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**Project Code:** 28. Online Leave Management System

1. **Significance of Project**

The significance of the Project is to provide an automation for the leave application and to avoid paper work and allow applicant to apply for leave 24\*7 from anywhere. It provides an interface to submit and retrieve all the applicant’s previous leaves as well. Employees or users’ data remains same and cannot be accessed by just anyone. Authentication is what makes this system significant.

1. **Comparison of the project used with existing approaches**

Existing approaches uses the employee id as the main approach to distinguish between the employees but the project uses the phone number as well to differentiate between the employees. However, the basic functionality remains the same for both.

1. **Innovation in the project**

The project has additional security so that no SQL injection takes place for unauthorized user access.

**Brief Answers in relevance to the project codes**

1. Will different sections of your site require different designs, layouts or coloring?

**Description:** The different sections of the site employ different coloring. The layout changes from the Log In page to Dashboard page. The design for the header and footer of the page remains constant, what changes is the dashboard layout to a certain extent only. It is so as to maintain coherence in the site.

1. What kind of layout you employed in project?

**Description of the layout:** The layout of the site has a series of div tags to create a layout with slight changes in color, the dashboard shows changes in sections depending upon the user privilages.   
**Code snippet for the layout:** <div>my code</div>

1. Whether sub-queries are used using joins, having clause, group by, order, count, sort etc?   
   **Description (purpose of use):** Group by is used for users with same privileges.

Sort is used for arranging the used based on timestamp.

**SQL Query:** select \* from database where email=$\_POST order by timestamp;

1. How data is fetched from the database?  
   The data is fetched from the database using the MySQL query.

**Code snippet for database connectivity:**

Mysqli\_connect(“localhost”,”root”,”password”,”dbname”);

1. What are the different kinds of explicit validations applied in the project?

**Description:** The validations applied for the site are not to select a past date, the end date of the leave must be after the start date of the leave. And mandatory files should be empty.

**Code snippet for the applied validation**

$result=mysqli\_query($conn,”select \* from database where email=’$\_POST[t1]’”);

$count=mysqli\_num\_rows($result);

If($count>0){echo “account already registered”;}

1. What kind of security technique is employed in the project?   
   **Description:** The site is SQL injection protected.

**Code snippet:**

required pattern=”A-Za-z0-9”;

$var=md5($\_POST[‘password’]);

1. Does the content suffice the purpose of website in terms of functional requirements?

**Description:** Yes, the content suffice the website in terms of functional requirements by using different functionalities such as specific user access and log in facility and dynamically updating the leaves.

1. Have you optimized query for quick retrieval of data from the database?

**Description:** The query is optimized by only retrieving data that is required and avoiding functions on the left hand side of the queries. This optimizes the query as it takes less time to run through the database.   
**SQL Query:** Select \* from database\_name where email=’$\_POST[email]’;

1. Have you employed any php function for the modularization of web pages?

**Description:** Yes, the website is modularized into two modules mainly login/signup with security and dashboard.

**Code snippet of the function:** printleaves($\_email);

1. Have you used GitHub repository to maintain different revisions of the project?

**Description:**Yes, I have maintained, but due to security reasons, I cannot upload the whole project onto GitHub.

**GitHub Link:** **https://github.com/adityakumar1896/GitHub**