**LEAVE MANAGEMENT SYSTEM (LMS)**

* **How to run the App?**

We will run our Leave Management System App through **ng serve** command on **local** **host 4200.** This will direct to main Home page which consist of 3 departments namely:Admin,Employee,Manager.

Please use following Login credentials for each department:

1. Manager:

Email:uma@gmail.com

Password: uma1234

2. Admin:

Email:sai@gmail.com

Password: sairam1234

3. Employee:

Email:Sunishma@gmail.com

Password: sunishm1234

* **How does Backend works?**

Our App contains CRUD operations for all the departments like creating request, updating it, deleting request and viewing all request made. For all these functionalities the REST API calls like POST, PUT and GET are written in our Java code which takes performs the required actions and updates the database tables accordingly.

* **How to connect to Database?**

Create a New Connection, using default hostname and port. Username and password to be decided as per the user example in our case we had as root and Hexaware123. Test the connection after creating it to check whether it is connecting it successfully. In Database create tables which are required for our App. These tables will reflect the changes that will take place through Front-end system using Angular and back-end logic processing through Java REST API Calls

* List of Tables used:

1. Holiday

2. Employee\_Leave

3. Employee\_Details

* **Queries used for Record Creation:**

**1.Employee Table:**

**LMS-DDL:**

create table Employee\_Details (

Employee\_Id bigint(10) not null auto\_increment,

Employee\_LastName varchar(10) not null,

Employee\_FirstName varchar(20) not null,

Manager\_Id varchar(10),

Employee\_Phone bigint(10),

Employee\_Address Varchar(20),

Employee\_Email Varchar(40),

Employee\_Role Varchar(10),

Employee\_User\_Name Varchar(20) not null,

Employee\_Password Varchar(20) not null,

Employee\_Joining\_Date Date not null,

No\_of\_Leaves\_Applied int(25),

Image varchar(255),

constraint Emp\_Primary primary key(Employee\_Id)

);

**LMS-DML:**

insert into employee\_details

(Employee\_LastName,Employee\_FirstName,Manager\_Id,Employee\_Phone,Employee\_Address,Employee\_Email,Employee\_Role,Employee\_User\_Name,Employee\_Password,Employee\_Joining\_Date,No\_of\_Leaves\_Applied,Image)

values

('Suram','Sunishma Reddy','5',2034035674,'Atlanta,GA','sunishma@gmail.com','Employee','sunishma@gmail.com','sunishma1234','2019-09-15','','assets/suni.jpeg')

**CRUD Operation Queries:**

* select \* from employee\_details where Employee\_User\_Name='"+uname+"'
* INSERT INTO employee (id, name, hdate) VALUES (?, ?, ?)
* select \* from employee\_details d where d.Employee\_Id = (select Manager\_Id from employee\_details where Employee\_Id='"+i+"')"

**2.EmployeeLeaveTable:**

**LMS-DDL:**

create table Employee\_Leave

(

Employee\_Id bigint(10),

Leave\_Id int not null auto\_increment,

Leave\_Type varchar(20),

Leave\_Reason Varchar(40),

From\_Date date,

To\_Date date,

Leave\_Status varchar(10) default 'Pending',

constraint Leave\_Primary primary key(Leave\_Id),

constraint Emp\_Foreign Foreign key(Employee\_Id)

referencesEmployee\_Details(Employee\_Id)

);

**LMS-DML:**

insert into employee\_leave

(Employee\_Id,Leave\_Type,Leave\_Reason,From\_Date,To\_Date)

values

(1,'Sick','Hign Fever','2019-10-13','2019-10-15')

**CRUD Operation Queries:**

* select \* from employee\_Leave where Employee\_Id = '"+i+"
* select \* from employee\_leave
* update employee\_leave set Leave\_Status = '"+m+"' where Leave\_Id='"+i+"
* insert into employee\_leave (Employee\_Id,Leave\_Type,Leave\_Reason,From\_Date,To\_Date)\r\n" + "values (?,?,?,?,?)

**3.HolidayTable:**

**LMS-DDL:**

create table Holiday

(

Holiday\_Id bigint(10) not null auto\_increment,

Holiday\_Name varchar(100) not null,

Holiday\_Type varchar(50) not null,

Holiday\_Date date not null,

Holiday\_Day varchar(10) not null,

constraint Holiday\_Primary primary key(Holiday\_Id)

);

**LMS-DML:**

insert into holiday

(Holiday\_Name,Holiday\_Type,Holiday\_Date,Holiday\_Day)

values

("New Year's Day",'Federal','2019-01-01','Tuesday'),

("Birthday of Martin Luther King Jr.",'Federal','2019-01-21','Monday')

**CRUD Operation Queries:**

* insert into holiday (Holiday\_Name,Holiday\_Type,Holiday\_Date,Holiday\_Day) values (?,?,?,?)

**Overview :**

The Leave Management System is a Web-based system that enables the employee tosubmit leave requests. The leave request is forwarded to the employee is supervisor who approves it or denies it. Approved leave requests are forwarded to the administrator who approves or denies it. The Leave Management System keeps track of all these leave requests and calculates the leave balances of each employee.

**Features of Leave Management System:**

* submit and cancel leave requests
* view leave transaction details and tracking of number of leaves applied by employee
* approve, refuse, and forward leave requests
* add new Leave to the database and add new holiday
* update the leave database system