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Curfew E Pass Management System

[1] Poovarasan K, [2] Karthikeyan. S
[1] Student, Department Of Mca, Er Perumal Manimekalai College Of Engineering(Autonomous),Hosur, Tamil Nadu, India
[2] Assistant Professor, Department Of Mca, Er Perumal Manimekalai College Of Engineering(Autonomous),Hosur, Tamil Nadu, India

Abstract: ***The goal of the project "CURFEW E-PASS MANAGEMENT SYSTEM" is to develop a system that can be utilized during curfew to efficiently manage people's passes during Covid-19. A computer's internal memory can store data and instructions in an electronic form that may be retrieved at any moment. It makes the task easier to complete and decreases the amount of documentation required. Lockdown is intended to prevent the spread of infection, and it entails not leaving the house unless absolutely essential. However, under unusual circumstances, people may need to go from one town to another, and this e-pass generating mechanism will aid in people's contact-less transportation. The electronic version of the paper gate pass is available.***

I. INTRODUCTION

Is a web-based technology that will maintain the records of passes issued by the government and admini stration during any curfew or lockdown. To guarantee that vital services continue to operate during the COVID-19 pandemic, valid passes must be obtai ned as quickly as feasible. This system for generating and managing e-passes during curfew and lockdown is a fully automated system that processes data at a breakneck pace and in a systematic manner. It also improves efficiency and effectiveness by minimizing the amount of physical labour required. The software is intended to deliver accurate and reliable data. The PHP-powered programming ensures that the agency receives clear and cost-effective services. This simple solution allows users to access and amend their information, as well as print at a low cost. The code is designed to provide data that is both reliable and error-free. This simple method allows users to view and amend their information, as well as print documents quickly. Because the database is powered by My SQL, it is portable

II. Software Analysis

A. Front-End Technologies

- **HTML**: For structuring web pages.
- **CSS**: For designing an intuitive and responsive user interface.
- **JavaScript**: For client-side scripting and dynamic interactivity.

B. Back-End Technologies

- **PHP**: For server-side logic and data handling.

C. Database

- **MySQL**: A relational database used to store and retrieve employee and payroll data.

D. Development Tools

- **Visual Studio Code**: IDE for code development.
- **XAMPP**: For hosting the Apache server and MySQL database locally.

II. Existing System

The system has been designed after a detailed study of various algorithms for the same. The first step of face recognition, i.e., face detection uses algorithms like colour segmentation, template matching and algorithms like Eigen & Fisher face for face recognition which is the second step.

III. Proposed System

The proposed EPMS addresses these challenges by offering:

- **Real-Time Operations**: Automated updates to employee details and payroll calculations.
- **Error Reduction**: Accurate salary and deduction computations.
- **Secure Data Access**: Encrypted data storage with user authentication.
- **Responsive Design**: Accessible across devices with a consistent user experience.

V. Modules

A. User Registration & Authentication

User profile management (personal information, contact details).Multi-factor authentication (MFA) for added security.

B. Pass Issuance Module

Application for passes (e.g., travel, event access).Pass selection (type of pass, duration, etc.).Verification of user eligibility.Payment gateway integration (for paid passes).

C. Pass Validation & Verification

Admins can add, update, delete, and moderate news articles manually or from external sources.

D. Comment and Interaction Module

Users can comment on articles, express opinions, and engage in discussions.

VI. Architecture Diagram

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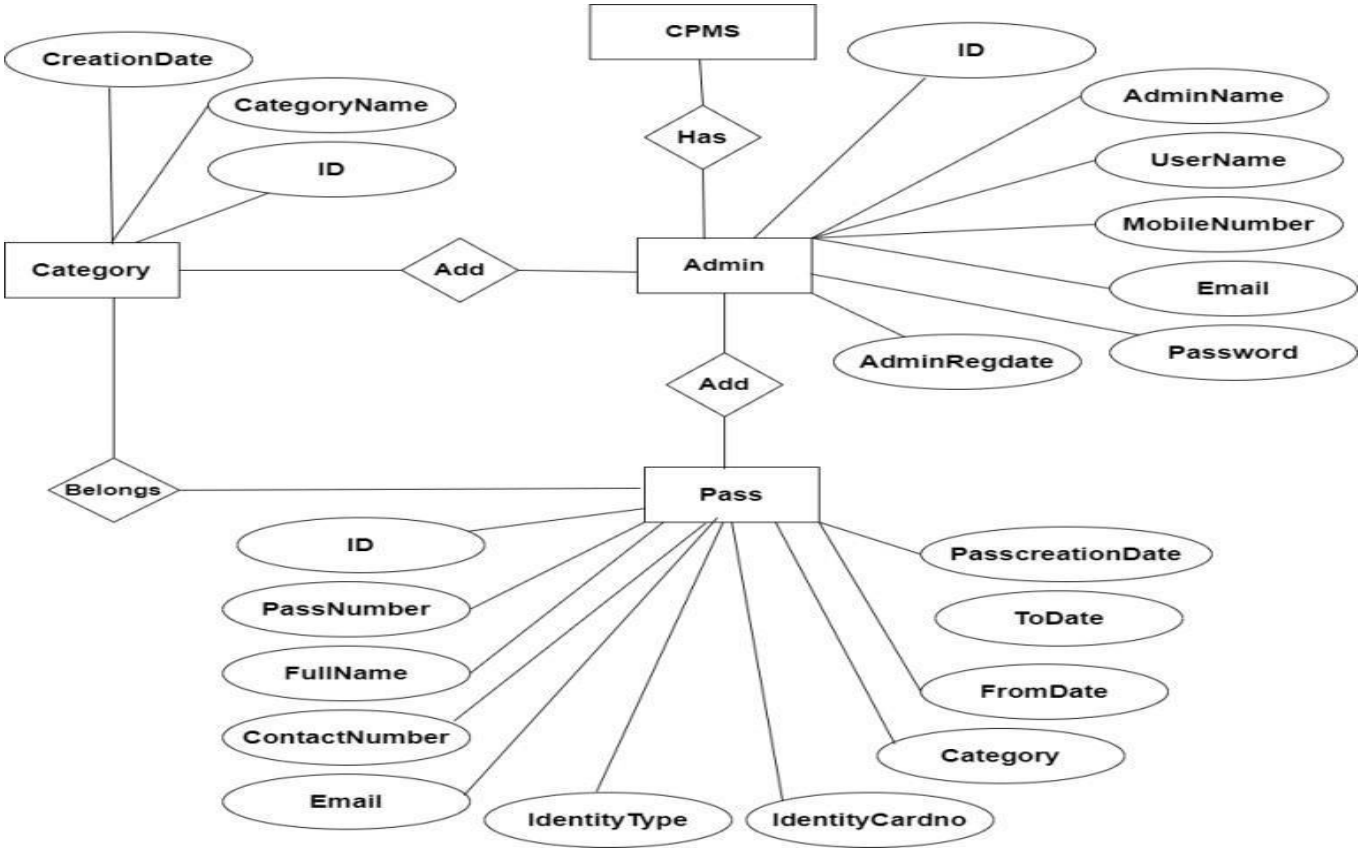

Fig.1. Use Case Diagram

VII. Result

The EPMS was successfully implemented using HTML, CSS, JavaScript, PHP, and MySQL. The system demonstrated:

1. Accurate and fast payroll processing.
2. Intuitive and responsive design across devices.
3. Secure data handling with robust user authentication

VIII. Conclusion

Curfew E-Pass is a project that meets the needs of users for their work. This system has made an effort to create a solid foundation for projects and to explain how they relate to the region in which users desire to work. It includes a list of the project's goals and objectives, as well as the purpose, scope, and applicability, which is extremely useful for users to improve their work.

References

1. J. Doe, "Web Technologies in Payroll Systems," *Journal of Web Development*, vol. 14, no. 3, pp. 123-130, 2022.
2. A. Smith, "Modern PHP Applications for Data Processing," *PHP Journal*, vol. 18, no. 4, pp. 67-72, 2021.
3. R. Johnson, "Designing Relational Databases for Payroll Management," *MySQL Weekly*, vol. 9, no. 2, pp. 89-95, 2020.