COLLEGE NAME

Major Project

On

EMPLOYEE MANAGEMENT SYSTEM

Name of Guide: -

TEACHER NAME

Designation: -

TEACHER DESIGNATION

Institute: -

COLLEGE NAME

Student Name:-

STUDENT N

Enrollment No:-

ROLL NO

Course:-

COURSE

COLLEGE LOGO

COLLEGE NAME

COLLEGE ADDRESS

Session: 2021 – 2022 (Even Semester)

1

DECLARATION

I **STUDENT NAME** student of B.Tetch (IT) hereby declare that the Project titled **"Employee Management System"** which is submitted by me to **TEACHER NAME**, COLLEGE NAME, COLLEGE ADDRESS, in partial fulfillment of requirement for the award of the degree of DEGREE NAME.STREAM, has not been previously formed the basis for the award of any degree, diploma or other similar title or recognition. The Author attests that permission has been obtained for the use of any copy righted material appearing in the Dissertation
/ Project report other thanbrief excerpts requiring only proper acknowledgement in scholarly writing and all such use is acknowledged.

Place- CITY   Student Name- NAME

Date- DATE   Enrollment No- ROLL NO

COLLEGE LOGO

GUIDE CERTFICATE

I hereby certify that the Seminar Report by **NAME**, student of **DEGREE. (STREAM) SEMESTER Semester ROLLNO** with title **"Employee Management System"** which is submitted to **COLLEGE NAME, COLLEGE ADDRESS** in partial fulfillment of requirement for the award of the degree of Bsc. IT is an original contribution with existing knowledge and faithful record of work carried out by him/her under my guidance and supervision and to the best of my knowledge this work has not been submitted in part or full for any Degree or Diploma to this University or elsewhere.

Place – CITY

Date:

PROFESSOR NAME

Assistant Professor

COLLEGE NAME

ACKNOWLEDGEMENT

It is high privilege for me to express my deep sense of gratitude to those entire faculty Members who helped me in the completion of the project, specially my internal guide **Mr. TEACHER NAME** who was always there at hour of need. My special thanks to all other faculty members, Batchmate & Seniors of COLLGE NAME for helping me in the completion of project work and its report submission.

STUDENT

NAME

ROLL NO

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Abstract

Human resource difficulties face all businesses, large and small. Because every organization has different staff management needs, we create custom employee management solutions that are tailored to your needs. This is intended to aid strategic planning and guarantee that your firm has the appropriate degree of human resources to meet your long-term objectives. This approach will help you to better manage your resources in the long run.

I.   Introduction

Everything has been digitised in our age of ever-increasing technology. The human workforce has grown as a result of the abundance of job options. As a result, a system that can handle the data of such a vast number of people in a company is required. Because of its user-friendly design, this project makes the process of keeping records easier. The "EMPLOYEE MANAGEMENT SYSTEM" was created to address the issues that plagued the previous manual system. This programme is designed to eliminate, and in some cases, decrease, the problems that the current system has.

To eliminate data entry mistakes, the software is kept as simple as possible. When inputting incorrect data, it also displays an error notice. The user doesn't require any formal expertise to operate this system. The admin will be able to add new employees to this project. Employee data may also be seen and printed by the administrator. Admins can also remove an employee and change their details.

II.   Objective

The objective of this work is to give a complete approach to personnel information management. This will be accomplished by developing and deploying an HR management system that will result in a significant shift in the way employee data is managed.

This system's objectives include the following:

1. Design of an HR management system to meet needs such as adding and deleting employees, viewing and printing employee data, and updating employee information.
2. Employee data is stored in a well-designed database.
3. An easy-to-use interface that will let user interact with the system.

III. Methodology

The methodology to complete this project is as follows:

1. I explored net beans, concepts of swings and applets.

2. For further and a deeper understanding, I even referred to some articles, books, journals, websites and news articles.

Below are the important concepts on which the work has been done and with the support of these I was able to work on my project.

NET BEANS- NetBeans is a Java-based integrated development environment (IDE). NetBeans enables the creation of applications using a set of modular software components known as modules. NetBeans is compatible with Windows, Mac OS X, Linux, and Solaris. It also allows other programming languages to be extended. In addition to Java programming, Third-party developers can expand NetBeans-based applications, including the NetBeans IDE.

JAVA- High-level, Object-Oriented programming language which help programmers to run their applications efficiently. JAVA is the programming language which comes into our minds when we talk about android application. By using JAVA as a programming language, programmer can develop any type of android application easily. JAVA also provides many libraries which also helps in making efficient android application. Swing is a Java GUI widget toolkit. It's part of Oracle's Java Foundation Classes (JFC), which provides an API for creating graphical-user-interfaces for Java programmes.

SWING- Swing is a Java GUI widget toolkit. It's part of Oracle's Java Foundation Classes (JFC), which provides an API for creating-graphical-user-interfaces for Java programmes. Swing was created to give a more advanced collection of graphical user interface components than the previous Abstract Window Toolkit (AWT). Swing offers a pluggable look and feel that allows applications to have alook &feel that is unconnected to the underlying platform, as well as a look & feel that emulates the look & feel of numerous platforms.

SQL- SQL (Structured Query Language) is a computer language that is used to manage data in a relational database management system (RDBMS) or for stream processing in a relational data stream management system (RDSMS). It's especially beneficial for dealing with structured data, or data that has relationships between entities and variables.

IV. Feasibility Study

In order to do a feasibility study, we must consider the following:

1. Technical Feasibility

The availability of hardware & Software necessary for the creation of the system, as-well-as the compatibility and maturity of the technology planned to be used, and the availability of the requisite technical staff to create the system, are all factors to consider.

2. Operational Feasibility

Problems that may develop during operations are the focus of operation feasibility. There are two parts to this problem to consider:

- What are the chances that the solution provided will not be used or will not work?
- What is the inclination of the management and end users towards the solution?

3. Economic Feasibility

The concept of economic feasibility is determining whether or not the potential benefit of fixing difficulties is worth while. Because member needs &alternative solutions haven't been specified at this point, it is difficult to estimate the cost at this level.

V. IMPLEMENTATION AND RESULT

Following are the screens of the Employee Management System where you can see all the features of this system in use and you can also see the GUI of the system:

1. **Login frame** – This is the login frame of this system where user have to enter the required credentials to have access for the main dashboard.

Fig. 1

2. **Main Dashboard** – After login in, user is directed to the main dashboard of this system where user can perform various operations like adding an employee, deleting an employee
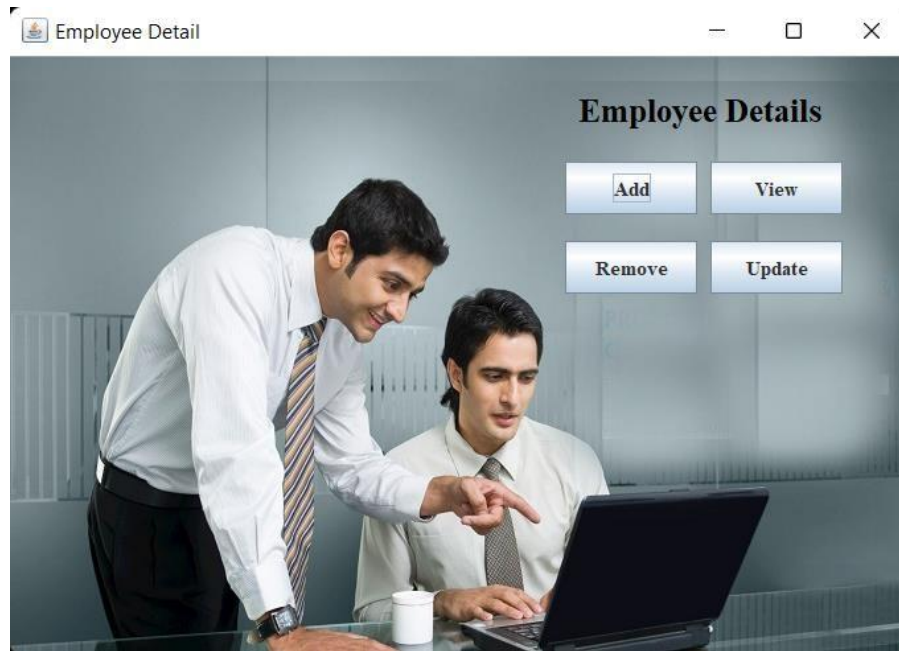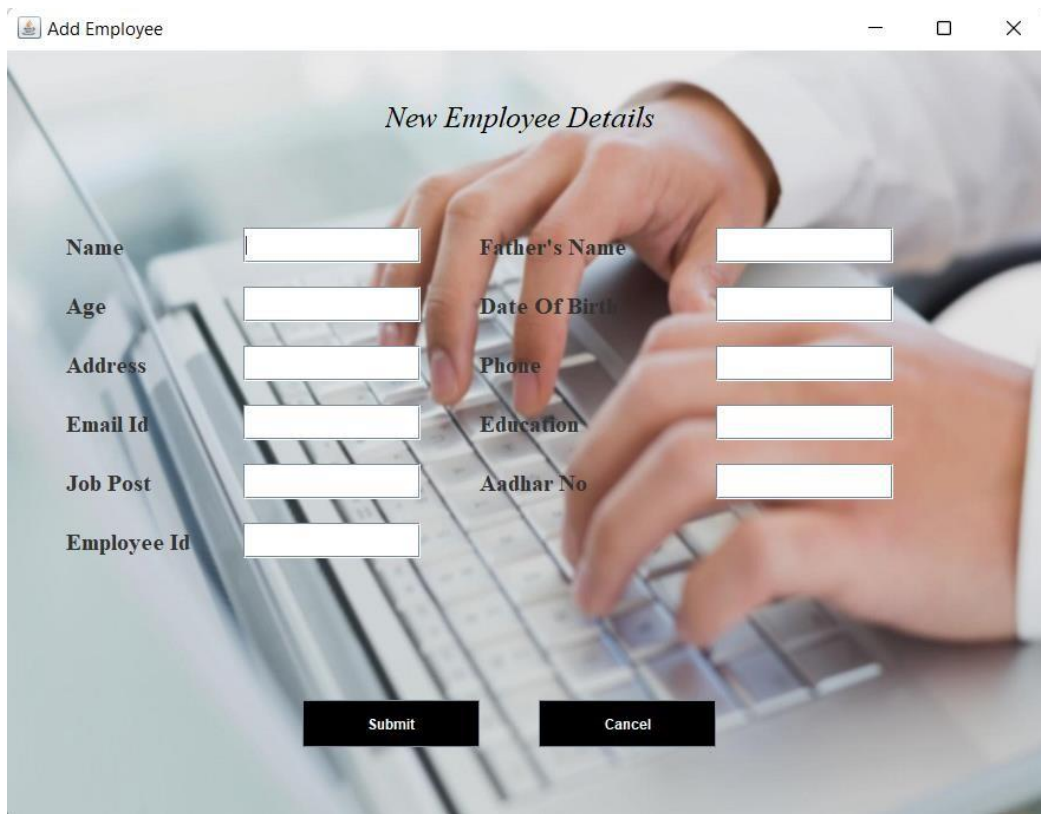

Fig. 2

3. **Add employee** – Here user have to enter all the required credentials to add a new employee to the system.

Fig. 3

4. **Remove employee** – User has to enter the employee id in order to delete his information from the system.

Fig. 4

5. **View and update employee** – In order to view and update employee information, the user have to enter employee ID.

Fig. 5

VI. Testing

Test ID	Test-Purpose	Test-Condition	Expected-Output	Output	Remark
TC1	Check Username & Password	If user details are not correct, display error message	Grant access to main dashboard.	Access granted to main dashboard	Test successful
TC2	To add new user to the system	If user already exists, error message should be displayed.	New user should be added.	New user added successfully	Test Successful
TC3	To view existing employee information	If employee exists, then information should be displayed, else error message should be displayed.	Employee information should be displayed.	Employee information displayed.	Test Successful
TC4	To remove an employee	If employee exists, then employee should be removed else error message should be displayed.	Employee should be removed.	Employee removed successfully.	Test Successful
TC5	Update employee information	If employee exists, then information should be updated.	Employee information should be updated.	Employee information updated successfully	Test Successful

VII. Conclusion

The goal of the initiative is to digitise personnel databases in businesses and provide administrators access to computers. Employees and administrators use software as an information system. The user can store his or her database safe and secure for an indefinite amount of time here. Adding, deleting, accessing, and changing employee information is simple and easy using the Employee Management System.

VIII. Future Scope

The GUI and the features added to this system are the basic ones. In future, there will be a better Graphical User Interface and there will be more features added to this system. If Graphical User Interface is improved then this system will be more user friendly and more features added will make this system a lot better and HR will be able to perform more operations.

IX. References

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3) Ian Sommerville, "Software Engineering", 9th Edition, Addison-Wesley, 2011.

4) Avison, D. and Fitzgerald, G. (2003).Information systems Development Methodologies, Techniques and Tools.3rd Edition. McGraw-Hill Education Limited Bershire

5) Juan Manuel Munoz Palacio, Information systems development methodologies for Data-driven Decision Support Systems, 2010.

6) Deitel, PJ & Deitel, HM, 2008, Internet & World Wide Web How To Program,Dorling Kindersley, India.

WEEKLY PROGRESS REPORT (WPR)

For the week commencing: 03/01/2022

WPR - 1

Enrolment Number   :   ROLL NO

Program   :   DEGREE

Student Name   :   NAME

Faculty Guide's Name   :   NAME

Co- Guide's Name   :

Project Title   :   GUI based application for HR solution

TARGETS SET FOR THE WEEK

- Finalize the project topic

PROGRESS FOR THE WEEK

- Discussed project topic with my NTCC guide and finalized it

FUTURE WORK PLANS

- Project planning, Internet downloads

WEEKLY PROGRESS REPORT
(WPR)

For the week commencing: 04/01/2022

WPR - 2

Enrolment Number   :   ROLL NO

Program   :   DEGREE

Student Name   :   NAME

Faculty Guide's Name   :   NAME

Co- Guide's Name   :

Project Title   :   GUI based application for HR soution

TARGETS SET FOR THE WEEK

- Project planning
- Internet downloads
- Overview

PROGRESS FOR THE WEEK

- Project planned
- Internet downloaded
- Overview

FUTURE WORK PLANS

- GUI designing
- Coding

Project Title   :   GUI based application for HR soution

<u>COLLEGE NAME</u>

WEEKLY PROGRESS REPORT
(WPR)

For the week commencing: <u>04/01/2022</u>

WPR - 3

Enrolment Number	:	ROLL NO
Program	:	DEGREE
Student Name	:	NAME
Faculty Guide's Name	:	NAME
Co- Guide's Name	:	
Project Title	:	GUI based application for HR soution

TARGETS SET FOR THE WEEK

- GUI designing
- Coding

PROGRESS FOR THE WEEK

- Designed GUI
- Started working on code

FUTURE WORK PLANS

- Deciding the features to be added
- Finalizing decided features

PROGRESS FOR THE WEEK

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COLLEGE NAME

WEEKLY PROGRESS REPORT
(WPR)

For the week commencing:
24/01/2022

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WPR - 4

Enrolment Number   :   ROLL NO

Program   :   DEGREE

Student Name   :   NAME

Faculty Guide's Name: NAME

Project Title   :   GUI based application for HR soution

TARGETS SET FOR THE WEEK

- Deciding the features to be added
- Finalizing decided features

PROGRESS FOR THE WEEK

- Features that will be added to the project are : Login page, main dashboard, add employee, viewemployee & print data, removing an employee, updating information.

COLLEGE NAME

WEEKLY PROGRESS REPORT
(WPR)

For the week commencing: 31/01/2022

WPR - 5

Enrolment Number   :   ROLL NO

Program   :   DEGREE

Student Name   :   NAME

Faculty Guide's Name   :   NAME

Co- Guide's Name   :

Project Title   :   GUI based application for HR soution

TARGETS SET FOR THE WEEK

- Start working on creating connection class

PROGRESS FOR THE WEEK

- Done with the development of connection class that will be used to connect to the database tostore employee data

FUTURE WORK PLANS

- Start working on creation of front page of the project

Major Project

<u>Daily Diary</u>

Daily Diary: 1   **Daily Diary Remaining:** 14

Student Name: NAME   **Program:** DEGREE

Enrollment Number: ROLL NO

Project Title: GUI based application for HR solution

<u>Week's Summary</u>

Days/Time	
3/01/2022 (Monday)	Started searching the project.
4/01/2022 (Tuesday)	Decided the project.
5/01/2022 (Wednesday)	Studied overview of the project.
6/01/2022 (Thursday)	Discussed and finalized it with my guide.
7/01/2022 (Friday)	Analyzing the week's progress and identifying the objectives of next week.