INTRODUCTION

This project is based on Web Application Development using PHP and MySQL. PHP or Hypertext Preprocessor is a commonly used programming language for designing websites and webpages. PHP was previously known as Personal Home Page. It converts a static webpage to dynamic. PHP can run by itself using a server configuration and a database connection.

"RFI Employee Leave Management Software" is a simple web application which has been made using some of the basic concepts of web development.
The framework and designing has been done using HTML, CSS and JavaScript & jQuery. The website has been locally hosted using a suitable Apache software. An Apache software creates a port for communication and configures server access variables and it is the most widely used web server software.

This web application has been designed for the use of employees to apply for leave and for their ease of use.

OBJECTIVE:

To allow the employees to easily apply for leaves using the online website/application rather than the tedious process of physically applying with a form/application. All the details are kept stored in the database, along-with the leave history. This saves a great deal of time for both the employees and the administrator, who can easily keep track of all the employees and their leave applications. The UI has been designed to be very user-friendly.

FUNCTIONALITIES:

1. Welcome Page : This is the first page of the website which has three options of Employee Login, Employee Password Recovery and Admin login(for use by the administrator). These three options are shown in the sidebar.

2.Employee login option
 a) Employee Welcome Page: This is the page that appears upon employee sign-in using the registered email and password, that is stored in the database. This page shows the employee id(which is unique) along-with the options : My Profiles, Change Password, Leaves, Sign Out.

b) My Profiles Page: This page shows all the information about the employee, like name, address, employee id, department, phone number, DOB etc. There is also an option of updating the employee's information.

c) Change password Page: This page allows the employees to change their passwords. The employee has to type in the current password and new password and also confirm it.

d) Leaves option- It has two options under it
i) **Apply for Leave :** This page allows the employee to apply for a leave by giving details about the type of leave he/she wants to take, the duration of leave and description of the leave.
ii) **Leave History:** This page shows all the leaves taken by that particular employee till date and their full details.

e) Sign out option: Clicking this option allows the employee to log out of his profile and this redirects to the main sign in page again.

3) Employee Password Recovery option: Clicking on this option takes the employee to a page where he is asked to enter his unique ID along with his registered email id. if these details match he is redirected to the change password page.

4) Admin Login option
a) Admin Login Page: This page is for the administrator log in, where he is asked to enter his username("admin") and his password.

b) Admin Welcome Page : This is the page that the admin is redirected to upon login, where he is shown the option of changing his password. The sidebar consists of the following options:
i) Dashboard - This page shows the admin all the details about the total number of registered employees, total number of departments/sections and the total number of leave applications. The page also shows the recent leave applications along-with their deatils and their status, which can also be viewed separately.

ii) Department - This further has two options of adding a new department and managing the existing departments.

iii) Leave Type - This further has two options of adding a new leave type and managing the existing types.

iv) Employees - This further has two options of adding new employees and managing the existing ones.

v) Leave Management - This further has four options of viewing All Leaves, Pending Leaves, Approved leaves and Not Approved Leaves.

vi) Sign Out - Clicking this option logs out the admin and takes him back to the Admin Sign-in Page.

TOOLS USED :

The back end development for this website/web application has been done using PHP as the main programming language. The Apache software used for locally hosting the website is WAMP Server. Some basic widgets such as Clickable

Spinner, Text View, Password, Datepicker, Timepicker have been used.
User data has been stored in database using MySQL.

SYSTEM CONFIGURATION :

The web application has been developed using the minimum of hardware and software requirements and will run on almost all devices. The views or layout maybe different for different browser APIs as different widgets have been used.

Hardware requirements:

For development :

Processor	Intel Core i7
RAM	2 GB
Storage(Hard Drive)	512 GB

Software requirements:

For development :

Operating System	Windows 7 Professional
System type	32-bit Operating system
Working IDE used	Notepad++ Version 6.9.1
Database Management	MySQL
Back End Development	PHP
Front End Development	HTML, CSS, JavaScript, jQuery(for plugins)
Browser	Internet Explorer
Apache Software	WAMP Server

This web application will run on almost all PCs or devices which has a suitable browser. There are no such specific hardware or software requirements.

DATA FLOW DIAGRAM (DFD)

CODING :

The back end coding has been done in PHP.
The front end development has been done using HTML, CSS, JavaScript. To make the website more attractive and user-friendly jQuery has also been used.

CONCLUSION :

I have used different languages and integrated them to make this website as user-friendly as possible. This website has all the basic features of an employee leave management system. I have even included a database for the employees using MySQL.

REFERENCES :

I am highly obliged to Mr. Partha Halder, Head of Section/ITC for guiding me in this project.

I also referred to the following sites :
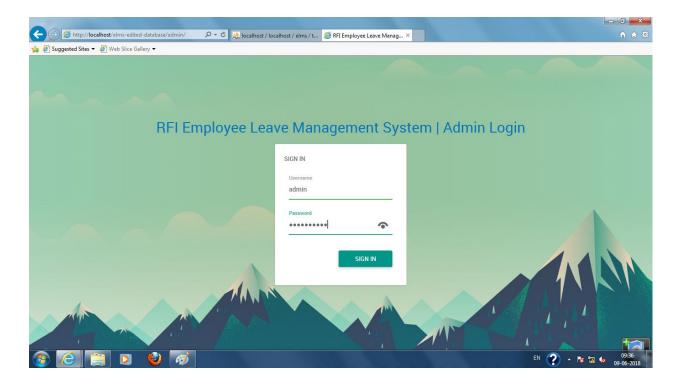
http://plugins.jquery.com/tag/jquery/

https://www.w3schools.com/css/css_website_layout.asp

https://learn.shayhowe.com/html-css/building-your-first-web-page/
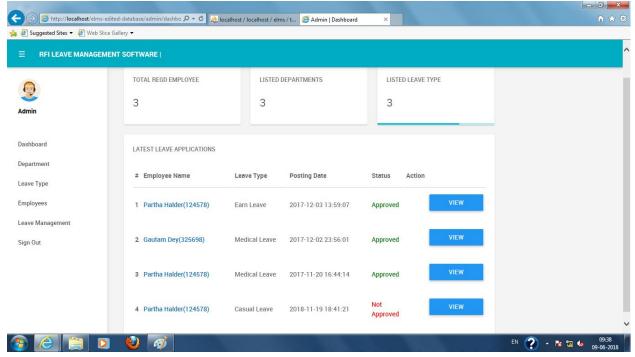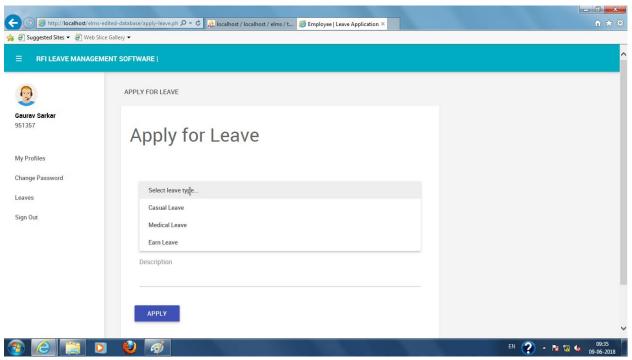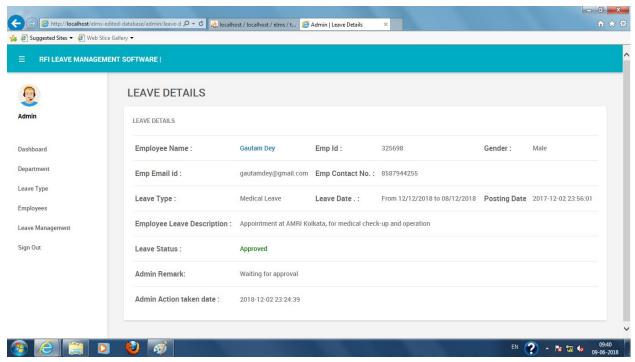
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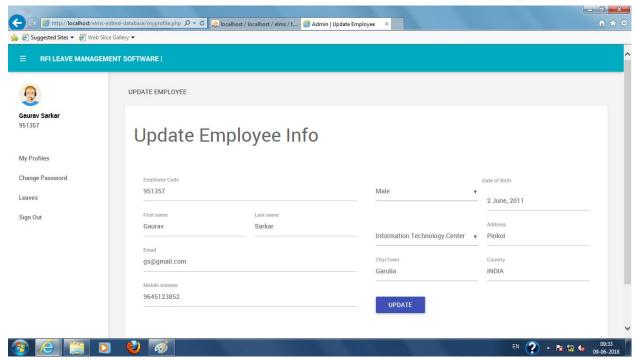
Main Page

Admin Log-in Page

Admin Dashboard

Applying for Leave

Leave Details

Employee Profile Page