**MINI PROJECT-2**

**(2021-22)**

**Vehicle Driving School Management System**

**PROJECT SYNOPSIS**

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**Submitted By: Supervised By:**

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**DECLARATION**

I hereby declare that the work which is being presented in the Mini Project “Vehicle Driving School Management System”, in partial fulfillment of the requirements for Mini-project 2 is an authentic record of my own work carried under the supervision of Mr. Akash Choudhary.

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**INTRODUCTION**

In today’s world Vehicle driving has become one of the most important human need rather than a luxury. With such kind of thinking driving schools have emerged all over the country to train professional and non-professional drivers to meet the ever growing demand for more drivers. While there exists such kind of demand and observation has shown that most of these schools don’t have proper systems in place to manage such kind of training schools as most of these schools usually use manual systems which have several problems as opposed to today’s world which needs well managed Computer Management systems to help in such environments. As such, “THE VEHICLE DRIVING SCHOOL MANAGEMENT SYSTEM”, the system is to be developed to replace such computer system in order to provide a better controlled and efficient environment which will meet the needs of the day’s services.

**System Requirements -**

Front End - HTML, CSS, React and JavaScript.

Back End - Node.js, MongoDB (as database).

Operating System - Mac/Linux/Windows-7/8/10

**Software Required: -**

* Visual Studio Code

**Hardware Requirements -**

**For VS Code -**

Intel i3 6th Gen or more.

4 GB of RAM or more.

2GB GPU or more.

30 GB Hard Disk or more.

Internet Connection

**Frontend and Backend**: -

**Frontend**

Visual Studio Code combines the simplicity of a source code editor with powerful developer tooling, like IntelliSense code completion and debugging.

First and foremost, it is an editor that gets out of your way. The delightfully frictionless edit-build-debug cycle means less time fiddling with your environment, and more time executing on your ideas

VS Code includes enriched built-in support for Node.js development with JavaScript and TypeScript, powered by the same underlying technologies that drive Visual Studio. VS Code also includes great tooling for web technologies such as JSX/React, HTML, CSS, SCSS, Less, and JSON.

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**Backend**

MongoDB is a document-based data store which means that it stores the information in rather an unstructured format as compared to structured tables like in MySQL or PostgreSQL. This essentially means that the data stored in MongoDB is “schema-less”. Therefore, MongoDB provides a fast and scalable data storage service which makes it a popular choice in the performance-critical application.

Advantages include -

Clustering: MongoDB allows sharding of data across the nodes in a cluster so as to ensure that there is no single-point-of-failure in the database server.

Support for Secondary Indices: MongoDB allows for not just a primary index but also for a secondary index which is important in many applications.

Caching: MongoDB caches a lot of data so as to allow faster retrieval of the query results.

Great feature set: There are various features on MongoDB (Ad-hoc queries, Indexing, Replication, Load balancing, File storage, Aggregation, Server-side JavaScript execution, capped collections, etc.) that make it a very user-friendly database.

**Idea: -**

1. Driving School Monitoring System contains numerous features that can help driving schools run their business more efficiently.

2. One great advantage this software offers is its scalability and flexibility for data management using this software admin will be able to manage the most important aspects of business.

**Objective: -**

* The aim is to automate the manual procedure of applying for admission in motor driving schools.
* Students can book their time slots according to their wish.
* It can provide secure payments.
* Tutors can directly get students address and slots that becomes convenient for them to visit the student directly.
* The aim is to ensure system is convenient and flexible to be used.
* To save their time, efforts, money and resources.

**Module Description –**

Vehicle Driving management school will contain following modules **:**

* Admin Module
* Candidate Module
* License Module
* Payment Module
* Driver/Tutor Module

**Description of modules -**

1. Admin Module **-**

The module enables the admin people to create and modify the login id and password! This login creation is useful to access candidate& Driver & payment and expense details, when authorized person gives valid login id and password & he can access those details.

2. Candidate Module **-**

In the candidate module & the admin people can enter the new candidate details (name of the candidate, address, contact number, mail id, date of birth, gender, and date of joining ). Here the candidates details are stored by the category wise, And all authorized people can view the candidate details also.

3. License Module **-**

This module stores the license candidate details! Admin people can update license details of students. It also maintains received license list, applied license list and issued license list. It will be helpful to view whose license is applied and issued.

4. Payment Module **-**

This module maintains payment details of all students. Using this module, admin people can view payment details in daily basis or on monthly basis. They can also modify these details.

4. Driver/Tutor Module **-**

This module has the Driver details such as driver id, name, address, contact details, Department, qualification, salary, license no. and etc. Admin people can add, update and remove the driver details.

**Scope: -**

The scope of project is quite wide.

Further addition can be possible according to the requirement and this portal is very useful to maintain day to day record of candidates, tutors or driver and all the payments.

**AVAILABILITY**: -

This website can be available for everyone on internet.

**Bibliography –**

Book References **–**

1. Learning Web Designing by Jennifer Niederst Robbins.

2. Node.Js, Mongodb, React, React Native Full-Stack Fundamentals and Beyond by Eric Bush

Web References –

1. [www.w3resources.com](http://www.w3resources.com)

2. [www.tutorialspoint.com](http://www.tutorialspoint.com)