RIPHAH
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Database
Project Report

Title: **Movie Management System**

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Table of Contents

1. Introduction

The *Movies Management System* is a web-based database application developed to manage and display a collection of movies. It offers role-based functionality: regular users can search and view movie information, while administrators can add new movies to the database through the website interface. The system is built using PHP and MySQL, with HTML, CSS, and JavaScript for the user interface.

2. Objective

- To create a simple, functional movie database system.
- To provide a user-friendly interface for viewing and searching movies.
- To enable secure admin access for adding movies directly from the website.
- To demonstrate frontend-backend integration using PHP and MySQL.

3. System Features

User Role:

- Search for movies by name or genre.
- View detailed information about available movies.

Admin Role:

- Add new movies through a web form.
- Submit movie name, release year, genre, and a description.
- Access is restricted to the admin interface.

4. Database Design

1. The database includes first table named movies with the following fields:

Field Name	Type	Description
name	VARCHAR	Movie title
year	INT	Release year
genre	VARCHAR	Movie genre
description	VARCHAR	Short description of the movie
rating	FLOAT	Rating of the movies
language	VARCHAR	Language of the movie

2. The database include second table named admin with the following fields:

Field Name	Type	Description
name	VARCHAR	Username of admin
password	VARCHAR	Password of the admin

5. Challenges Faced

The major challenge was establishing a successful connection between the website and the MySQL database. Initially, the site failed to retrieve and insert data due to issues like:

- Incorrect database credentials.
- Improper configuration of the PHP script.
- Missing PHP extensions.

These problems were resolved through debugging, testing local server settings, and writing secure PHP code to handle form inputs and SQL queries.

6. System Implementation

The system was implemented using the following tools and technologies:

- **Frontend:**
  - HTML for structure.
  - CSS for styling and layout.
  - JavaScript for basic interactivity.
- **Backend:**

    - PHP to handle form submissions and database operations.
- **Database:**
    - MySQL used for storing and retrieving movie data.
- **Development Environment:**
    - Visual Studio Code as the code editor.
    - Local server setup using XAMPP for running PHP and MySQL.

Key Implementation Points:

- PHP scripts handle form data securely using POST method.
- Admin interface includes input validation to prevent SQL injection.
- Movies are fetched dynamically and displayed using PHP loops.

7. Conclusion

This project demonstrates how a web-based application can interact with a relational database system effectively. The Movies Management System allows both users and admins to interact with movie data in real-time. It was a valuable learning experience in connecting the frontend with backend databases and managing data through dynamic interfaces.

8. GitHub Repository Link

https://github.com/Harry-Potter-1122/Database-Project.git