**Employee leave management System.**

# Description:

The **Employee leave management System** is an application used for the employees to apply for a leave and consists of basic information of an employee.

Here we have two types of logins:

* Admin Login
* Employee Login

**Admin Console:**

Admin console consists of the following Functionalities:

1. Create Employee account.
2. List of Employee Details.
3. Leave requests [leave table].
4. Delete Employee account.

**Employee Console:**

Employee console consists of the following Functionalities:

1. Displaying User details like { username, email-id, salary, pf-no, joining date, pan, leave balance }.
2. Leave Request.
3. Search for other employee details.
4. Changing Password.

**Database Tables:**

* Emp\_Creation\_Table
* Leave\_Request\_Table

**Work Division:**

AdminConsole module – Vinod Kumar Kotha.

LoginConsole module – Tejeswari Gandi.

Validation’s module – Salman Shaik.

Database module – Lava Kishore Dasu.

Documentation, Merging of Modules & Main Module – Rohit Prashanth Kannam.

**Code Documentation:**

1. **Admin Console Module:**

**Class AdminConsole**:

Description: Consists of 4 methods such as,

1. Create Employee account Method**:**

**def create\_emp\_account():**

*description:* Creates a new emp account by adding a row in the Emp\_Creation\_Table .

*What the function Returns*: Prints a message that a particular employee account is created.

1. List of Employee Details Method:

**def list\_emp\_details():**

*description:* Displays overall details from the Emp\_Creation\_Table.

*What the function Returns*: Returns a table of employee’s details.

1. Employees Leave requests Method:

**def emp\_leave\_request():**

*description:* Displays the leave requests of individual employee.

*What the function Returns*: Returns a table consisting individual employee requests.

1. Delete Employee account Method:

**def emp\_account\_del():**

*description:* Used to delete a particular employee account.

*What the function Returns*: prints a message that the particular account is deleted.

1. **Login Console Module:**

**Class LoginConsole:**

Description: Consists of 3 methods such as,

1. Leave Request Method:

**def request\_leave():**

*description:* Used to apply leave and creates a row in Leave\_Request\_Table.

*What the function Returns*: Prints a message that leave request is applied.

1. Search for other employee details Method:

**def emp\_search(emp\_username):**

*description:* Used to search and display an employee’s basic details.

*What the function Returns*: Returns a table consisting of searched employee’s basic details.

1. Changing Password Method:

**def change\_password(emp\_username):**

*description:* Used to change the specific employee’s temporary password which is created by Admin.

*What the function Returns:* prints a message that the specific employee accounts password has been changed.

3. **Database module:**

**Class Database:**

Description: Consists of database methods such as:

1. Create Table Method**:**

**def create\_table():**

*description:* Creates a new table called Emp\_Creation\_Table .

*What the function Returns*: Return a table consisting of relevant attributes

Such as {f name, l name, username, email\_id, password, emp\_salary, emp\_pf\_no, join\_Date, pan, leave balance}.

1. Read Table Method:

**def read\_table(emp\_username):**

*description:* Displays details of a specific employee from the Emp\_Creation\_Table.

*What the function Returns*: Returns details of specific employee.

1. Update Table Method:

**def update\_table(emp\_username,param1):**

*parameters:*

emp\_username – username of the employee to select a particular row from the Emp\_Creation\_table.

param1 – column to select and update that particular employee.

*description:* Displays the leave requests of individual employee.

*What the function Returns*: Returns a table consisting individual employee requests.

1. Delete Employee account Method:

**def delete\_row(emp\_username):**

*parameters:*

emp\_username – username of a specific employee to select a particular row from Emp\_Creation\_table for deletion.

*description:* Used to delete a particular employee row.

*What the function Returns*: prints a message that the particular account is deleted.

**4. Validation’s module:**

**Class Validation:**

Description: Consists of Validation methods such as:

1. Employee Creation validation Method:

**def emp\_creation validation(username,email):**

*description:* Used to validate the whether the given username is unique or not and checking the given email-id is valid or not .

*What the function Returns*: Return True if both validations are true, else Returns False.

2. Employee Leave request validation Method:

**def emp\_leave\_request\_validation(emp\_username, from\_date, to\_date):**

*description:* Checks the following validations:

1. checks the from\_date & to\_date arguments are correct format or not (dd/mm/yyyy).

2. checks whether the from\_date & to\_date arguments are same or not.

3. checks whether the leave balance is greater than the no.of days applied.

*What the function Returns*: Return True if all the validations are correct, else Returns False.