.

### **5.2 Safety Requirements**

- In order to prevent data loss in case of system failure, the result of the already saved records have to be saved in the database, for the system to resume the counting process on reboot.
- In case the admin detects any security lapse in the system, he should be able to shutdown the application and close all connections immediately while preserving the already saved records.
- The system should be capable of gracefully recovering from earlier crashes and continuing the voting process.

### **5.3 Security Requirements**

- Encrypted Password.
- Administrator has more rights than the sub user.



## **5.4 Software Quality Attributes**

The Quality of the System is maintained in such a way so that it can be very user friendly to all the users. The software quality attributes are assumed as under:

- Accurate and hence reliable.
- Secured.
- Fast speed.
- Compatibility.

## **5.5 Business Rules**

*Only that company which has the rights to use the software can use this application and cannot sell or distribute this software without the permission of the developers.*

# **6. Other Requirements**

NONE

## **Appendix A: Glossary**

SRS - Software Requirements System

OS- Operating System

MySql- BackEnd Database

PC – Personal Computer

GUI – Graphical User Interface

MB / GB – Mega Byte/ Giga Byte

RAM – Random Access Memory