

PayRole Manager

DBMSL Mini-Project

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Abstract:

“Payroll Management System” is designed to make the existing manual system automatic with the help of computerised equipment and fullfleged computer software. Fulfilling client requirements, so that their valuable data and information can be stored for a longer period with easy access and manipulation of the same.

The web application can maintain and view records without getting redundant entries. This project ensures management of user data for good performance and provides better services for the client.

Introduction:

The project “Payroll Management System” has been developed to manage employee records, attendance and transactions in an automated process. Moreover this system is designed for the company to carry out its operations in a smooth and effective manner.

The web application checks entered data to avoid errors. It also provides error messages while entering invalid data. It is user-friendly and no formal knowledge is required to use the system. Every organization has different employee and payroll management needs.

Therefore the system is designed for the management to maintain each and every employee and payroll details according to company requirements.

Scope:

The project is deployable to the world wide web. It is cheap and can be modified according to the company requirements. The administration can access the system from their desktop only.

Requirements:


The System is divided into 2 modules which are as given as follows:

1. Employee Module: It will display the data of the employee stored in the system. That data involves employee details like name, date of birth, address, salary, attendance, latest transactions, etc.
2. Admin Module: It can be subdivided into 4 parts which are as follows:
 - Users Module: It adds new employees, updates current employees, and deletes employees.
 - Transaction: It allows us to view all transactions, view transactions based on employee ID, and add transactions.

- Leave: It automatically adds employee leave on the basis of regular attendance.

Data Definition and Dictionary:

User Database:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/> 1	u_id 	int(11)			No	None		AUTO_INCREMENT
<input type="checkbox"/> 2	name	varchar(225)	utf8mb4_general_ci		No	None		
<input type="checkbox"/> 3	contact	int(11)			No	None		
<input type="checkbox"/> 4	address	varchar(225)	utf8mb4_general_ci		No	None		
<input type="checkbox"/> 5	DOB	date			No	None		
<input type="checkbox"/> 6	DOJ	date			No	None		
<input type="checkbox"/> 7	DOL	date			Yes	NULL		
<input type="checkbox"/> 8	Designation	varchar(225)	utf8mb4_general_ci		No	None		
<input type="checkbox"/> 9	Salary	int(11)			No	None		
<input type="checkbox"/> 10	Password	varchar(225)	utf8mb4_general_ci		No	None		


u_id	Used to store employee ID
name	Used to store employee name
contact	Used to store employee contact no.
address	Used to store employee address
DOB	Used to store employee date of birth
DOJ	Used to store employee date of joining the company
DOL	Used to store employee date of leaving the company
Designation	Used to store employee designation
Salary	Used to store employee salary
Password	Used to store employee password

Transaction Database:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/> 1	transaction_id 	int(11)			No	None		AUTO_INCREMENT
<input type="checkbox"/> 2	transaction_date	date			No	current_timestamp()		
<input type="checkbox"/> 3	user_id	int(11)			No	None		
<input type="checkbox"/> 4	amount	int(11)			No	None		
<input type="checkbox"/> 5	type	varchar(225)	utf8mb4_general_ci		No	None		

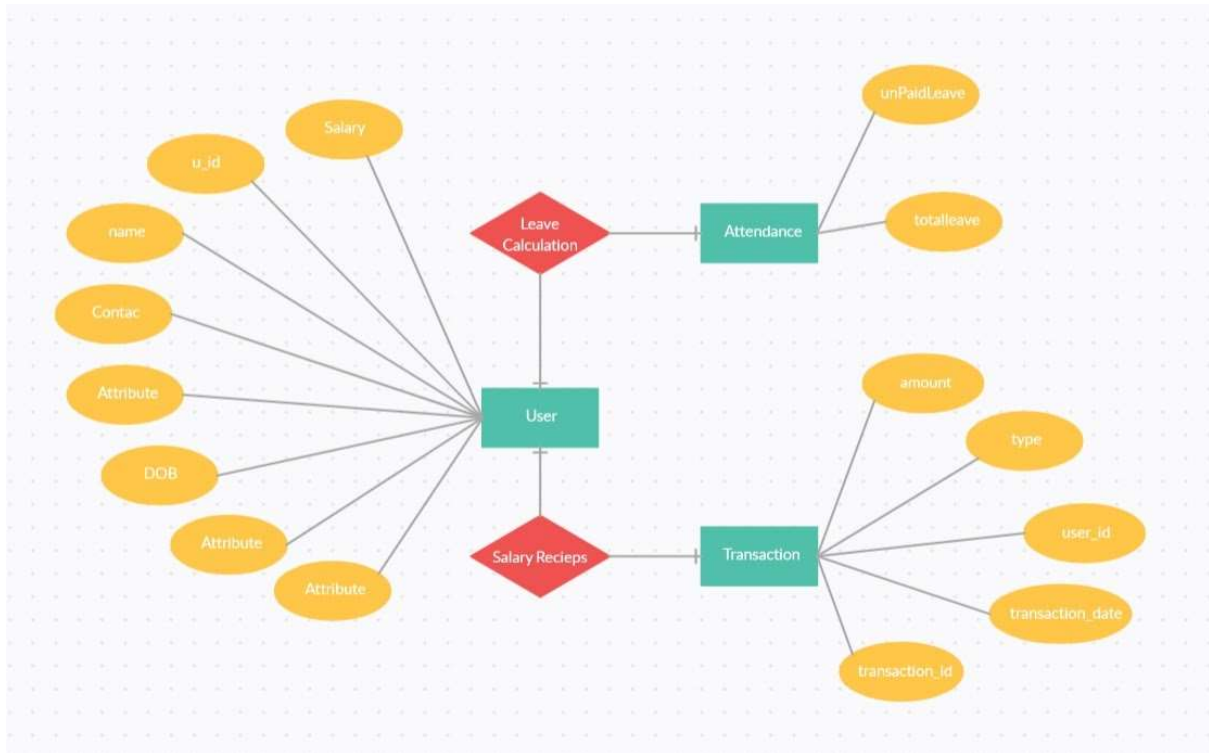
transaction_id	Used to store transaction ID
transaction_date	Used to store transaction date
user_id	Used to store transaction for which employee (Employee ID)
amount	Used to store transaction amount
type	Used to store transaction type

Attendance record Database:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/> 1	u_id 	int(11)			No	None		
<input type="checkbox"/> 2	totalLeave	int(11)			No	None		
<input type="checkbox"/> 3	unPaidLeave	int(11)			No	None		

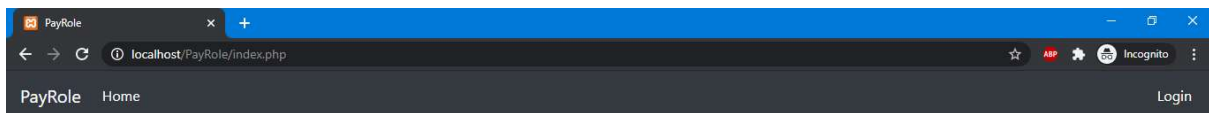
u_id	Used to store employee ID
totalLeave	Used to store total leave of employee
unPaidLeave	Used to store unpaid leave of employee yet to be processed

ER-Diagram



GUI


Main Page



PAYROLE MANAGEMENT



Login Page



User ID

1

Password

Login

Dashboard of Logged In User

Report

Users

Add User

Check User

Update User

Remove User

Transaction

Create Transaction

Check Transaction

Leave

User ID

1

Name

Archit Kane

DOB

2000-04-08

Contact

2147483647

Address

Mumbai

DOJ

2020-11-26

DOL

Salary

2157

Designation

Admin

Password

Archit

U_ID	Total Leave	Unpaid Leave
1	35	1

Transaction_ID	Date	User_ID	Amount	Type
53	2020-12-01	1	2157	Monthly
49	2020-11-27	1	2157	Monthly
45	2020-11-27	1	2157	Monthly
38	2020-11-26	1	2157	Monthly
1	2020-11-26	1	200	Bonus

Users Page

PayRole

localhost/PayRole/Users.php

Incognito

Logout

Report

Users

Add User

Check User

Update User

Remove User

Transaction

Create Transaction

Check Transaction

Leave

Designation

Current Employees only

Refresh

U_ID	Name	Contact	Address	DOB	DOJ	DOL	Designation	Salary
1	Archit Kane	2147483647	Mumbai	2000-04-08	2020-11-26		Admin	2157
2	Anuja Dhabole	1234567890	Pune	2020-01-01	2020-11-26		Developer	1100
3	Daksh Kanoria	2147483647	Mumbai	2003-06-05	2020-11-26		Driver	1966
4	Ashutosh Kore	2147483647	Delhi	2009-06-22	2020-11-26		Graphic Designer	2181
5	Aniket Rathod	2147483647	Thane	2012-08-19	2020-11-26	2020-11-26	Graphic Designer	8575
6	Naad	2147483647	Mumbai	2000-01-01	2020-11-27	2020-11-27	Graphic Designer	1200

PayRole

localhost/PayRole/Users.php

Incognito

Logout

Report

Users

Add User

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Designation

Graphic Designer

Current Employees only

Refresh

Check User Page

PayRole Logout

Report

Users

Add User

Check User

Update User

Remove User

Transaction

Create Transaction

Check Transaction

Leave

User ID: 1

Name: Archit Kane

DOB: 2000-04-08

Contact: 2147483647

Address: Mumbai

DOJ: 2020-11-26

DOL:

Salary: 2157

Designation: Admin

Password: Archit

Refresh

Update User Page

PayRole Logout

Report

Users

Add User

Check User

Update User

Remove User

Transaction

Create Transaction

Check Transaction

Leave

User ID: 1

Name: Archit Kane

DOB: 2000-04-08

Contact: 2147483647

Address: Mumbai

Salary: 2157

Designation: Admin

Password: Archit

Update

Delete User Page

PayRole Logout

Report

Users

Add User

Check User

Update User

Remove User

Transaction

Create Transaction

Check Transaction

Leave

User ID:

Name:

DOB:

Contact:

Contact:

Salary:

Designation:

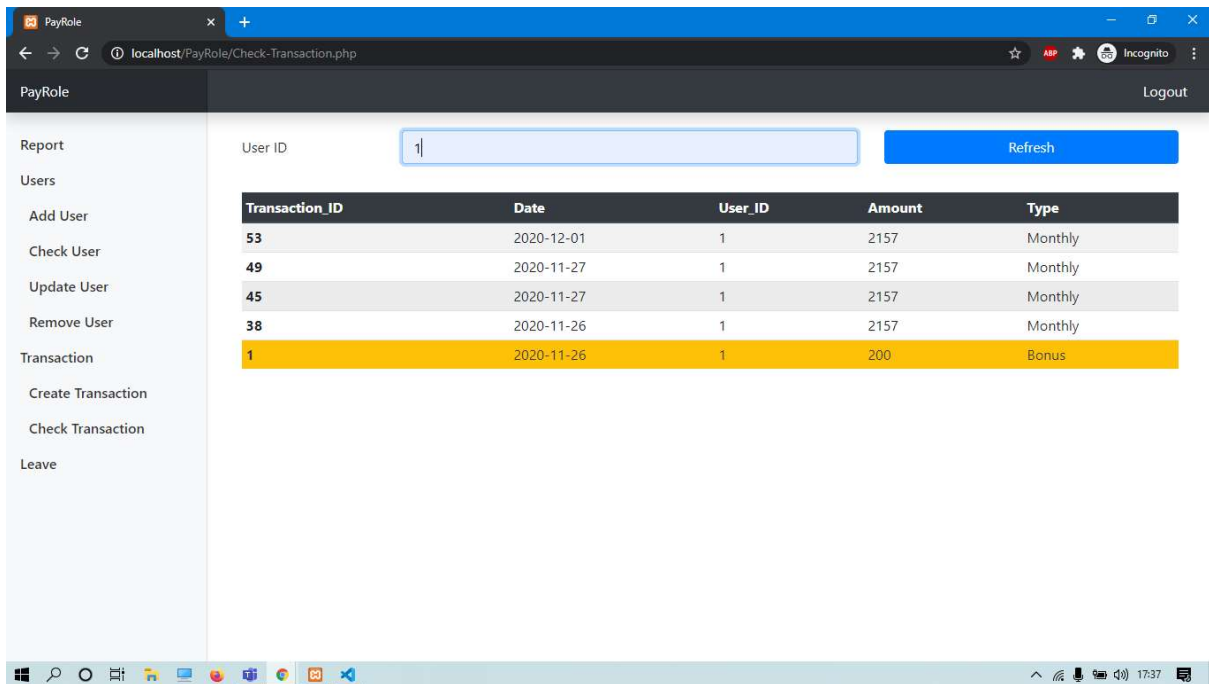
Password:

Transaction Page

PayRole Logout

Transaction_ID	Date	User_ID	Amount	Type
56	2020-12-01	4	2181	Monthly
55	2020-12-01	3	1966	Monthly
54	2020-12-01	2	1100	Monthly
53	2020-12-01	1	2157	Monthly
52	2020-11-27	4	2181	Monthly
51	2020-11-27	3	1966	Monthly
50	2020-11-27	2	1063	Monthly
49	2020-11-27	1	2157	Monthly
48	2020-11-27	4	2181	Monthly
47	2020-11-27	3	1966	Monthly
46	2020-11-27	2	1027	Monthly
45	2020-11-27	1	2157	Monthly
44	2020-11-27	2	500	Allowance
43	2020-11-26	4	300	Allowance
42	2020-11-26	5	8575	Monthly
41	2020-11-26	4	2181	Monthly
40	2020-11-26	3	1966	Monthly

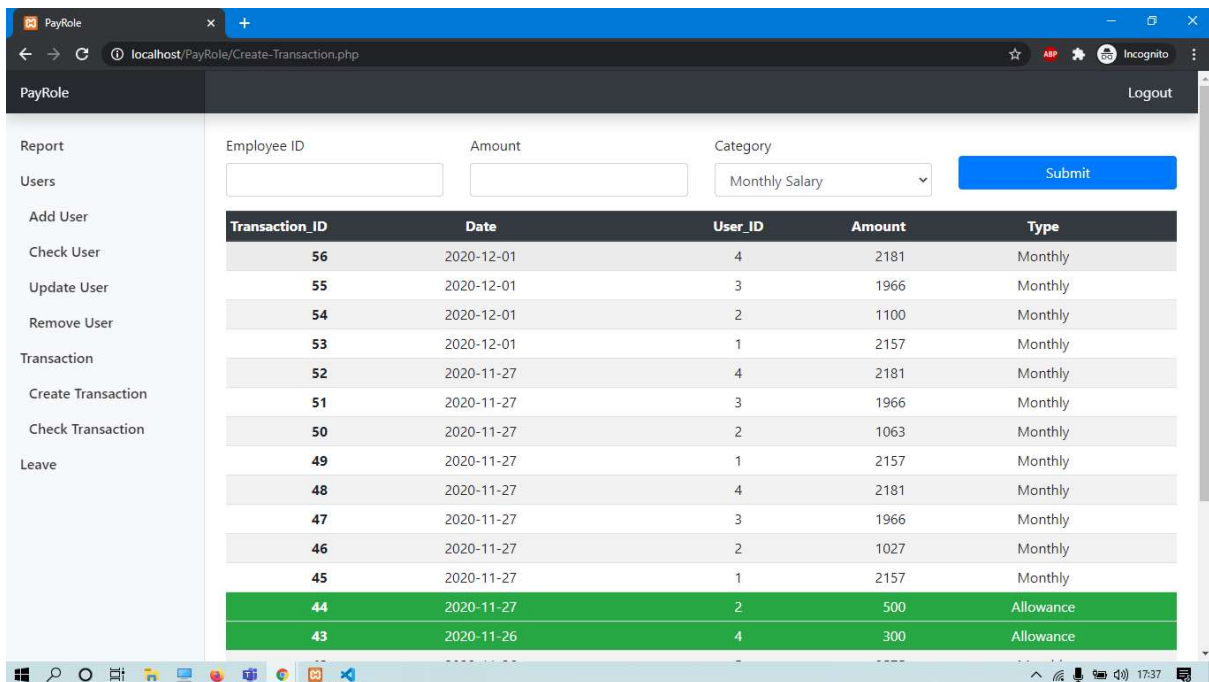
Check Transaction Page



The screenshot shows the 'Check Transaction' page of the PayRole application. The browser address bar indicates the URL is `localhost/PayRole/Check-Transaction.php`. The page features a sidebar with navigation options: Report, Users, Add User, Check User, Update User, Remove User, Transaction, Create Transaction, Check Transaction, and Leave. The main content area has a 'User ID' input field with the value '1' and a 'Refresh' button. Below this is a table displaying transaction records for User ID 1.

Transaction_ID	Date	User_ID	Amount	Type
53	2020-12-01	1	2157	Monthly
49	2020-11-27	1	2157	Monthly
45	2020-11-27	1	2157	Monthly
38	2020-11-26	1	2157	Monthly
1	2020-11-26	1	200	Bonus

Generate Transaction Page



The screenshot shows the 'Create Transaction' page of the PayRole application. The browser address bar indicates the URL is `localhost/PayRole/Create-Transaction.php`. The page features a sidebar with navigation options: Report, Users, Add User, Check User, Update User, Remove User, Transaction, Create Transaction, Check Transaction, and Leave. The main content area has input fields for 'Employee ID', 'Amount', and a 'Category' dropdown menu (set to 'Monthly Salary'), along with a 'Submit' button. Below these fields is a table displaying transaction records.

Transaction_ID	Date	User_ID	Amount	Type
56	2020-12-01	4	2181	Monthly
55	2020-12-01	3	1966	Monthly
54	2020-12-01	2	1100	Monthly
53	2020-12-01	1	2157	Monthly
52	2020-11-27	4	2181	Monthly
51	2020-11-27	3	1966	Monthly
50	2020-11-27	2	1063	Monthly
49	2020-11-27	1	2157	Monthly
48	2020-11-27	4	2181	Monthly
47	2020-11-27	3	1966	Monthly
46	2020-11-27	2	1027	Monthly
45	2020-11-27	1	2157	Monthly
44	2020-11-27	2	500	Allowance
43	2020-11-26	4	300	Allowance

Leave Page

PayRole

Report

Users

- Add User
- Check User
- Update User
- Remove User

Transaction

- Create Transaction
- Check Transaction

Leave

User ID: Refresh

U_ID	Total Leave	Unpaid Leave
1	35	1
2	44	0
3	3	0
4	2	0

Testing Document:

Test Case	Description	Expected Result	Actual Result	Status
Login Page	Enter Employee ID and password	Dashboard page appears	Dashboard page appears	Success
Add User Page	Enter User Details	User details should be visible in the User Page. User details is stored in user table	User details are visible in the User Page. User details is stored in user table	Success
Check User Page	Enter user ID	User details are visible	User details are visible	Success
Update User Page	Enter User ID. Modify the	User details updated.	User details updated.	Success
Delete User Page	Enter user ID. Confirm delete.	User DOL added.	User DOL added.	Success
Transaction Page	All recent transaction	All recent transaction	All recent transaction	Success

	visible	visible	visible	
Create Transaction Page	Enter user ID, type of transaction.	Transaction generated	Transaction generated	Success
Check Transaction Page	Enter user ID	Recent transactions for user displayed	Recent transactions for user displayed	Success
Leave Page	Enter user ID	Leave added to records	Leave added to records	Success

Conclusion

Successfully implemented PayRole management system using PHP and MySQL.