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Advanced Management System for Car Driving Schools

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Abstract: A driving school management system can significantly reduce the workload and ensure the effective use of driving school knowledge resources. Driving instructors have to deal with several learner drivers at the same time. This prevents communication with the learner drivers about their driving lesson schedule or exams. This is an online application for car and scooter driving school registration. This app automates manual tasks by managing all records related to student access, attendance, vehicles, and instructors. It keeps track of all student drivers.
The system administrator controls all system modules. The staff of this driving school has to take care of several students at the same time. This leads to problems in communicating with the students about the driving school schedule or the exam. In this there are more driving students than driving instructors. Each learner driver and driving instructor is given a unique username and password. They can log in to the driving school administration system with this ID and password.
After logging in, they will see the basic training syllabus available in the portal. Students are also divided into two groups: Resident students and Distance learners. There is also a local tutor and a distance teacher. Local students can register and select a package and time slot, distance students can search for a distance teacher in their area and book a session with an available distance teacher. The location provides a geolocation-based API that allows you to see the current location of the teacher.
Index Terms: Application Programming Interface, Admin, Map View, Location, Driving School Keyword.

I. INTRODUCTION

In today's world, driving a car has become not a luxury but one of the most important human needs. For this reason, driving schools have sprung up across the country to train professional and non-professional drivers to meet the ever-growing demand for drivers. While there is such a demand, observation has shown that most of these schools do not have proper systems in place to manage these types of driving schools as most of these schools usually use manual systems that have several problems unlike today's world needs well-managed computers systems to help in such environments. The Car Driving School Management System is designed to replace such a computer system in order to create a more controlled and efficient environment that meets the needs of today's services.

With this identifier and password, they can log into the driving school management system. After logging in, they will see the basic training tutorials accessible on the portal. Learner drivers are also divided into two types: local learner drivers and long-distance learner drivers.

There is also a local tutor and a long-distance tutor. Local students can log in and select the package and time, while distance students can search for the nearest distance tutor and schedule a session with an available distance tutor. The location provides a geographic location API to view the current location.

II. RELATED WORKS

A. Driving School Management Software

Look into existing driving school management software solutions that cater to various administrative tasks such as scheduling, student progress tracking, instructor management, and payment processing. Some popular examples include "Driving School Software" by Teachworks, "Driving School Manager" by Splaysoft, and "SmartDriving" by Eworks Manager.

B. Telematics and Driving Analytics

Explore telematics systems that gather data from vehicles, such as driving behavior, vehicle performance, and real-time location tracking. Integrating telematics with your management system can provide valuable insights into student driving habits and help improve training programs.

C. Safety Technologies and Driver Assistance Systems

Investigate the latest safety technologies and driver assistance systems (e.g., adaptive cruise control, lane-keeping assist) and how they could be incorporated into training programs to educate learners about modern vehicle features.

III. PROPOSED SYSTEM MODELS

This paper proposed a driving school management system to automate the processes of daily transactions in driving schools. The system allows the driving school to manage information about students signing up for a driving lesson, the student's schedule, and all the way to the student's payment transactions. The system enables the electronic recording and keeping of records about the learner drivers enrolled in a particular driving school. The proposed system is efficient and reliable in use by driving schools.

A. Admin Module

The administrator manages and oversees various aspects of the site's operation, maintenance, and performance. Creates the profiles and adds the tutor, controls the payment and booking confirmation, and adds the packages and session times for the tutor. They maintain the database for student and tutor registration.

Administrator can:
- Manage student information – (CRUD) create, update and student driver information.
- Manage driving instructor information – (CRUD) create, update and delete driving instructor information and profiles.
- Manage schedule information – (CRUD) create, update, and delete schedule information.
- Enrollment record management – assigning students to a specific schedule and instructor
- Manage payment records – accepts payments from students.

B. Tutor Module

The tutor is involved in checking the session to get the local and remote booking details, see the remote booking details, and teach the students in their place. New tutors can register and receive confirmation from the administrator.

Driving instructors can:
- View enrolled students – Master list of students
- Send students grades or progress reports

C. Student Module

Students will be involved in the registration and login and also perform the payment procedures and selection of local booking option and remote booking option, selecting the geolocation and area and choosing the location by longitude and latitude. The students will pay for the given packages, then the tutor will check the location and they will be ready to reach the students' location.

Students can:
- Update personal profile
- Select a schedule for enrolment
- View payment history and records
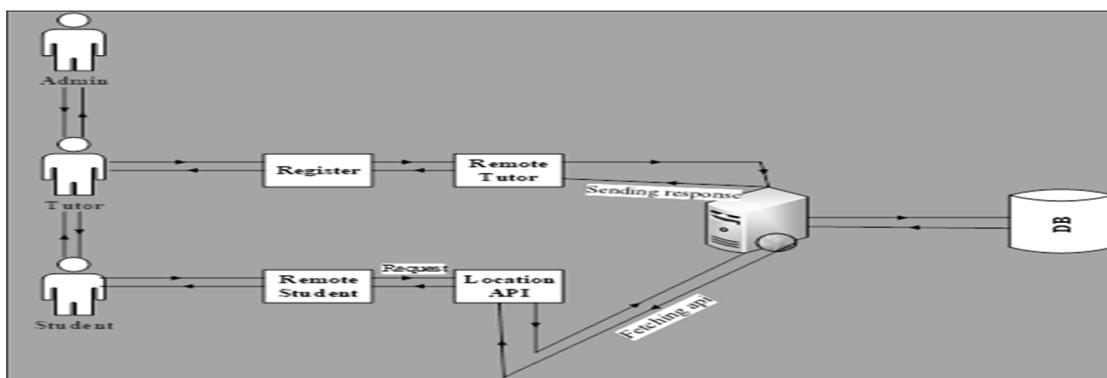- View the progress report

Figure 1-Architecture Diagram

IV. RESULTS

A. Payment Gateway
The payment module allows the administrator to enter the information about the student's payment for his driving lesson.

B. Map View
It will show the location of the student who want to learn driving from their home

Figure 2-sample output

V. CONCLUSION

In conclusion, the Driving School Management System project successfully met the need for an efficient and organized system for managing various aspects of a driving school. With this project, we aimed to develop a user-friendly and comprehensive solution that would streamline administrative tasks, improve student driver management, and increase overall operational efficiency. During the development of this project, we faced several challenges, such as integrating third-party APIs to query locations and coordinating with various stakeholders involved in the driving school ecosystem.

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