PROJECT REPORT

ON

EMPLOYEE MANAGEMENT SYSTEM

SUBMITTED TO

SRM UNIVERSITY, AMRAVATI

SUBMITTED BY:

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UNDER THE ASSISTANCE OF:

MR. SANJEEV KUMAR

UNDER THE GUIDANCE OF:

PROF. SWAMY

STUDENT DECLARATION/CERTIFICATE

I K.VIJAY RAMA KRISHNA REDDY, I BHAVANI PRASAD, I ARYAN REDDY students of Bachelor of Technology - Computer Science, SRM University Amravati, here by declare that the work presented in this project entitled "Employee Management System" is bonafide and correct to the best of our knowledge and this work has been carried out taking care of Engineering Ethics in the partial fulfillment of the requirements for the award of B.Tech. in Computer Science" degree in the session 2021, is an authentic record of our own work carried out under the supervision of Mr. Sajeev Kumar, Learnxt Portal. The work presented does not infringe any patented work and has not been submitted to any other university or anywhere else for the award of any degree or any professional diploma.

Dated_____ BHAVANI PRASAD

ARYAN REDDY

K.VIJAY RAMA KRISHNA REDDY

This is to certify that the above statements made by the candidates are correct to the best of my knowledge.

(Project Guide)

Sanjeev Kumar

Learnxt Portal,

SRM University, Amravati.

ACKNOWLEDGEMENT

This project is indeed one of the most important aspects for all those students pursuing B.Tech in all the way adding up to our practical knowledge and handling difficulties to make way out of it.

We take the opportunity to express our sincere gratitude and deep sense of indebtedness to our guide “Mr. Sanjeev Kumar” for the valuable guidance and inspiration throughout the project duration. We are grateful to him for his innovative ideas, which led to the successful completion of this project. We are very fortunate to work under such an outstanding mentor in the field of “Employee Management System”. He has always welcomed our problems and cleared our doubts. We will always be grateful to him for providing us the moral support and sufficient time.

We take immense pleasure in thanking Prof. , Head of Deptt. Computer Science for having permitted us to carry out this project work.

BHAVANI PRASAD
ARYAN REDDY
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4th Semester

Computer Science Dept.,

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EMPLOYEE MANAGEMENT SYSTEM

ABSTRACT:

In this world of growing technologies everything has been computerized. With large number of work opportunities the Human workforce has increased. Thus there is a need of a system which can handle the data of such a large number of Employees in an organization. This project simplifies the task of maintain records because of its user friendly nature.

The "EMPLOYEE MANAGEMENT SYSTEM" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some

cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly.

This project will allow admin to add new employees after proper authentication. Admin can also add new departments and posts. It can allocate employees to different departments at different posts. Database should store all personal details of employees such as date of birth full name etc. and his educational background, work experience, skill sets, current and past projects in different tables with proper relations.

This system enables employees to perform their own profile. It enables the automation of work flow notifications and leave request. Work flow notification from administrator are stored in the backend and notified to employee, once employee log in to the system. Leave request made by the employee is placed for administrator approval, the administrator module checks up with the leave availability and approves or rejects the request.

Introduction of the Project Employee Management System:

Every organization, whether big or small, has human resource challenges to overcome. every organization has different employee management needs, therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of human resources for your future goals. Also, for those busy executive who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources. One of the main features in employee management system is time tracking for employees. Effective time tracking mechanism saves both time and money for the organization.

SECURITY MEASURES:

Data Security System: The data security system will allow data to be securely transmitted between the various components of the e-commerce portal. This includes transmission of product, merchant and customer information from the content management system to the website, and also the transmission of data from the website to the content management system.

Folder Security using .htaccess: The .htaccess file in your site directory is a configuration file you can use to override the settings on your web server. With the right commands, you can enable/disable extra functionality and features to protect your site from spammers, hackers and other threats.

Restrict Access to Your Admin Area: A simple way to restrict access if

your internet has a fixed IP address and you always access your site form

the same location is by creating a new .htaccess file with the following

snippet:

order deny,allow

allow from only specified port number
deny from all.

System Design:

In this phase, a logical system is built which fulfils the given requirements. Design phase of software development deals with transforming the customer's requirements into a logically working system. Normally, design is performed in the following in the following two steps:

1) Primary Design Phase: In this phase, the system is designed at block level. The blocks are created on the basis of analysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimising the information flow between blocks. Thus, all activities which require more interaction are kept in one block.

2) Secondary Design Phase In the secondary phase the detailed design of every block is performed.

The general tasks involved in the design process are the following:

I. Design various blocks for overall system processes.

II. Design smaller, compact and workable modules in each block.

III. Design various database structures. IV. Specify details of programs to achieve desired functionality.

V. Design the form of inputs, and outputs of the system.
VI. Perform documentation of the design.

VII. System reviews.

User Interface Design:

User Interface Design is concerned with the dialogue between a user and the computer. It is concerned with everything from starting the system or logging into the system to the eventually

presentation of desired inputs and outputs. The overall flow of screens and messages is called a dialogue.

The following steps are various guidelines for User Interface Design:

1) The system user should always be aware of what to do next.

2) The screen should be formatted so that various types of information, instructions and messages always appear in the same general display

area.

3) Message, instructions or information should be displayed long enough

to allow the system user to read them.

4) Use display attributes sparingly.

5) Default values for fields and answers to be entered by the user should

be specified.

6) A user should not be allowed to proceed without correcting an error.

7) The system user should never get an operating system message or

fatal error.

ALGORITHM:
STEP1: To access our web app you have to type “localhost/erms/” and you can see three options displayed on the screen namely user signin,user signup and admin login.
STEP2: To register as an employee in the database you need to select user signin and enter the required details.
STEP3: After successful signing up you can enter your login details and sign in.
STEP4: you can see a dashboard with several options like my experience and my education ,employee can fill all his details and the information will be stored in our erms database.
STEP5: Admin has separate login details through which he can access and edit all information about employees.
STEP6: After logged in as an admin you will be able to see a dashboard with all employee information.

CODE:

```
SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
```

```
SET AUTOCOMMIT = 0;
START TRANSACTION;
SET time_zone = "+00:00";



--
-- Database: `ermsdb`
--

-- --------------------------------------------------------

--
-- Table structure for table `empeducation`
--

CREATE TABLE `empeducation` (
  `Id` int(11) NOT NULL,
  `EmpID` int(10) DEFAULT NULL,
  `CoursePG` varchar(45) DEFAULT NULL,
  `SchoolCollegePG` varchar(45) DEFAULT NULL,
  `YearPassingPG` varchar(45) DEFAULT NULL,
  `PercentagePG` varchar(4) DEFAULT NULL,
  `CourseGra` varchar(45) DEFAULT NULL,
  `SchoolCollegeGra` varchar(45) DEFAULT NULL,
  `YearPassingGra` varchar(45) DEFAULT NULL,
  `PercentageGra` varchar(4) DEFAULT NULL,
  `CourseSSC` varchar(45) DEFAULT NULL,
  `SchoolCollegeSSC` varchar(45) DEFAULT NULL,
  `YearPassingSSC` varchar(45) DEFAULT NULL,
  `PercentageSSC` varchar(4) DEFAULT NULL,
  `CourseHSC` varchar(45) DEFAULT NULL,
  `SchoolCollegeHSC` varchar(45) DEFAULT NULL,
  `YearPassingHSC` varchar(45) DEFAULT NULL,
  `PercentageHSC` varchar(4) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `empeducation`
--

INSERT INTO `empeducation` (`Id`, `EmpID`, `CoursePG`, `SchoolCollegePG`,
`YearPassingPG`, `PercentagePG`, `CourseGra`, `SchoolCollegeGra`,
`YearPassingGra`, `PercentageGra`, `CourseSSC`, `SchoolCollegeSSC`,
`YearPassingSSC`, `PercentageSSC`, `CourseHSC`, `SchoolCollegeHSC`,
`YearPassingHSC`, `PercentageHSC`) VALUES
```

```
(1, 4, 'NA', 'NA', 'NA', 'NA', 'B.Tech(IT)', 'LPU', '2014', '86%',
'Science', 'ABC Senoir secondary School', '2010', '64%', 'Science',
'abcd', '2008', '98%'),
(2, 2, 'abc', 'ghf', '2016', '89%', 'B.Tech(IT)', 'LPU', '2013', '86%',
'Science', 'DPS Senoir secondary School', '2009', '64%', 'Science', 'DPS
Senoir secondary School', '2008', '90%'),
(3, 3, 'Master in charted accountant', 'Bhavi CA college', '2004', '89%',
'Bachelor in charted accountant', 'Bhavi CA college', '1996', '95%',
'Science', 'graimia convent school', '1993', '75%', 'Science', 'graimia
convent school', '1991', '89%'),
(4, 7, 'MCA', 'KITE Ghaziabad', '1990', '64 %', 'BCA', 'TVN', '1997', '68
%', 'Science', 'TVN', '1992', '76 %', 'Science', 'TVN', '2010', '89 %'),
(5, 12, 'NA', 'NA', 'NA', 'NA', 'B.Tech', 'VIT', '1996', '75%', 'Science',
'GHI convent school', '1993', '66%', 'Science', 'GHI convent school',
'1990', '65%'),
(6, 13, 'MBA', 'SMU', '2018', '70', 'B.Tech', 'LPU', '2015', '80', 'PCM',
'Test', '2010', '74', 'PCM', 'ABC', '2008', '85'),
(7, 1, 'NA', 'NA', 'NA', 'NA', 'B.Tech', 'ABC', '2012', '75', 'PCM',
'XYZ', '2008', '67', '10th', 'HGHH', '2006', '89'),
(8, 14, 'M.Tech', 'ABC College', '2014', '65', 'B.Tech', 'XYZ', '2012',
'70', 'PCM', 'ABC', '2008', '56', 'High School', 'XYZ', '2006', '85');

-- --------------------------------------------------------

--
-- Table structure for table `empexpireince`
--

CREATE TABLE `empexpireince` (
  `ID` int(11) NOT NULL,
  `EmpID` varchar(5) DEFAULT NULL,
  `Employer1Name` varchar(75) DEFAULT NULL,
  `Employer1Designation` varchar(50) DEFAULT NULL,
  `Employer1CTC` varchar(50) DEFAULT NULL,
  `Employer1WorkDuration` varchar(11) DEFAULT NULL,
  `Employer2Name` varchar(75) DEFAULT NULL,
  `Employer2Designation` varchar(50) DEFAULT NULL,
  `Employer2CTC` varchar(50) DEFAULT NULL,
  `Employer2WorkDuration` varchar(11) DEFAULT NULL,
  `Employer3Name` varchar(75) DEFAULT NULL,
  `Employer3Designation` varchar(50) DEFAULT NULL,
  `Employer3CTC` varchar(50) DEFAULT NULL,
  `Employer3WorkDuration` varchar(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `empexpireince`
```

```
--

INSERT INTO `empexpireince` (`ID`, `EmpID`, `Employer1Name`,
`Employer1Designation`, `Employer1CTC`, `Employer1WorkDuration`,
`Employer2Name`, `Employer2Designation`, `Employer2CTC`,
`Employer2WorkDuration`, `Employer3Name`, `Employer3Designation`,
`Employer3CTC`, `Employer3WorkDuration`) VALUES
(2, '4', 'abc.pvt.td', 'software tester', '20,000 p/m', '4 yrs',
'tch.pvt.td', 'software tester', '32000 p/m', '4 yrs', 'dfg.pvt.td',
'SR.software tester', '45000 p/m', '7 yrs'),
(7, '2', 'SAR pvt.ltd', 'Software Developer', '25000 p/m', '3 yrs', 'abc
enterprise', 'software developer', '30000 p/m', '3 yrs', 'dgfhgfg.pt.ltd',
'software developer', '35000 p/m', '2 yrs till '),
(8, '3', 'GHA pvt.ltd', 'accountant', '25000', '5 yrs', 'HRCH pvt.ltd',
'accountant', '75000', '5 yrs', 'TCGHB pvt ltd', 'Sr.Accountant', '95000
', '8 yrs till'),
(9, '7', 'FAG pvt.ltd', 'HR Executive', '25000 p/m', '6 yrs', 'TYS', 'HR
Executive', '35000 p/m', '7 yrs', 'hirp pvt.ltd', 'HR Executive', '45000
p/m', '4 yrs till'),
(10, '12', 'dfg.pvt.ltd', 'accountant', '25000 p/m', '1 yrs',
'fghpvt.ltd', 'accountant', '30000 p/m', '3 yrs', 'fghpvt.ltd',
'accountant', '45000 p/m', '5 yrs till'),
(11, '13', 'ABC', 'Developer', '12000 ', '2 years', 'NA', 'NA', 'NA',
'NA', 'NA', 'NA', 'NA', 'NA'),
(12, '1', '', '', '', '', '', '', '', '', '', '', '', ''),
(13, '14', 'ABC Tech', 'Jr Devloper', '1258000', '6 Month', 'XYZ Tech',
'Devloper', '2589300', '6 Month', 'It Tech', 'Sr Devloper', '853214447',
'2 + Years');

-- --------------------------------------------------------

--
-- Table structure for table `employeedetail`
--

CREATE TABLE `employeedetail` (
  `ID` int(11) NOT NULL,
  `EmpFname` varchar(50) DEFAULT NULL,
  `EmpLName` varchar(50) NOT NULL,
  `EmpCode` varchar(50) DEFAULT NULL,
  `EmpDept` varchar(120) DEFAULT NULL,
  `EmpDesignation` varchar(120) DEFAULT NULL,
  `EmpContactNo` bigint(10) DEFAULT NULL,
  `EmpGender` enum('Male','Female') DEFAULT NULL,
  `EmpEmail` varchar(200) DEFAULT NULL,
  `EmpPassword` varchar(100) DEFAULT NULL,
  `EmpJoingdate` date DEFAULT NULL,
```

```
  `PostingDate` timestamp NOT NULL DEFAULT current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `employeedetail`
--

INSERT INTO `employeedetail` (`ID`, `EmpFname`, `EmpLName`, `EmpCode`,
`EmpDept`, `EmpDesignation`, `EmpContactNo`, `EmpGender`, `EmpEmail`,
`EmpPassword`, `EmpJoingdate`, `PostingDate`) VALUES
(1, 'Subhash', 'Pandey', '123465', 'IT', 'Software Developer', 1234567890,
'Male', 'abc@gmail.com', 'Test@12345', '2019-01-02', '2019-02-06
06:31:49'),
(2, 'Anuj', 'Kumar', '123465558', 'CS', 'Software Developer', 1234567890,
'Male', 'anuj@gmail.com', '123', '2017-03-23', '2019-02-06 06:41:42'),
(3, 'Ankush', 'Pandey', '123467', 'IT', 'Software Developer', 1234567890,
'Male', 'ankush@gmail.com', '89756', '2010-09-13', '2019-02-06 06:42:15'),
(4, 'Sarita', 'Pandey', '12346012', 'IT', 'Software Developer',
1234567890, '', 'abhi@gmail.com', '156975', NULL, '2019-02-06 06:42:47'),
(6, 'Manu', 'Ramesh', '369874', NULL, NULL, NULL, NULL, 'manu@gmail.com',
'987563', NULL, '2019-02-06 12:00:50'),
(7, 'Ragunath', 'Shahye', '63', NULL, NULL, NULL, NULL,
'shahye@gmail.com', '99999', NULL, '2019-02-08 07:22:40'),
(8, '1345556', '', '', NULL, NULL, NULL, NULL, '', '', NULL, '2019-02-11
05:08:40'),
(9, 'Garuv', 'Bhatia', '89745', NULL, NULL, NULL, NULL, 'jk@gmail.com',
'12', NULL, '2019-02-11 05:12:28'),
(10, 'Khusi', 'Dev', '1234', NULL, NULL, NULL, NULL, 'hjk@gmail.com',
'1990', NULL, '2019-02-11 05:18:08'),
(11, 'SARITA', 'pANDEY', '789', NULL, NULL, NULL, NULL,
'PANDEY@GMAIL.COM', '1111', NULL, '2019-02-11 08:50:55'),
(12, 'Dinesh', 'Karthik', '56989', NULL, NULL, NULL, NULL,
'dinesh@gmail.com', '8989', NULL, '2019-02-11 12:30:50'),
(13, 'Test', 'User', '2131231', 'IT', 'Software Developer', 1234567890,
'Male', 'testuser@gmail.com', 'Test@123', '2018-10-09', '2019-02-11
16:21:58'),
(14, 'Anuj', 'Kumar', '1023647885', 'IT', 'Software Developer',
1234567890, 'Male', 'aktest@gmail.com', 'Test@123', '2019-01-01', '2020-
02-19 16:58:51');

-- --------------------------------------------------------

--
-- Table structure for table `tbladmin`
--

CREATE TABLE `tbladmin` (
```

```
  `ID` int(11) NOT NULL,
  `AdminName` varchar(50) DEFAULT NULL,
  `AdminuserName` varchar(50) DEFAULT NULL,
  `Password` varchar(45) DEFAULT NULL,
  `AdminRegdate` timestamp NULL DEFAULT current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `tbladmin`
--

INSERT INTO `tbladmin` (`ID`, `AdminName`, `AdminuserName`, `Password`,
`AdminRegdate`) VALUES
(1, 'Admin', 'Admin', 'Test@123', '2019-02-07 16:52:45');

--
-- Indexes for dumped tables
--

--
-- Indexes for table `empeducation`
--
ALTER TABLE `empeducation`
  ADD PRIMARY KEY (`Id`);

--
-- Indexes for table `empexpireince`
--
ALTER TABLE `empexpireince`
  ADD PRIMARY KEY (`ID`);

--
-- Indexes for table `employeedetail`
--
ALTER TABLE `employeedetail`
  ADD PRIMARY KEY (`ID`),
  ADD UNIQUE KEY `EmpCode` (`EmpCode`);

--
-- Indexes for table `tbladmin`
--
ALTER TABLE `tbladmin`
  ADD PRIMARY KEY (`ID`);

--
-- AUTO_INCREMENT for dumped tables
--
```

```
--
-- AUTO_INCREMENT for table `empeducation`
--
ALTER TABLE `empeducation`
  MODIFY `Id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=9;

--
-- AUTO_INCREMENT for table `empexpireince`
--
ALTER TABLE `empexpireince`
  MODIFY `ID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=14;

--
-- AUTO_INCREMENT for table `employeedetail`
--
ALTER TABLE `employeedetail`
  MODIFY `ID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=15;

--
-- AUTO_INCREMENT for table `tbladmin`
--
ALTER TABLE `tbladmin`
  MODIFY `ID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
COMMIT;
```

CONCLUSION AND FUTURE ENHANCEMENT:

CONCLUSION:

In this report, an information system's development has been presented. It was emphasized on the basic steps, consequently taken during the project's development course as a particular attention was turned to the basic operative functions performed upon the data into the database.

FUTURE ENHANCEMENT:

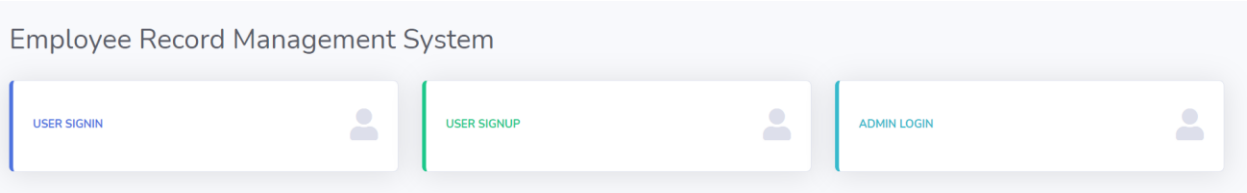
As a future work, some additional stuff could be implemented and integrated into

theapplication code making it much more reliable and flexible; especially what concerns apay-roll module, for instance.

Apparently, the role of such systems is basic and essential within each company that wants to keep a really good control and record concerning its personnel data,functionality and performance on all levels in its structure. Every organization, in nowadays, has the necessity of managing its staff on a really good level as the staff has definitely the greatest merit of building up a company as such as it is.

The well managed employee means giving the appropriate financial award-ness and all kind of benefits as such as they have been deserved. That's why the development of such systems is not just a programming business a lot of people are ordinarily involved in such projects and one of the basic requirements is the reliability of the system.especially what concerns the storage of data and all of the operations that will be performed upon it.

SAMPLE INPUT AND OUTPUT:



Employee Record Managment System

Create an Account!

First Name

Last Name

Enter your Employee Code

Email Address

Password

Repeat Password

Register Account

Already have an account? Login!

Employee Record Managment System

Welcome Back!

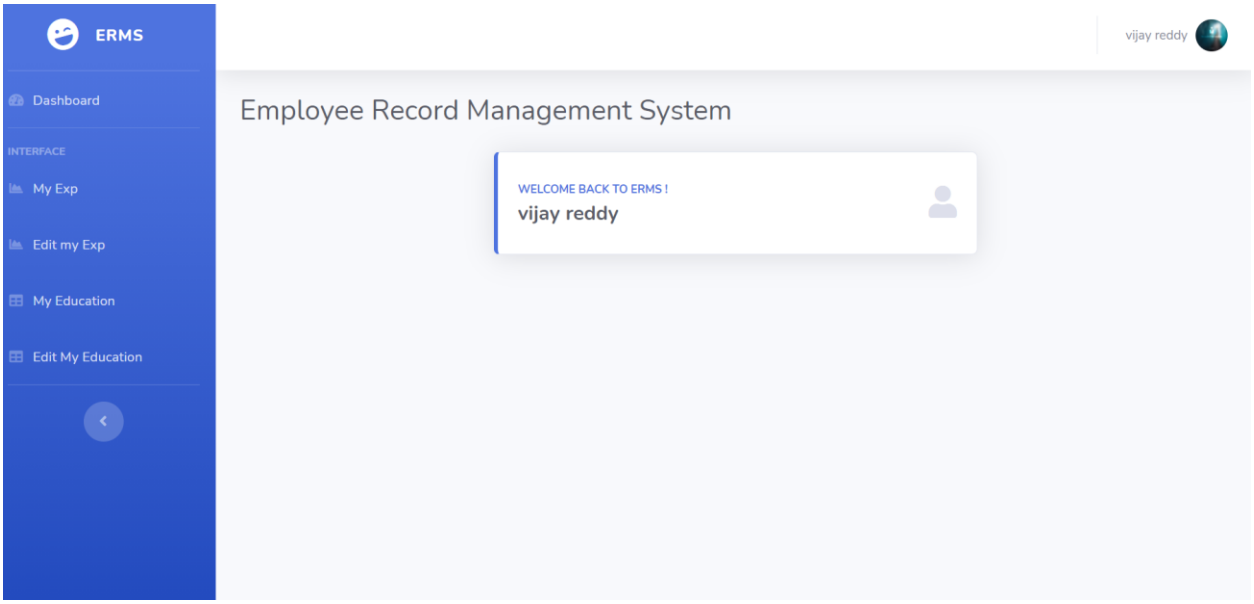
vijaykvr024@gmail.com

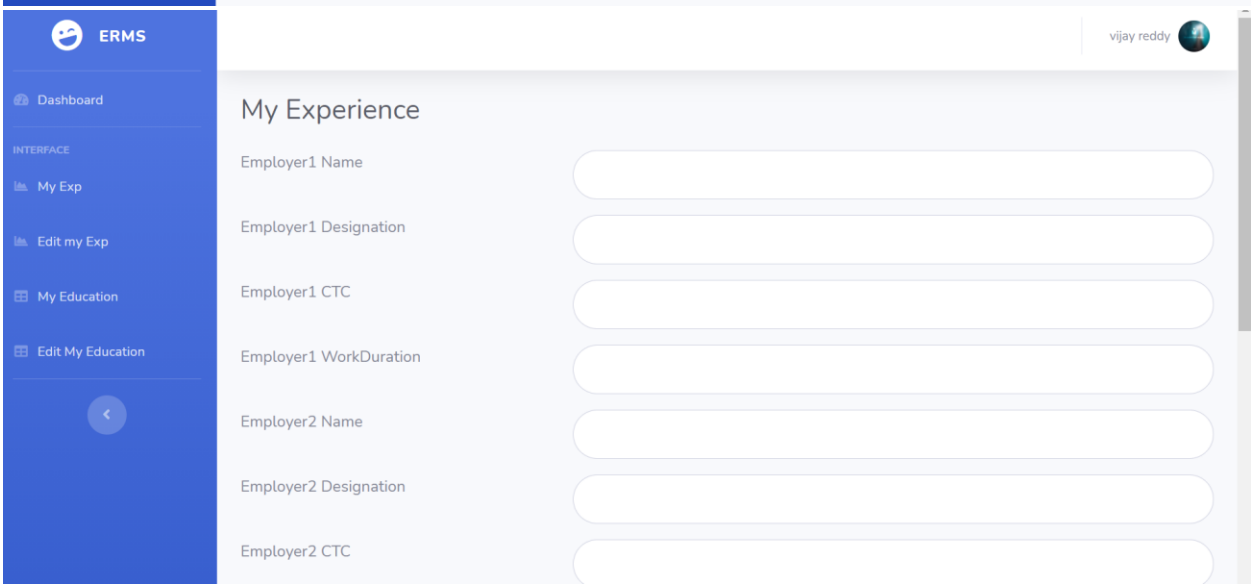
•••••

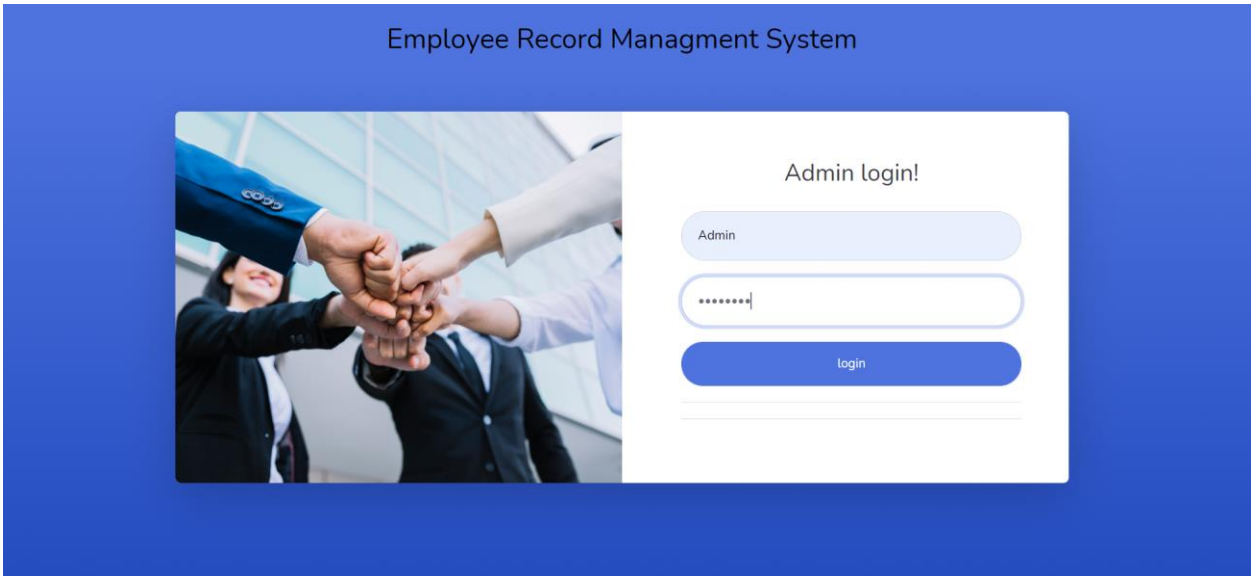
login

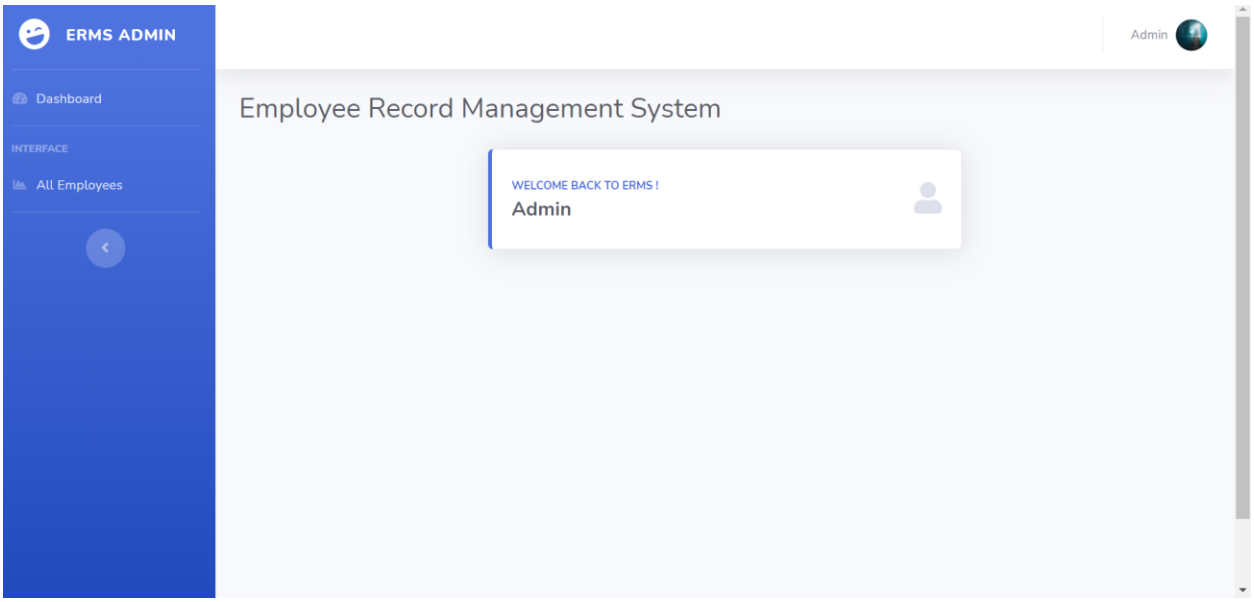
Forgot Password?

Create an Account!

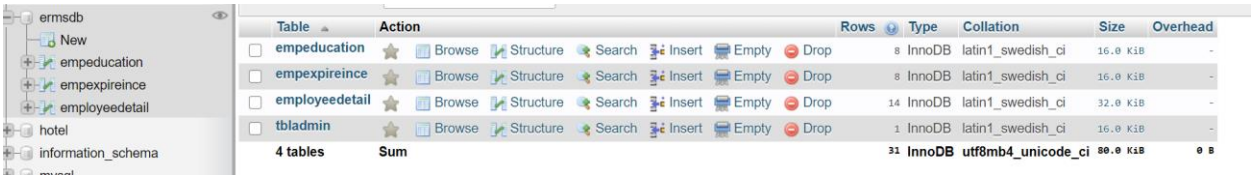

ERMS
vijay reddy
Dashboard
INTERFACE
My Exp
Edit my Exp
My Education
Edit My Education
Employee Record Management System
WELCOME BACK TO ERMS !
vijay reddy


ERMS
vijay reddy
Dashboard
INTERFACE
My Exp
Edit my Exp
My Education
Edit My Education
My Experience
Employer1 Name
Employer1 Designation
Employer1 CTC
Employer1 WorkDuration
Employer2 Name
Employer2 Designation
Employer2 CTC


Employee Record Managment System
Admin login!
Admin
login


ERMS ADMIN
Dashboard
INTERFACE
All Employees
Admin
Employee Record Management System
WELCOME BACK TO ERMS !
Admin


ERMS ADMIN
Admin
Dashboard
INTERFACE
All Employees
Employees Details
S no.
Emp Code
Emp First Name
Emp Last Name
Emp Email
Emp Contact no
Emp Joining Date
Action
1
123465
Subhash
Pandey
abc@gmail.com
1234567890
2019-01-02
Edit Profile Details | Edit Education Details | Edit Experience Details
2
123465558
Anuj
Kumar
anuj@gmail.com
1234567890
2017-03-23
Edit Profile Details | Edit Education Details | Edit Experience Details
3
123467
Ankush
Pandey
ankush@gmail.com
1234567890
2010-09-13
Edit Profile Details | Edit Education Details | Edit Experience Details
4
12346012
Sarita
Pandey
abhi@gmail.com
1234567890
Edit Profile Details | Edit Education Details | Edit
ocalhost/erms/admin/welcome.php
23:09


ermsdb
New
empeducation
empexpireince
employeedetail
hotel
information_schema
Table
Action
Rows
Type
Collation
Size
Overhead
empeducation Browse Structure Search Insert Empty Drop 8 InnoDB latin1_swedish_ci 16.0 KiB -
empexpireince Browse Structure Search Insert Empty Drop 8 InnoDB latin1_swedish_ci 16.0 KiB -
employeedetail Browse Structure Search Insert Empty Drop 14 InnoDB latin1_swedish_ci 32.0 KiB -
tbladmin Browse Structure Search Insert Empty Drop 1 InnoDB latin1_swedish_ci 16.0 KiB -
4 tables Sum 31 InnoDB utf8mb4_unicode_ci 80.0 KiB 0 B