**SOFTWARE REQUIREMENTS SPECIFICATION**

**1. Introduction**

Payroll system is the heart of any Human Resource System of an organization. The solution has to take care of the calculation of salary as per rules of the company, income tax calculation and various deductions to be done from the salary including statutory deductions like Income tax and provident fund deductions. It has to generate pay-slip, cheque summary and MIS reports.

It is understood that we are tired of managing thousand of odd papers, pay slips, payroll reports, and salary details and so on. Imagine that we have a payroll processing system which will generate our pay slips and payroll reports within seconds. We can help others automated your payroll system by developing a customized payroll application that suits your specific requirements.

**1.1 Purpose**

Main aim of developing Employee Payroll Managementis 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.

We are committed to bring the best way of management in the various forms of **EPM.** We understand that **EPM** in not a product to be sold, it is a tool to manage the inner operation of Company related to employee leave and Payroll.

**1.2 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.

**1.3 Benefits**

* To improve the efficiency.
* Quickly find out information of an employee details.
* To provide easy and faster access information.
* To provide user friendly environment.

**1.4 Definitions, Acronyms, Abbreviations**

**Visual Basic .NET** (**VB.NET**) is an [object-oriented](http://en.wikipedia.org/wiki/Object-oriented_programming) [computer programming language](http://en.wikipedia.org/wiki/Programming_language) that can be viewed as an evolution of the classic [Visual Basic](http://en.wikipedia.org/wiki/Visual_Basic) (VB) which is implemented on the [.NET Framework](http://en.wikipedia.org/wiki/.NET_Framework).

**Microsoft SQL Server** is a [relational model](http://en.wikipedia.org/wiki/Relational_model) [database server](http://en.wikipedia.org/wiki/Database_server) produced by [Microsoft](http://en.wikipedia.org/wiki/Microsoft).

SRS - Software Requirements Specification.

**EPM** - Employee Payroll Management

**1.5 References**

* Programming Visual Basic .NET, Second Edition by Jesse Liberty
* Jones and Bartlett Publishers - Essential SQL on SQL Server 2008, 2011
* Software Engineering by “Ian Sommerville “.

**1.6 Project Overview**

The following subsections provide the complete overview of the software specifications requirements documentation for the product Employee Payroll Management. The entire SRS is documented in view of User and the following sub sections are arranged to give a complete outlook of the software, its perspective, features, system requirements and users know how it is.

**2. Overall description**

**2.1 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 functions**

**2.2.1 Master module**

* Designation
* Department

**2.2.2 Employee module**

* Employee details

**2.2.3 Search module**

**2.2.4 Attendance module**

* Leave
* Attendance
* Managing Leave

**2.2.5** **Salary module**

* Allowance
* Deduction
* Pay Slip

**2.2.6 Report module**

**2.3 User Characteristics**

**2.3.1 End Users**

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

**2.3.2 Administrator**

* Administrator must be having good knowledge of database management system.
* Administrator must be capable to manage user rights.
* If the network connection does not work properly than our system should not work as

intended.

* Also that is assumed that the product is installed properly at web server.
* This system will not take care of any virus problem, which might occur either on the

client or the server system. Avoiding the use of pirated software and ensuring that floppies and other removable media are scanned for viruses before use could minimize the possibility of viral infection.

* Recovery of data after a system crash will be possible only if backups are taken at regular intervals.
* Manual interfaces cannot be fully avoided. Documented proofs like data entry of employees etc. will have to be verified by the concerned management staff before entering it into the computerized system.

**2.4 Assumptions and Dependencies**

**Assumptions:**

* The code should be free with compilation errors/syntax errors.
* The product must have an interface which is simple enough to understand.

**Dependencies:**

* 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.

3 Specific requirements

3.1 External interface requirements

3.1.1 User interfaces

The software provides good graphical interface for the front end which is self explanatory.

3.1.2 Hardware interfaces

* Memory minimum of 1GB RAM
* Hard disk of 40 GB
* Monitor
* Mouse
* Keyboard
* Printer

3.1.3 Software interfaces

* Operating System Windows XP.
* Front End Microsoft VB.Net 2008
* Backend MS SQL Server 2008

3.1.4 Communication interfaces

Windows Forms

3.2 Functional requirements

**3.2.1 Masters:**

This module helps the administrator to enter the designation and the related description. It also helps to add the department.

**3.2.2 Employee:**

This module helps to add the details of the employee like the personal detail and the employee detail.

**3.2.3 Search:**

This module helps to search the employee details department wise and designation wise.

**3.2.4 Attendance:**

This module helps to different types of leave for different year. It also helps the employee to enter their entry and exit time. Using the attendance module the employee can also check their remaining leaves and also apply for the leave.

**3.2.5 Salary:**

This module helps to calculate the salary by adding the allowances and the basic salary and by deducting the deductions based on the leaves and also the PF, ESI. It also helps to generate the employee pay slip.

**3.2.6 Report:**

This module helps to generate the administrative reports like the Salary Report, Attendance Report and the Employee Report which is in can be exported to word, pdf.

3.3 Performance requirements

* The overall system should be fast and error free.
* It should have built in error checking and correction facilities.
* The system should be able to handle large amount of data comfortably.

3.4 Design constraints

* The system runs under Windows XP.
* The application is developed on VB.Net platform and SQL server 2008 as back end.

3.5 Attributes

**3.5.1Reliability**

In order to ensure reliability, this system is being designed using software that is established to be stable and easy to use.

**3.5.2Availability**

This system is designed to run 24/7 and be readily available to the user.

**3.5.3Security**

The access to the software is given only to valid operators. We need a specific ID and password to get access to the software.