Project Report :-

ISLAMIA UNIVERSITY OF BAHAWALPUR
MAJOR PROJECT ON
EMPLOYEE MANAGEMENT SYSTEM

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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.

1. 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.

2. 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.

3. 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.

VS CODE-

Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages and runtimes (such as C++, C#, Java, Python, PHP, Go, .NET).

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-userinterfaces for Java programmes.
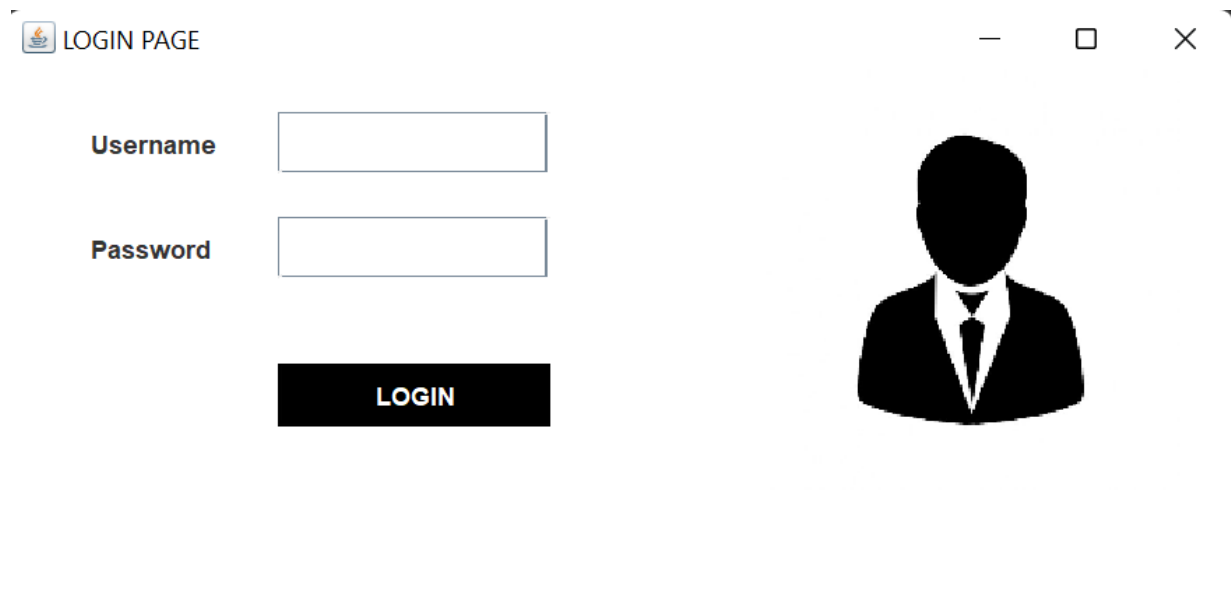
SWING-

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.

4. 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.

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.

3. Add employee –

Here user have to enter all the required credentials to add a new employee to the system.

Add Employee Details

Employee Details

Name		Father's Name	
CNIC		Salary	
Date of Birth		Address	
Phone No.		Education	BS(AI)
Email ID		Job Role	

Employee ID : 309415

ADD   **BACK**

4. Remove employee –

User has to enter the employee id in order to delete his information from the system.

Remove Employee

Employee ID `488705 ▾`

Name :   Umair Amjad

Phone :   03116035107

Email :   umairwaraich2...

[Delete]   [Back]

5. View and update employee –

In order to view and update employee information, the user have to enter employee ID.

Employees Details

Search by Employee ID: 396314

| Search | Print | Update | Back |

empId	name	f_name	salary	email	dob	cnic	address	jobrole	phone	education
396314	Babar Azam	Azam Ali	9000000	babar@gma...	Dec 5, 1988	31205-1234...	Darbar Mah...	Senior Deve...	031234567	BS(AI)
488705	Umair Amjad	Amjad Iqbal	100000000	umairwaraic...	Dec 5, 2003	31205-1234...	Darbar Mah...	Developer	03116035107	BS(AI)

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

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.