A

PROJECT SYNOPSIS

ON

" EMPLOYEE TRACKING SYSTEM "

SUBMITTED TO

SHIVAJI UNIVERSITY, KOLHAPUR

For partial fulfillment of

"Bachelor of Computer Application"

SUBMITTED BY

MR. SHUBHAM SHIVAJI MENGANE.(B.C.A –III)

MR. OMKAR SURESH GAVALI.(B.C.A –III)

UNDER THE GUIDANCE OF

Asst. Prof. Miss D. S. Mahajan(Msc.cs)

THROUGH

The Principal

SHIVRAJ COLLEGE OF ARTS , COMMERCE & D.S.KADAM

SCIENCE COLLEGE, GADHINGLAJ DIST.KOLHAPUR

2022 – 2023

K.V.R.S.S.S's

SHIVRAJ COLLEGE OF ARTS, COMMERCE & D.S.KADAM SCIENCE COLLEGE, GADHINGLAJ DIST. KOLHAPUR

CERTIFICAT

This is to certify that ,

1.Mist. Shubham Shivaji Mengane.

2.Mist. Omkar Suresh Gavli.

Have successfully completed the project on the topic " **EMPLOYEE TRACKING SYSTEM**" in satisfactory manner for partial fulfillment of Bachelor Of Computer Application (BCA) degree for the academic year 2021-23.

To the best of our knowledge and belief, the matter presented here is original and has not been submitted elsewhere for the award of any degree.

Date: / /2022

Place: Gadhinglaj

Project Guide

Asst. Prof. Miss D. S. Mahajan(Msc.cs)

EXAMINER

H.O.D

Asst. Prof. K.S.Desai

2

K.V.R.S.S.S's

SHIVRAJ COLLEGE OF ARTS, COMMERCE & D.S.KADAM SCIENCE COLLEGE, GADHINGLAJ DIST. KOLHAPUR

GUIDANCE

This is to certify that the project entitled " **EMPLOYEE TRACKING SYSTEM**" conducted at Shivraj College Gadhinglaj by

Mist. Shubham Shivaji Mengane. and Mist. Omkar Suresh Gavli.

In partial fulfillment of this work for award of Bachelorof Computer Application submitted to Shivaji University , Kolhapur has been completed under my supervision and guidance.

To the best of my knowledge and belief, the presented by them is original in nature and has not been from any source. In addition, this report has not been submitted earlier for ant degree or diploma of Shivaji University or any other university.

Place : Gadhinglaj.

Date :

(Project Guide)

Asst. Prof. Miss
D. S. Mahajan

CERTIFICATE

" EMPLOYEE TRACKING SYSTEM"

This is to certify that Mist. Shubham Shivaji Mengane. and Mist. Omkar Suresh Gavli. The students of Shivraj College ,Gadhinglaj have developed this project report entitled " EMPLOYEE TRACKING SYSTEM" for our institute.

The data collected and processed is according to our requirement of system .Their work is upto the mark of satisfaction and that was good.As per my knowledge it is their original work and it is carried out very much sincerely.

I wish that all success in their future

Place: Gadhinglaj

Date:

DECLARATION

We undersigned hereby declare that this report entitled " **EMPLOYEE TRACKING SYSTEM**" for Shivraj College of Arts, Commerce and D.S. Kadam Science college , Gadhinglaj, is our original work prepared under guidance of Asst. Prof. Miss D. S. Mahajan. The Empirical finding in this report are based on data collected by us. The matter presented is this report is not copied from any source.

We understand that such copy is liable for punishment in any way the university Authorities deem to fit. This work has not been submitted to either Shivaji University or any other University.

This work is humbly submitted to Shivaji University ,Kolhapur for the award of the degree of Bachelor of Computer Application

Place : Gadhinglaj   Mist. Shubham Shivaji Mengane.

Date: Mist. Omkar Suresh Gavli.

ACKNOWLEDGEMENT

It gives great pleasure to remain deeply indebted to our guide Asst. Prof. Miss D. S. Mahajan for providing us with the required facilities for the academic achievement under whom we had the privilege to work. The faith and Confidence shown by him in us boosted our moral and motivated us to perform better in preferring this project.

We are thankful to those who have contributed either directly or indirectly to this project.

Thanking You.

Mist. Shubham Shivaji Mengane.

Mist. Omkar Suresh Gavli.

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INTRODUCTION

Introduction

This Project is mainly developed by using "NETBEANS IDE, SQL Server".

Employee Tracking System is a program to automate or computerize all employee Tracking operations.

Employee Tracking System is open to admins, Managers, and regular employees. Among all users, only the admins have all privileges to access all the information of Employee Tracking System. So the admins will insert, update, remove the employees, departments, generate reports and whereas other users will have limited roles. Once the user's login they can perform few tasks specific to their role.

Such as Managers can update a project report and give rating to employee working on that project.

Employee can also update there work done on the project and they can also apply for leave.

ORGANIZATION PROFILE

Organization Name: Developers End

Venue: Gadhinglaj

Contact No.:   **02312468383**

Area of work: Gadhinglaj

Owner: **Mr. Omkar Gavli**

EXISTING SYSTEM

- In existing system for maintaining attendance there are registers but they are not properly managed there are many chances of mistakes or miss-attendance.

- The existing employee management system in the organization still uses the ordinary classical methods which are merely based on pen-paper to record the data of their employees.

- Large quantities of registers are to be maintained for this purpose which results in downright waste of time in generating reports or searching for employee's records and loss of data if any file is lost.

- It is also an arduous task for organizations as it is an expensive process.

Objectives

- The main objective of the application is to maintain the details of employees.
- The employee tracking system project is to create a user-friendly software application that efficiently manage employee-related data such as attendance, leave performance evaluation etc.
- The system allowing admin and manager to monitor their work progress and performance.
- The system should also generate the reports which helps the manager to know about their employee work and project progress.
- Ultimately, the main goal of this project is to improve organization efficiency and good and transparent data management.

Proposed System

- It allows managers to monitor the progress of work.

- It allows manager to evaluate employee performance and give rating to them.

- It allows the employee to apply for leave.

- It allows update the work done of project and generate report.

- It allows central database that contains information about each employee, including their name, contact information, job title, department, and other relevant data.

- The system Gives the strong security features to protect employee data and prevent unauthorized access.

- It allows to track employee performance metrics such as productivity, quality of work, and attendance.

Methodology

For designing a computerized system we have been followed the software engineer approach for developing the software .We have choosed the classic life cycle approach for developing the software development which is SDLC .This includes system design ,system analysis and testing which is followed by again first phase i.e.repeating the cycle.

System desing means understand the old system completely and planning the old system completely and planning the new system or to replace existing system .

Then we tell them that we are making project on online " EMPLOYEE TRACKING SYSTEM". So they give us information like Employee Attendance, Employee Registration and required report and over all process. They told us how the existing system is working.

After getting all needed information we make design of the " employee tracking system" as per we planned.

We get help for staff of computer application at coding time of the project . They support us very well . for giving the demo we use some customers for the betterment of our software.

ADVANTAGES OF PROPOSED SYSTEM

- Allows managers to monitor the progress of work.

- Allows manager to evaluate employee performance and give rating to them.

- Allows the employee to apply for leave.

- Allows update the work done of project and generate report.

- Allows to track employee performance metrics such as productivity, quality of work, and attendance.
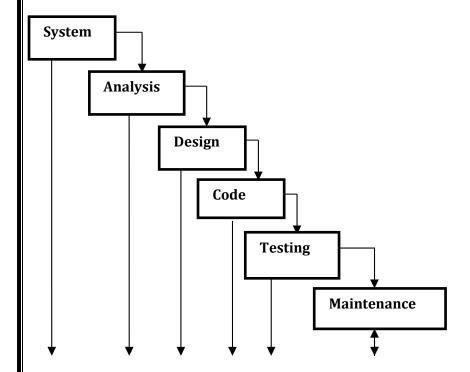
System Analysis & Life Cycle

- <u>THE PROCESS MODEL USED FOR THE SYSTEM:</u>
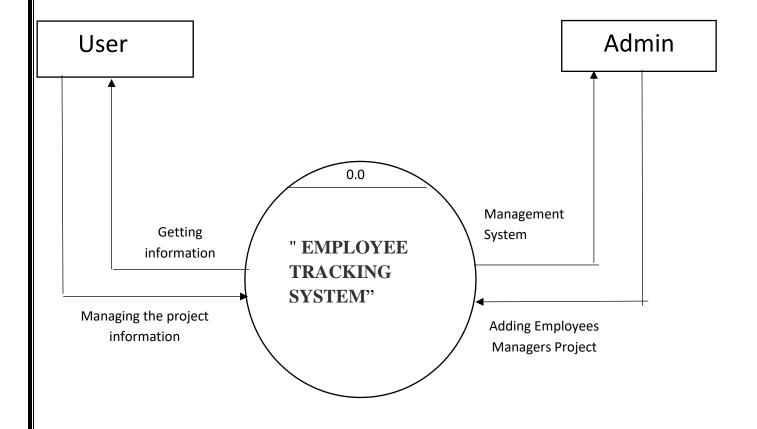
The process model used for this system "Classic Life Cycle"as this is simple and is best for small scale project.
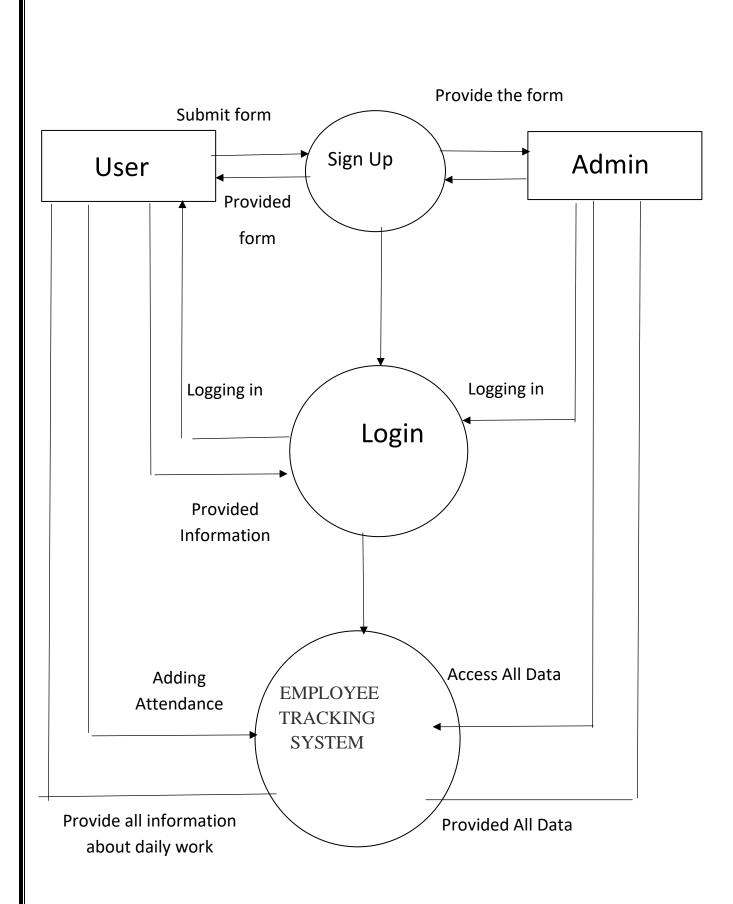
The "Classic Life Cycle" is also called System Development Life Cycle (SDLC). It is defined "The growth of an information system is through various identifiable stages. These stages are grouped together and referred as SDLC." The structure of its stages which we used inour project is as follows:

Waterfall model

```
┌──────────┐
│ System   │
└──────────┘
     ┌──────────┐
     │ Analysis │
     └──────────┘
          ┌──────────┐
          │ Design   │
          └──────────┘
              ┌──────────┐
              │ Code     │
              └──────────┘
                  ┌──────────┐
                  │ Testing  │
                  └──────────┘
                      ┌──────────────┐
                      │ Maintenance  │
                      └──────────────┘
```

DATA FLOW DIAGRAM (DFD)

CONTEXT LEVEL DIAGRAM

```
┌──────────────┐                              ┌──────────────┐
│     User     │                              │    Admin     │
└──────────────┘                              └──────────────┘
```

0.0

" EMPLOYEE
TRACKING
SYSTEM"

Getting
information

Management
System

Managing the project
information

Adding Employees
Managers Project

Provide the form

Submit form

User

Sign Up

Admin

Provided

form

Logging in

Logging in

Login

Provided
Information

Adding
Attendance

Access All Data

EMPLOYEE
TRACKING
SYSTEM

Provide all information
about daily work

Provided All Data

ENTITY RELATIONSHIP DIAGRAM (ERD)

```
                    ┌──────────────┐
                    │   Manager    │
                    └──────────────┘
                      /          \
                 ( Email )    ( password )
                        │
                    ◇ Manage ◇
          ┌──────────┬──────────┬──────────────┐
   ┌───────────┐ ┌───────────────┐ ┌───────────┐ ┌─────────────────┐
   │View project│ │View project report│ │give rating│ │View Leave report│
   └───────────┘ └───────────────┘ └───────────┘ └─────────────────┘
                              /        \
                     ( Employee Name )  ( Give Rating )


                    ┌──────────────┐
                    │   Employee   │
                    └──────────────┘
                      /          \
                 ( Email )    ( password )
                        │
                    ◇ Manage ◇
          ┌──────────────┬──────────────┐
   ┌───────────────────┐ ┌───────────┐ ┌───────────┐
   │upload project report│ │apply leave│ │view rating│
   └───────────────────┘ └───────────┘ └───────────┘
                   / │   │  \
        ( employee name ) │ │ ( reason )
              ( from date ) ( to date )
```

SYSTEM

REQUIREMENT

➢ :**Software Requirement:**

- JDK (Net beans IDE 7.2)

- MY-SQL workbench

- Glassfish server 3.1

- Jasper Report 5.1

- Operating System:-Windows-7 64 bit.

▪ **Hardware Requirement:**

➢ Intel Dual Core or Higher Processor.

➢ GB of RAM or Above.

➢ Minimum 20 GB Hard-Disk

➢ 1 Keyboard and Mouse

" EMPLOYEE TRACKING SYSTEM"

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ABOUT JAVA

About Java

Java is an object-oriented programming language developed by James Gosling and Colleagues at Sun Microsystem in early 1990s. Unlike conventional languages which are generally designed either to be compiled to native code, or to be interrupted from source code at runtime, Java is intended to be compiled to a byte code, which is then run (generally using JIT compilation) by a Java Virtual Machine.

Java was started as a project called "oak" by James Gosling in June 1991. Gosling goals were to implemented a virtual machine and a language that had a familiar C-like notation but with greater uniformly and simplicity then C and C++. The first public implementation was Java

1.0 in 1995. It made the promise of "Write Once, Run Anywhere", with free runtimes on popular platforms. It was fairly secure and its security was configurable, allowing for network and accessto be limited. The major web browsers soon incorporated it into their standard configuration in secure "Applet" configuration popular quickly. New versions for large and small platforms (J2EE and J2ME) soon were designed with the advent of "Java 2". Sun has not announced any plans for a "Java 3".

About Java NetBeans(IDE)

The Net Beans Platform is a framework for simplifying the development of Java Swing desktop applications. The Net Beans IDE bundle for Java SE contains what is needed to start developing Net Beans plugins and Net Beans Platform based applications no additional JDK is required.

Applications can install modules dynamically. Any application can include the Update Centre module to allow users of the application to download digitally signed upgrades and new features directly into the running application. Reinstalling an upgrade or a new release does not force users to download the entire application again.

The platform offers reusable services common to desktop applications, allowing developers to focus on the logic specific to their application. Among the features of the platformare:

Net Beans IDE is an open-source integrated development environment. Net Beans IDE supports development of all Java application types (Java SE (including Java FX), Java ME, web,EJB and mobile applications) out of the box. Among other features are an Ant-based project system, Maven support, refactoring, version control (supporting CVS, Subversion, Mercurial andClear case).

Modularity: All the functions of the IDE are provided by modules. Each module provides a well-defined function, such as support for the Java language, editing, or support for the CVS versioning system, and SVN. Net Beans contains

all the modules needed for Java development in a single download, allowing the user to start working immediately. Modules also allow Net Beans to be extended. New features, such as support for other programming languages, can be added by installing additional modules. Forinstance, Sun Studio, Sun Java Studio Enterprise, and Sun Java Studio Creator from Sun Microsystems are all based on the Net Beans IDE.

" EMPLOYEE TRACKING SYSTEM"

License : From July 2006 through 2007, Net Beans IDE was licensed under Sun's Common Development and Distribution License (CDDL), a license based on the Mozilla Public License (MPL). In October 2007, Sun announced that Net Beans would henceforth be offered under a dual license of the CDDL and the GPL version 2 licenses, with the GPL linking exception for GNU Class path

- User Interface Management (e.g. Menus and Toolbars)
- User Settings Management
- Storage Management (Saving and Loading any Kind of Data)
- Window Management
- Wizard Framework (Supports Step-by-Step Dialogs)
- Net Beans Visual Library
- Integrated Development Tools

ABOUT SQL DATABASE

What is Database?

A database is a separate application that stores a collection of data. Each database has one or more distinct Application for creating, accessing managing, searching and replicating the data it holds.

Other kinds of data stores can be used such as files on the file system or large hash tables in memory but data fetching and writing would not be fast and easy with those types of systems.

So now a day we use relational database management systems (RDBMS) TO store and manage huge volume of data. This is called relational database because all the data is stored into different bales and relations are established using primary keys or other keys known as foreign keys.

Relational Database Management System

(RDMS)

- Enables you to implement a database with tables, columns and indexes.

- Guarantees the Referential Integrity between rows of various tables.

- Updates the indexes automatically.

- Interprets a SQL query and combines information from various tables.

MySQL Database

MySQL

- MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. SQL was initially developed at IBM by DONALD Chamberlin and Raymond Boyce after learning about the relation model from Ted Cod in the early 1970 s.:
- MySQL is released under an open-source license. So you have nothing to pay to use it.
- MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages.
- MySQL uses a standard form of the well-known SQL data language.
- MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.
- MySQL works very quickly and works well even with large data sets.
- MySQL is very friendly to all language, the most appreciated language for web development.
- MySQL supports large databases, up to 50 million rows or more in a table. The default file size limit for a table is 4GB, but you can increase this (if your operating system can handle it) to a theoretical limit of 8 million terabytes (TB).

" EMPLOYEE TRACKING SYSTEM"

DATABASE
DESIGN

" EMPLOYEE TRACKING SYSTEM"

Employee Registration :

Column Name	Data Type	Description
Name	Varchar(50)	To Store Name
Phone	Bgint(10)	To Store Mobile Number
Email	Varchar(50)	To Store Email Address
Address	Varchar(50)	To Store Address
Dob	Varchar(50)	To Store Date Of Birth
Password	Varchar(50)	To Store Password
Gender	Varchar(50)	To Store Gender
Design	Varchar(50)	To Store Designation
Img	Blob(500)	To Store Photo

Manager Registration :

Column Name	Data Type	Description
Name	Varchar(50)	To Store Name
Phone	Bgint(10)	To Store Mobile Number
Email	Varchar(50)	To Store Email Address
Address	Varchar(50)	To Store Address
Dob	Varchar(50)	To Store Date Of Birth
Password	Varchar(50)	To Store Password
Gender	Varchar(50)	To Store Gender
Img	Blob(500)	To Store Photo

" EMPLOYEE TRACKING SYSTEM"

Register New Project :

Column Name	Data Type	Description
Name	Varchar(50)	To Store Project Name
Employee Name	Varchar(50)	To Store Employee Name Working On Project
Client Name	Varchar(50)	To Store Client Name
Devplat	Varchar(50)	To Store Development Platform
Protype	Varchar(50)	To Store Project Type
Prodbtech	Varchar(50)	To Store Project Database Technology
Proman	Varchar(50)	To Store Project Manger Name
Prodescrib	Varchar(50)	To Store Project Description

Project report :

Column Name	Data Type	Description
Project Name	Varchar(50)	To Store Project Name
Prorep	Varchar(50)	To Store Project Report

" EMPLOYEE TRACKING SYSTEM"

Leave :

Column Name	Data Type	Description
Emp Name	Varchar(50)	To Store Employee Name
Edag	Varchar(50)	To Store Employee Designation
Fdate	DATE	To Store Form Date
Tdate	DATE	To Store To Date
Reason	Varchar(50)	To Store Reason

Attendance :

Column Name	Data Type	Description
Emp Name	Varchar(50)	To Store Employee Name
Eatdeg	Varchar(50)	To Store Emp Designation
Date	DATE	To Store Date
Attend	Varchar(50)	To Store Attendance

Rating :

Column Name	Data Type	Description
Emp Name	Varchar(50)	To Store Employee Name
Eatdeg	Varchar(50)	To Store Emp Designation
Rate	Int	To Store Rating

" EMPLOYEE TRACKING SYSTEM"

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SOURCE CODE

" EMPLOYEE TRACKING SYSTEM"

```html
<html>
  <head>
    <title>Home Page</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="css/bootstrap.css">
    <style>
      #navbar {
        height: 60px;
        width: 100%;
        background:green;
        position: absolute;
        top: 15px;
      }

      #navbar ul {
        list-style: none;
        display: flex;
        flex-direction: row;
      }

      #navbar ul li {
        height: 60px;
        width: auto;
        font-size: 15px;
        margin: 0px 60px;
        display: flex;
        align-items: center;
      }
```

```css
#navbar ul li:first-child {

   margin-left: 120px;

}


#navbar ul li a {

   text-decoration: none;

   color: white;

   font-size: 15px;

}


#navbar ul li a:hover {

   color: black;

   padding: 10px 0;

   border-bottom: 2px solid #ff7720;

}


#navbar ul .active a {

   color: #ff7720;

   padding: 10px 0;

   border-bottom: 2px solid #ff7720;

}


#navbar ul:hover .active a {

   padding: none;

   border: none;

   color: #8c8c8c;

}


#navbar ul .active a:hover {

   color: #ff7720;
```

```css
    padding: 10px 0;

    border-bottom: 2px solid #ff7720;

}




.site-footer

{

 background-color:#26272b;

 padding:45px 0 20px;

 font-size:15px;

 line-height:24px;

 color:#737373;

}

.site-footer hr

{

 border-top-color:#bbb;

 opacity:0.5

}

.site-footer hr.small

{

 margin:20px 0

}
```

```html
    </style>

  </head>

  <body>

    <div id="container">

    <div id="background"></div>

    <div id="navbar">

      <ul>

        <a style="color:Black; font-size: 40px;">EMPLOYEE TRACKING SYSTEM</a>
```

```html
        <li><a href="http://localhost:8080//EmpTrackingSystem/">Home</a></li>

        <li><a href="http://localhost:8080//EmpTrackingSystem/Emplogin.jsp">Employee</a></li>

        <li><a
href="http://localhost:8080//EmpTrackingSystem/Managerlogin.jsp">Manager</a></li>

        <li><a href="http://localhost:8080//EmpTrackingSystem/Adminlogin.jsp">Admin</a></li>

      </ul>

    </div>

     </div>

    <div id="img">

      <img src="IMG/Employee-monitoring.JPG" width="100%" height="600">

    </div>

      <!-- Site footer -->

  <footer class="site-footer">

   <div class="container">

    <div class="row">

     <div class="col-sm-12 col-md-6">

       <h6>About</h6>

       <p class="text-justify">Employee Tracking System<i>Employee Tracking System is open to
admins, Managers, and regular

employees.</i>Among all users, only the admins have all privileges to access all

the information of Employee Tracking System. So the admins will insert,

update, remove the employees, departments, generate reports and whereas

other users will have limited roles. Once the user's login they can perform few

tasks specific to their role.

Such as Managers can update a project report and give rating to

employee working on that project.

Employee can also update there work done on the project and they can

also apply for leave.</p>

     </div>
```

```
        <div class="col-xs-6 col-md-3">

          <h6>Quick Links</h6>

          <ul class="footer-links">

            <li><a href="http://localhost:8080//EmpTrackingSystem/Aboutus.jsp">About Us</a></li>

            <li><a href="http://localhost:8080//EmpTrackingSystem/Contactus.jsp">Contact Us</a></li>

          </ul>

        </div>

      </div>

      <hr>

    </div>

  </footer>

    </body>

</html>
```

" EMPLOYEE TRACKING SYSTEM"

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OUTPUT DESIGN

" EMPLOYEE TRACKING SYSTEM"

Home Page

" EMPLOYEE TRACKING SYSTEM"

" EMPLOYEE TRACKING SYSTEM"

Admin Side

" EMPLOYEE TRACKING SYSTEM"

" EMPLOYEE TRACKING SYSTEM"

Manager

" EMPLOYEE TRACKING SYSTEM"

Employee :

" EMPLOYEE TRACKING SYSTEM"

REPORTS

" EMPLOYEE TRACKING SYSTEM"

empid	ename	phone	email	eadd	dob	pass	gender	design	img
4	Nikhil Patil	9874589612	nikhil12@gmail.com	shivne galli	2001-02-15	12345678	Male	Backend Developer	BLOB
5	Sahil	9845712536	sahil12@gmail.com	kolindre	2000-05-24	75315987	Male	front end developer	BLOB
6	Rahul Chavan	8974152436	rahul@gmail.com	at/po pune	1999-06-14	147258369	Male	Backend Developer	BLOB
7	Omkar Dalvi	8569412578	omkar2@gmail.com	at/po gadhinglaj	2001-06-01	123654789	Male	front end developer	BLOB
8	vinay uttukar	9847523614	vinay23@gmail.com	at/po uttur	2002-05-14	147852369	Male	Backend Developer	BLOB
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

manid	mname	phone	memail	madd	dob	pass	gender	mimg
1	Gita Bhole	9857486982	geetabhole1@gmail.com	shivne galli 153	1998-05-02	12365478	Female	BLOB
2	omkar gayli	8457963215	omkarg@gmail.com	at/po nesari	2001-05-29	147852369	Male	BLOB
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

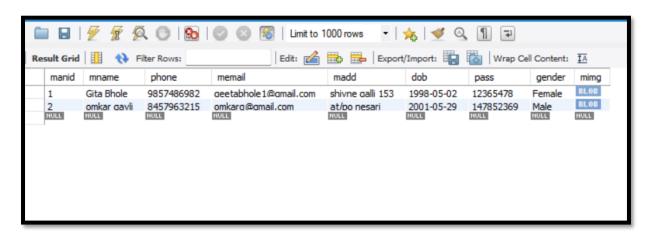| proid	proname	proemp	cliname	devplat	protype	prodbtech	proman	prodescrib
1	Railway Ticket Booking	Shubham	Government	java	Web Based	my sql	shubham	Ticket Booking for Passenger
5	Shop Managment	vinay	Pratik Mohite	.net	System	my sql	Gita	Managing All Data Of Shop
6	Bus Ticket Booking	omkar	Vaibhav Travels	java	Web Based	my sql	Omkar	Ticket Booking for Passenger
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

" EMPLOYEE TRACKING SYSTEM"

attendid	eatname	attdate	atfhalf	atshalf
1	Nikhil Patil	2023-06-16	Present	Present
2	Nikhil Patil	2023-06-16	Absent	Present
3	vinav	2023-06-18	Present	Present
4	omkar	2023-06-18	Present	Present
NULL	NULL	NULL	NULL	NULL

leaveid	fdate	tdate	reason	empna	edeg
1	2023-06-19	2023-06-21	Friends Marriage	Nikhil patil	Backend Developer
2	2023-06-21	2023-06-22	Friends Marriage	sahil Chavan	Front End Developer
NULL	NULL	NULL	NULL	NULL	NULL

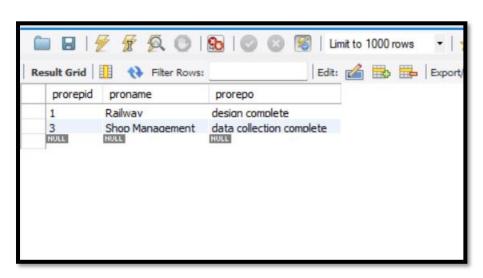| prorepid	proname	prorepo
1	Railwav	design complete
3	Shop Management	data collection complete
NULL	NULL	NULL

" EMPLOYEE TRACKING SYSTEM"

LIMITATION

- **Limitation of system**

1. User should have minimum (basic) knowledge about computer to handle thesoftware.
2. User should be trained for handling the system and interact with the variousfacilities provided in it.
3. Maintenance cost of expensive.
4. Only a trained user can handle the system.

CONCLUSION

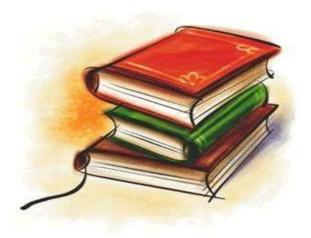After designing and implementation of this system we have come to the followingconclusion.

1. Due to computerization we can easily update, deletes or insert the data of userand hence retrieval of any record that is stored becomes easier.

2. Due to computerization, a lot of time is saved because all the paper work can bedone on computer with greater accuracy.

3. Changes can be made immediately and efficiently as we require.

4. print- out of updated records can be taken.

5. Due to computerization department can maintain information of student/staff easily inthe computer itself.

Suggestion

To overcome the limitation of the system there are some suggestions-

1. For user information & according addition of new module is required.

2. For better accuracy, correctly inputting data is required.

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   www.wikipedia.com

➕ *Youtube Channels :*

1.   Code with harry
2.   Clever Programmer
3.   Freecodecamp.org

Books :

1.   Head first java
     Author : Kathy Sierra & Bert Bates

2.   Java : A Beginners guide
     Author : Herbert schildt