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Centralized Driving School Monitoring System

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Abstract: The driving school monitoring system developed in this project provides an efficient and effective solution to address the challenges faced by the Regional Transport Office (RTO) in monitoring driving schools and learners. The system includes features such as biometric-based attendance, live location tracking of learners' vehicles, a report submission portal for giving daily reports and feedback from instructors, digital payment system, and monitoring of learners' data directly by the RTO. The objectives of the system are to provide accurate attendance tracking, live location tracking of learners' vehicles, a report submission portal, digital payment system, and learner's data monitoring by the RTO. These objectives aim to improve the quality of training provided to learners and ensure effective monitoring of driving schools by the RTO. The website-based system is designed to provide timely and accurate monitoring of driving schools and to ensure quality education and training for learners.[3].

Keywords: RTO, LL, DLL, Vehicle, Motor

I. INTRODUCTION

The Driving School Management System aims to provide a comprehensive solution for the management of driving schools. The project will provide an online platform for the management of driving school related activities such as managing students, instructors, courses, and payments. It will provide an easy-to-use interface for the management of driving school activities, which will help in reducing the time and effort required to manage driving schools.

II. LITERATURE REVIEW

Centralized driving centre monitoring systems have become a necessity for regional transport offices (RTOs) in many cities. These systems are designed to monitor driving schools and learners more effectively, providing accurate attendance tracking, live location tracking of learners' vehicles, a report submission portal for giving student's daily report and feedback from instructors, digital payment system, and learner's data monitoring by the RTO. The development of centralized driving center monitoring systems has addressed the challenges faced by RTOs in monitoring driving schools and learners. The system provides accurate attendance tracking, live location tracking of learners' vehicles, report submission portal, and digital payment system, making it an efficient and effective solution. The system also enables RTOs to monitor learners' data directly, and attendance data is stored in the central government's database, which can ensure transparency in the monitoring process. The process of learning to drive can be a daunting task, and it's important for learners to receive quality education and training [3]. However, the monitoring of driving schools can be challenging task for RTOs. To address this issue, centralized driving center monitoring systems have been developed that enable RTOs to monitor driving schools and learners more effectively. With the help of centralized driving centre monitoring systems, RTOs can monitor the performance of driving schools, ensuring that they are providing quality training to learners. This can lead to safer roads, as well-trained drivers are less likely to be involved in accidents. Similar to online food ordering, the growth of technology has played a significant role in the development of centralized driving center monitoring systems. The use of biometric-based attendance systems, live location tracking of learners' vehicles, and digital payment systems has made it easier for RTOs to monitor driving schools and learners.[4]

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These centralized driving center monitoring systems have been implemented in many cities in India, with some states making it mandatory for driving schools to use them. This has helped to improve the overall quality of training provided to learners, making them safer and more responsible drivers.

2.1 Objectives

- To provide an easy-to-use interface for managing driving school activities.
- To reduce the time and effort required to manage driving schools.
- To provide a comprehensive solution for managing students, instructors, courses, and payments.
- To provide an online platform for students to register for courses, view their progress, and make payments online.
- To provide a feedback module for students to provide feedback on the courses and instructors.
- To improve the quality of training provided to students in driving schools

III. PROPOSED SYSTEM

To improve the management of driving schools, a Centralized Driving School Monitoring System is proposed. This system aims to provide a centralized platform for driving schools to manage their operations and students in an efficient and effective manner. The system will be developed using modern technologies, such as web and mobile applications, to provide easy access and usability to all stakeholders.

The system will include features such as student registration, scheduling of driving

lessons, instructor management, vehicle management, and payment processing. These features will help driving schools to streamline their operations and provide better services to their students.

The proposed system will also include a monitoring module that will enable centralized monitoring of driving schools' performance, including student progress, instructor effectiveness, and overall compliance with government regulations. This module will help driving schools to identify areas of improvement and take necessary steps to enhance their services.

The Driving school Module:

- Student Registration: All the student personal information is stored into the Registration files. ile.
- School Monitoring : The purpose is in authority for view and manipulation also he can assign training and the sessions to the students.
- **RTO** Control: This utility is responsible for organizing or View Driving School Record and track the record of the school.

Need of Proposed System:

The driving school industry is growing rapidly, and the need for a centralized system to manage its operations is becoming increasingly important. The Centralized Driving School Monitoring System will provide a platform for driving schools to manage their operations effectively and efficiently, resulting in better services for their students.

The system will also help to address the issue of unlicensed and unregulated driving schools, which pose a risk to public safety. By monitoring and regulating driving schools' operations, the proposed system will ensure that only licensed and reputable driving schools operate in the market.

Furthermore, the system will help government authorities to monitor and regulate the driving school industry effectively. It will provide them with real-time data and insights into the industry's operations, enabling them to take necessary actions to improve road safety and reduce accidents.

Overall, the proposed Centralized Driving School Monitoring System will bring significant benefits to the driving school industry, its stakeholders, and the general public by improving the quality of driving education and ensuring road safety.

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System Architecture Diagram:



DASHBOARD MODULE:









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Technology Description:

PHP:

- PHP is a popular general-purpose scripting language that is especially suited to web development. It was originally created by Rasmus Lerdorf in 1994.
- The PHP reference implementation is now produced by The PHP Group. PHP originally stood for Personal Home Page, but it now stands for the recursive initials PHP: Hypertext Preprocessor.
- PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code which may be any type of data, such as generated HTML or binary image data would form the whole or part of a HTTP response.
- Various web template systems, web content management systems, and web frameworks exist which can be employed to orchestrate or facilitate the generation of that response.
- PHP can be used for many programming tasks outside of the web context, such as standalone graphical applications and robotic drone control.
- Arbitrary PHP code can also be interpreted and executed via command line interface (CLI).[1]

MySQL:

MySQL is written in C and C++. Its SQL parser is written in yacc, but it uses a home- brewed lexical analyzer. The MySQL server software itself and the client libraries use dual-licensing distribution. They are offered under GPL version 2, or a proprietary license. [2]

Xampp:

XAMPP is an open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, Maria DB database, and interpreters for scripts written in the PHP and Perl programming languages.[1]

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IV. CONCLUSION

The Centralized Driving Center Monitoring System has been successfully developed and implemented to enhance the safety and security of drivers and passengers by monitoring their driving behavior in real-time. The system provides valuable insights into driver behavior, such as speed, acceleration, braking, and location. This information can be used to promote safe driving practices and improve road safety. The system is easy to use, efficient, and cost-effective, making it an ideal solution for commercial fleet management.

V. FUTURE SCOPE

In the future, the scope of the Centralized Driving Center Monitoring System can be expanded to include additional features and functionality. For instance, the system can be integrated with a telematics system to collect more data about the vehicle, such as engine performance, fuel consumption, and maintenance needs. Additionally, the system can be enhanced with machine learning algorithms to analyze the data and identify patterns and anomalies that may indicate unsafe driving behavior.

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