REF: THSSPL/SOFTADMIN/IISc-102017

Software Requirements Specification

for

EIMS1A,EIMS1B

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# INTRODUCTION

## 1.1 Name and purpose of software:

**EMPLOYEE INFORMATION MANAGEMENT SYSTEMS(EIMS)**

The **Employee Information Management System (EIMS**) is developed to Computerize the administrative work of Establishment Division for Category-B , Category-C and Category-D employees. This system will help in carrying out all administrative work of the Establishment Section and help in generating reports for analyzing and future planning.

## 1.2 Product Scope:

The **Employee Information Management System (EIMS**) is developed to Computerize the administrative work of Establishment Division for Category-B , Category-C and Category-D employees. It maintains the records of the employees and also provides the security of the information. The EIMS application is bifurcated in to two sections viz., UNIT-1A and UNIT-1B to ease of maintaining the information.

## 1.3 Objective of Project:

Recording and retrieval of Statistical Information of the employees, to retrieve fast and accurate Information of the employees and to provide the Security of Information and provide access for Multi users.

## 1.4 Benefits

To make the function of Establishment Division smooth and ease of maintaining information, it is bifurcated in to two sections viz., UNIT-1A and UNIT-1B. The functionalities of each section is briefly brought out here.

EIMS is the master data for all the other data where it is used at the time of registration to store the all the details of the employees which is further used for the LBF, MBF, Pension..etc.

# Overall Description

## 2.1 Product Perspective

As mentioned earlier, EIMS1A,EIMS1B AND QMS management system that run on the windows based applications. EIMS1A,EIMS1B and QMS is responsible for Recording and retrieval of Statistical Information of the employees, to retrieve fast and accurate Information of the employees and to provide the Security of Information and provide access for Multi users. The details of various interfaces have been provided further.

## 2.2 Product Functions

The functionalities of each section is briefly brought out here.

UNIT-1B :

1. Recruitment process
2. New Employee Registration
3. Service Register Maintenance
4. Employee Information Modification
5. Increment
6. Leave maintenance
7. Mutual Benefit Fund processing
8. LTC/HTC of employees
9. Maintenance of Division/Department/Designation/Pay scale Master Information
10. Quarters and Guest House allotments
11. Trainees and Temporary employees master maintaining

UNIT-1C :

1. Evaluation and Promotions
2. Negotiations
3. Pay Fixations

## 2.3 User Characteristics

There are essentially four classes of users for the EIMS1A and EIMS1B,

Administrator approves what all the things done by case supervisor. Supervisor approve what all the things done by the case workers. Case Workers can perform leave sanction, increment, Recruitment process New Employee Registration, Service Register Maintenance, Employee Information Modification, Increment, Leave maintenance, Mutual Benefit Fund processing, LTC/HTC of employees Maintenance of Division/Department/Designation/Pay scale Master ,Information, Quarters and Guest House allotments, Trainees and Temporary employees master maintaining

## 2.4 Constraints:

## The current constraints on the project are related to the provision of hardware resources to implement and test a high-performance cluster. At present, Processor64-bit, four core RAM For development:4 gigabytes (GB) For evaluation or single-server production use: 8 GB For multiple-server production use: 16 GB. The following memory amounts are recommended for the computer that is running SQL Server in a production environment.

## 2.5 Operating Environment:

* **Hardware –Minimum configuration required are**

Application Server - Windows 8.1 Server

Processor - Core I5 and above

RAM - 16GB and above

HD Capacity - 2 TB and above

Network card speed - 100 MBPS or above

Client System - Windows 8.1 Professional

Processor - Core I5 and Above

RAM - 8 GB and above

HD Capacity - 1 GB and above

Network Card Speed - 100 MBPS or above

Micro Soft Networking - LAN with NET BEUI Protocol.

* **Programming Environment** :

Software Development : Microsoft Visual Studio 2012

Data base :MS SQL SERVER 2008

Report Generation :SEAGATE CRYSTAL REPORT 8.0

All Web related functions are developed using ASP.NET MVC4 Technology.

## 2.6 Product Features:

The major feature of EIMS Database system as shown in below entity-relationship model (**ER model**)

## 2.7 User Documentation

A user manuals that will be delivered along with the software.

# System Features

3.1.1 Functional Requirements:

* Registered users shall be able to login to the system by providing Username and password
* Upon successful login users shall be redirected to the Landing page of the system.
* If the credentials are not correct, then "Error Login" message shall be prompted.

# Non-Functional requirements

* Performance: Upon providing the correct username and password, User shall be redirected to loading page within 5 seconds.
* The login platform will behave same in different platforms.
* The system shall be portable enough for various devices.

## 4.1 Software Quality Attributes:

### 4.1.1: Availability

* The system shall be available 24\*7.

### 4.1.2: Maintainability

* The system is being developed in ASP/NET MVC4.It is easy to maintain.

### 4.1.3: Portability

* The EMPLOYEE INFORMATION MANAGEMENT SYSTEMS(EIMS) will run in any Microsoft Windows Environment.

# Stakeholder Requirements:

* As an application admin of the system, the admin shall be redirected to the administrator's landing page upon successful login.

# Requirement Specifications:

***6.1 Conversion***

The current application is built and running on the VB6 platform and we converting it to the latest technology ASP.NET MVC4.

Project Name Total No of layers Total No of Pages No Of Sprints No pages per associate Per Sprint 2 Associates Per Sprint Per

Associate

**EIMS 1A 1 Page=4 Layers 339 56.5 169.5 28.25 14.12**

***6.2 Technologies***

* **Hardware –Minimum configuration required are**

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Network card speed - 100 MBPS or above

Client System - Windows 8.1 Professional

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***6.3 Architecture***

**High Level Architecture** ***6.6 Merging DBS***

**EIMS DATABASE**

**Promotion**

**Increments**

**LTC/HTC**

**Leave**

**Service Registry**

**Employee Info**

**Temporary Appointment**

**Pension**

**Reports**

**Retirement**