**EMPLOYEE LEAVE MANAGEMENT SYSTEM**

**High Level Design**

**Document Control:**

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| **Employee Leave Management System:** | | | | | | | | |
| Guided by – Prof. Sikander |  |  | |  |  |  |  |  |
| **Date** | **Version** | **Author** | **Brief Description of Changes** | | | | **Approver Signature** | |
|  | 1.0 | Rushikesh, Chinar, Janhavi,  Prachit,  Ruthika |  | | | |  | |
|  | 2.0 | Rushikesh, Chinar, Janhavi,  Prachit,  Ruthika | Password validation  in login () | | | |  | |
|  |  |  |  | | | |  | |

**Introduction**

1. **Purpose:**

The main purpose of this project is to develop an online leave management system that will allow the employees to apply for leave anywhere, anytime as long as they can access the internet.

**1.1 Intended Audience**:

There is no such specific audience, it could be an Employee.

**1.2 Project Purpose:**

Now a days, the best way to manage your employee leave and absence is to create and maintain an effective leave management where every process is automated. It will assist you to set up request and approval procedures, outline and monitor employees’ schedules and see when leave absence has occurred.

**1.3 Key Project Objectives:**

* The system should allow the employee to Register and apply for the leave.
* Allow users to check if he/she is eligible to get the leave.
* The system will allow employees who have created accounts to log into the system, using their Employee ID and passwords.

**1.4 Project Scope and Limitations:**

The employee can be able to register on the application then only they can login to the portal to access the primaries.

**1.4.1 In Scope:**

The system is an online leave management system for leave applications review process usable in any organization and customizable to be used in different business environments. A simple interface will be in place making it easy and simple to use for all employees and management.

**1.5 Functional Overview:**

The following Functions are included in the program:

1. **new\_employee\_registration()**
2. **int employee\_login()**
3. **int login\_interface()**
4. **void load\_user\_data()**
5. **int validate\_login()**

**2. Design Overview:**

|  |  |
| --- | --- |
| Name of the Module | Employee registration and Login |
| Handled by | Rushikesh, Prachit |
| Description | **Registration**: Name, date of joining, job role, password details store in file.  **Login**: search the given input in details file and allow login if details match.  After creating Account, he/she can successfully enter into the portal. |

**2.1 Design Objective:**

In Employee Leave Management System there are two objectives namely primary and secondary.

**Primary:**

To access the services provided by the application the employee needs to register and create account with their personal details (Name, date of joining, job role, password, etc) and the customer should login with a valid username and password.

**Secondary:**

The employee who are logged in can be able to access the services.

**2.1.2 User Interface Paradigms:**

The employee is to login with username and password. The details of the employees are stored in the files.

**2.1.3 Error Detection:**

The employee should create account or else the employee cannot access the primaries in the application. The registered user has to login with valid credentials otherwise, they will get invalid username and password.

**2.1.4 Performance:**

The application will work on the local server. The performance depends on the server dependency.

**2.1.5 Maintenance:**

To make the application more secure, the password is being masked. The authentication is setup for individual Employees or those who are registered into the application.

1. **Environment Description:**

**3.1 Time Zone Support:** IST-Kolkata

**3.2 Language Support:** English

**3.3 User Desktop Requirements:**

a. 64-bit processor, 1GHz or faster

b. At least 2 GB free hard drive space

c. At least 1 GB RAM

**3.4 Server-Side Requirements:**

a. 64-bit processor, 1 GHz or faster

b. At least 1 GB free hard drive space

c. At least 1 GB RAM

**3.4.1 Deployment Considerations:**

System is easy to deploy

**3.4.2 Integration Requirements:**

1. **Language**: C++

2**. Tools**: Valgrind , Make file,gcov

3. **Complier**: g++

4. **Software:** Putty,Ubuntu

* + 1. **Network:** End to End.

**3.5 Operating System:** Linux.