

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 Gandhi.

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.

2. 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.

3. 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.

4. 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.

2. 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.

2. 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.

3. 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}.

2. 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.

3. 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.

4. 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.