CAR DRIVING SCHOOL MANAGEMENT SYSTEM

A PROJECT REPORT

SUBMITTED BY

AISWARYA CHANDRAN

to

the APJ Abdul Kalam Technological University
in partial fulfilment of the requirements for the award of the degree

of

Master of Computer Applications



Department of Computer Applications

College of Engineering

Trivandrum-695106

DECLARATION

We undersigned hereby declare that the project report titled "Car driving school management system" submitted for partial fulfilment of the requirements for the award of degree of Master of Computer Applications of the APJ Abdul Kalam Technological University, Kerala is a bonafide work done by me under supervision of Smt. Sreerekha V K Asst. Professor. This submission represents our ideas in our words and where ideas or words of others have been included. we have adequately and accurately cited and referenced the original sources. we also declare that we have adhered to ethics of academic honesty and integrity as directed in the ethics policy of the college and have not misrepresented or fabricated any data or idea or fact or source in our submission. We understand that any violation of the above will be a cause for disciplinary action by the Institute and/or University and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been obtained. This report has not been previously formed the basis for the award of any degree, diploma or similar title.

Place: Trivandrum AISWARYA CAHNDRAN

Date:06/03/2022

DEPARTMENT OF COMPUTER APPLICATIONS COLLEGE OF ENGINEERING TRIVANDRUM



CERTIFICATE

This is to certify that the report entitled **Car driving school** management system submitted by **Aiswarya Chandran** (TVE20MCA2004) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications is a bonafide record of the project work carried out by him under my guidance and supervision. This report in any form has not been submitted to any University or Institute for any purpose.

Prof. Deepa S.S Prof. Sreerekha V.K

Head of Dept Internal Supervisor

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First and for most I thank **GOD** almighty and to my parents for the success of this project. I owe a sincere gratitude and heart full thanks to everyone who shared their precious time and knowledge for the successful completion of my project.

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AISWARYA CHANDRAN

ABSTRACT

Car driving school management system manages practically all of the duties that driving schools perform on a regular basis. Physical books are still used by the majority of driving schools across the world to plan classes and retain data. This method is antiquated, unreliable, difficult to access, and occasionally inaccurate. This will provide drawback in terms of communicating with students for his or her driving category schedule or test.

It is a web-based application for maintaining records of car training school. In this project, we use PHP and MySQL database. It has three modules, admin, trainer and user. User module contains check packages select new payment, training packages, enquiry, packages, apply communication, check test updates. By using this student can contact, register and select the package and timing, and, see the details of driving school and can put any enquiries and can check nearby remote trainer. Admin is having control over all modules of the system. Admin can see all details including total number of students, can manage packages, can view the details of the students wants to take training and also update the history of payments. Also admin can read enquiries. Admin can manage about us and contact as pages. By using this system can reduce the efforts of human power and wealth very much, and ensure driving school's information resource to be utilized effectively.

INTRODUCTION

In today's world, 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 nonprofessional drivers to meet the ever growing demand for more drivers.

While there exists such kind of demand, 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 systems to help in such environments.

As such, The "CAR DRIVING SCHOOL MANAGEMENT SYSTEM " system is such a COMPUTER system in order to provide a better controlled and efficient environment which will meet the needs of the day's services.

This project has three modules:

Admin Module

Packages: In this section, admin can add packages

Package request: In this section, admin can view the detail of the user who wants to take training

Payment: update the history of payments.

Registered Users: In this section, admin can view registered users.

Communication: In this section, admin can read message and can give reply to message.

Add govt form: Admin can apply for driving license

Update govt form: Admin can update license registration and send to govt portal

Authorisation: Admin can authorise requested users

User Module

Check packages: In this section, user can view packages.

Select packages: user can select their needed package.

Communication: user can communicate with admin.

Add govt form: user can apply for license registration

Payment info: user can done payment and view payment status

Apply training practice: user can apply for training practice.

Trainer module

Allotted students: in this section trainer can view allotted students.

View packages: Trainer can view available packages.

Communication: in this section trainer can communicate with the admin

PROBLEM DEFINITION AND MOTIVATION

Physical books are still used by the majority of driving schools across the world to plan classes and retain data. They communicate each other directly or over phone. The motor driving trainers has to handle several students at a time. This will provide drawback in terms of communicating with students for their class schedule. Tracking progress of student takes times if staff handling many student at a time. The manual method is ineffective and chances to human errors such as losing records of the students. There is a possibility to misunderstanding about their payment transactions. In this project we use PHP and MySQL databases.

By using this online platform driving schools can automate all processes and task done for their daily transactions. The system will let driving schools electronically schedule classes and keep records of the students who avail for driving lessons.

LITERATURE REVIEW

With the rapid development of informational construction, higher request is needed by the management of drive-training enterprise. Driving-training school's effective management can reduce the waste of human power and wealth very much, and ensure driving-training school's information resource to be utilized effectively. As the share of human power and information becomes deeper and weeper, the management and share of driving-training school's manager, vehicle and student become more and more important. Present management method' key issues exist as follows. Enrollment, health examination and graduation information of drive-training school students are operated artificially, which is not only with low efficiency but also make mistakes often with many students, vehicle and coaches, distribute of student to coach and coach to vehicle is made artificially. In this way, resource can't be assigned reasonably and used effectively, which are clumsy human usage, unclear of administration responsibility and so on. . Driving-training school's effective management can reduce the waste of human power and wealth very much, and ensure driving-training school's information resource to be utilized effectively. As the share of human power and information becomes deeper and weeper, the management and share of driving-training school's manager vehicle and student become more and more important. Present management method' key issues exist as follows. Enrollment, health examination and graduation information of drive-training school students are operated artificially, which is not only with low efficiency but also make mistakes often with many students, vehicle and coaches, distribute of student to coach and coach to vehicle is made artificially. In this way, resource can't be assigned reasonably and used effectively, which are clumsy human usage, unclear of administration responsibility and so on.

REQUIREMENT ANALYSIS

Overall Description

Software requirements

• Operating system: Windows

• Back end : PHP, MySQL

• Technologies used: javascript, AJAX

• Designer tool:HTML

• Server :Apache 2.1

Hardware requirements

• Processor: Intel Core(TM) i3-7020U CPU @2.30GHz 2.30

• Hard disk : 40 GB

• Memory: 4 GB RAM

Technologies Used

PHP

PHP (Hypertext Preprocessor) is known as a **general-purpose** scripting language that can be used to develop dynamic and interactive websites. It was among the first server-side languages that could be embedded into HTML, making it easier to add functionality to web pages without needing to call external files for data.

HTML

HTML is a markup language that defines the structure of your content. HTML consists of a series of elements, which you use to enclose, or wrap, different parts of the content to make it appear a certain way, or act a certain way. The enclosing tags can make a word or image hyperlink to somewhere else, can italicize words, can make the font bigger or smaller, and so on.

JAVASCRIPT

JavaScript is a text-based programming language used both on the client-side and server-side that allows you to make web pages interactive. Where HTML and CSS are languages that give structure and style to web pages, JavaScript gives web pages interactive elements that engage a user

CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.CSS is designed to enable the separation of presentation and content, including layout, colors and fonts. This separation can improve content accessibility; provide more flexibility and control in the specification of presentation characteristics; enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, which reduces complexity and repetition in the structural content; and enable the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.

MySQL

MySQL is an open-source relational database management system. MySQL works with an operating system to implement a relational database in a computer's storage system, manages users, allows for network access and facilitates testing database integrity and creation of backups.

Functional Requirements

The system's intended behaviour is represented by functional requirements. This behaviour might be defined as services, tasks, or functions that must be completed by the given system. For this project, the following functional needs have been determined.

Non Functional Requirements

Non-functional requirements determine the software product's overall quality. In effect, a non-functional demand is a limitation imposed on the system or development process. They're commonly included in product descriptions alongside terms like maintainability, usability, and portability. It mostly restricts the problem's remedies. The solution must be adequate to satisfy the non-functional criteria.

SYSTEM DESIGN

5.1 INPUT DESIGN

Input design is the process of connecting the user-originated inputs into a computer to used format. The goal of the input design is to make the data entry logical & free from errors. Errors in the input database controlled by input design.

The goal of designing input data is to make data entry as easy, logical and error free from errors as possible. In entering data, operators need to know the following:

Admin Module, Candidate Module and trainer module.

5.2 OUTPUT DESIGN

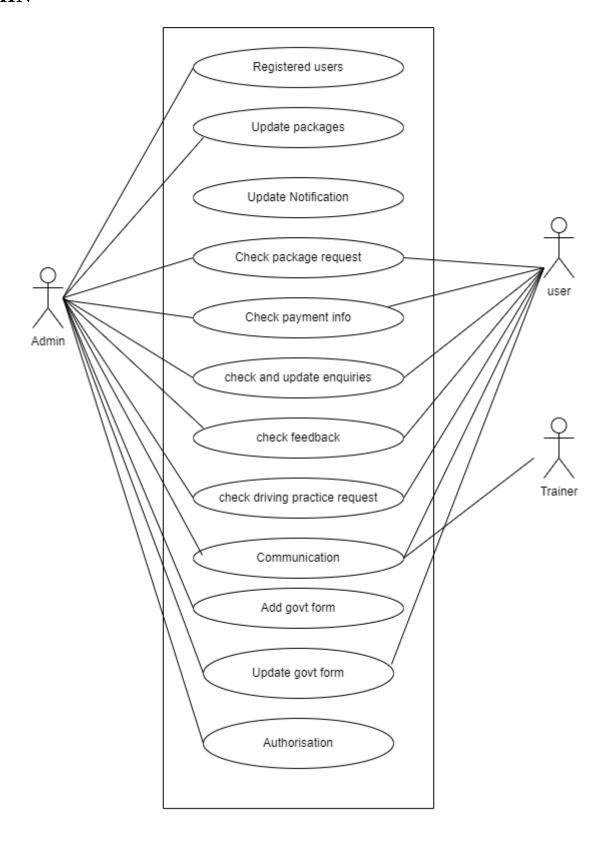
The output from the system is either by screen or by hard copies. Output design aims at communicating the results of the processing of the users. The reports are generated to suit the needs of the users. The reports have to be generated with appropriate levels. Presenting the data processed by a computer-based COMPUTER system in an attractive and usable form has become very essential these days' success and acceptance of a system to some extent depends on good presentation. Therefore, system analyst must know fully how to design output report in an attractive way

5.3 DATABASE DESIGN

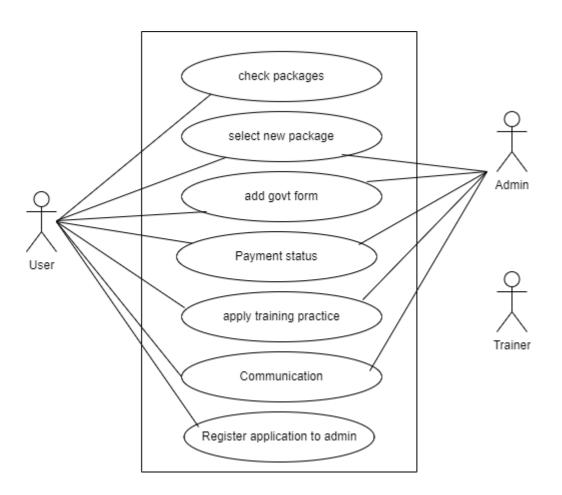
The database design involves creation of tables. Tables are represented in physical database as stored files. They have their own independent existence. A table consists of rows and columns. Each column corresponds to a piece of information, specific to a particular item. This activity deals with the design of the physical database. A key is to determine how the access paths art to be implemented.

USE CASE DIAGRAM

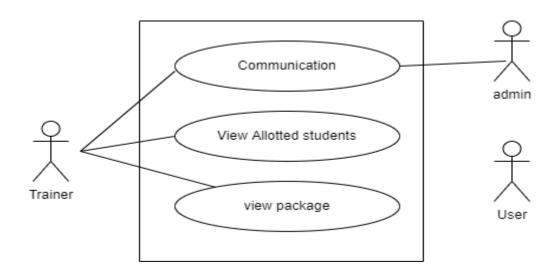
ADMIN



USER

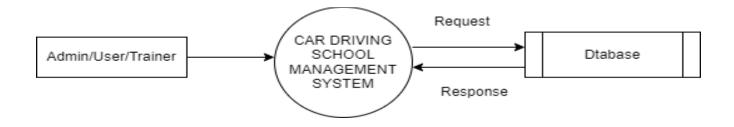


TRAINER

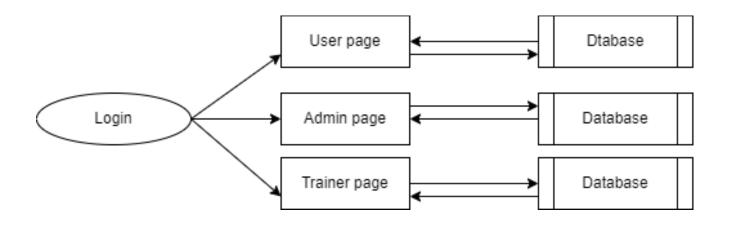


DATA FLOW DIAGRAM

Level 0

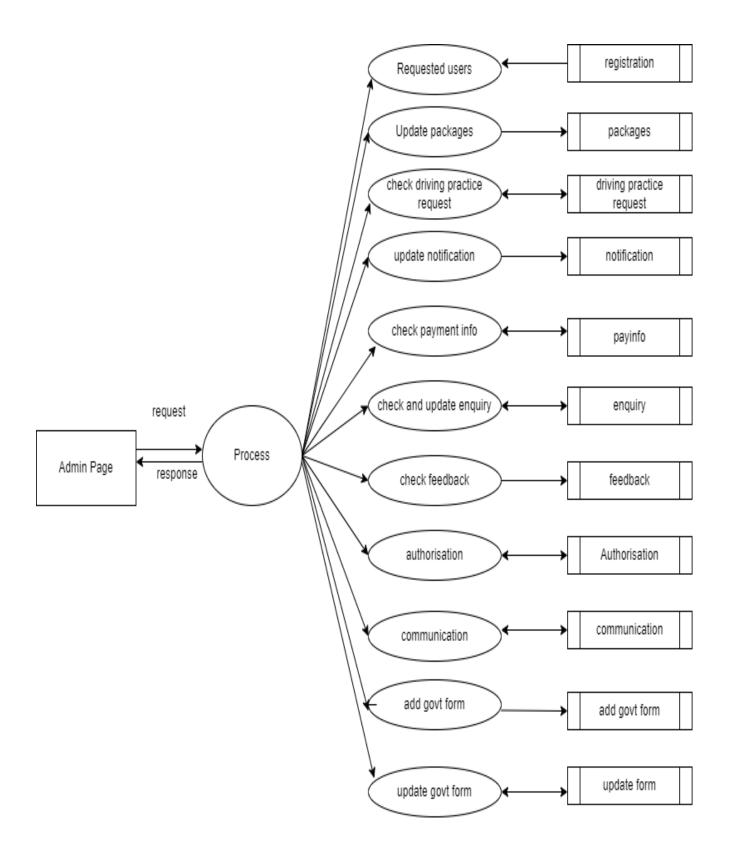


Level 1

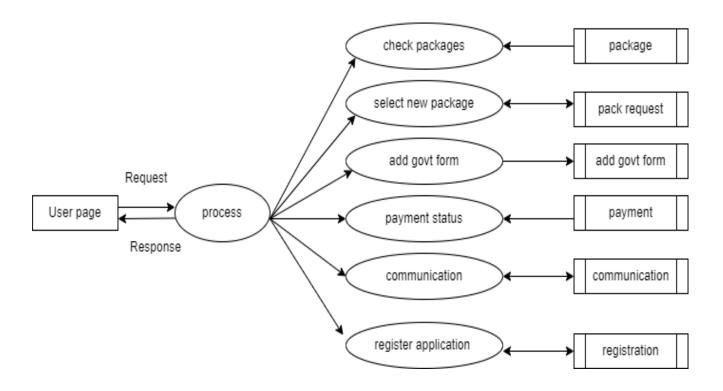


Level 2

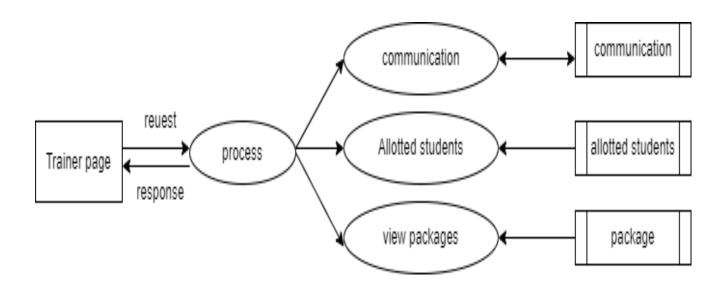
Admin



User



Trainer



Database design

Login

Field name	type	size	constraints
id	int	10	Primary key
Username	varchar	20	Not null
Password	Varchar	20	Not null
usertype	varchar	20	Not null

Notification

Field name	type	size	constraints
Nid	Int	10	Primary key
Туре	varchar	50	Not null
Title	Varchar	100	Not null
subject	varchar	500	Not null

Driving Practice Request

Field name	type	size	constraints
Dprid	Int	10	Primary key
Userid	Int	10	Foreign key
Request	varcahr	500	Not null
Dateofrequest	date	20	Not null
Timeneeded	varcahr	100	Not null

adminupdate	varcahr	100	Not null

Communication

Field name	type	size	constraints
cid	Int	10	Primary key
Userid	Int	10	Foreign key
Username	Varchar	20	Not null
Receiver	Varchar	20	Not null
Subject	Varchar	100	Not null
Message	Varchar	500	Not null
Date	Date	20	Not null
Admin update	Varchar	500	Not null
Update date	date	20	Not null

Registration

Field name	type	size	constraints
Reg id	Int	10	Primary key
Name	Varchar	20	Not null
Dob	Date	20	Not null
Sex	Varchar	10	Not null

Blood	Varchar	10	Not null
gardianname	Varchar	50	Not null
Email	Varchar	100	Not null
Phoneno	Varchar	12	Not null
Username	Varchar	15	Not null
Password	Varchar	15	Not null
Adharno	Varchar	12	Not null
Usertype	Varchar	15	Not null
address	varchar	100	Not null

Allotted students

Field name	type	size	constraints
Id	int	10	Primary key
Userid	int	10	Foreign key
Username	varchar	20	Not null
Pid	Int	10	Foreign key
Package name	varchar	100	Not null

IMPLEMENTATION

The implementation phase is less creative than system design. A system project may be dropped at any time prior to implementation, although it becomes more difficult when it goes to the design phase.

The final report to the implementation phase includes procedural flowcharts, record layouts, report layouts, and a workable plan for implementing the candidate system design into an operational one. Conversion is one aspect of implementation. Several procedures of documents are unique to the conversion phase. They include the following,

The conversion portion of the implementation plan is finalized and approved.

- > Files are converted.
- ➤ Parallel processing between the existing and the new system are logged on a special form.
- Assuming no problems, parallel processing is discontinued. Implementation results are documented for reference.
- ➤ Conversion is completed. Plans for the post-implementation review are prepared. Following the review, the new system is officially operational.

TESTING

8.1 SYSTEM TESTING

System testing is process of exercising software with the intent of finding and ultimately correcting errors.

System testing is actually a series of different tests whose primary purpose is to fully exercise the computer based system. System testing is the state of implementation that is aimed at assuring that the system works accurately and efficiently. Testing is the vital to the success of the system. System testing makes the logical assumption that if all the parts of the system are correct, the goal will be successfully achieved.

The objective of testing is as follows:

- > Testing is the process of executing a program with the intent of finding an error
- A successful test is that one of the cover of undiscovered error

TESTING ISSUSE:

- > Client GUI considerations.
- > Target environment and platform diversity considerations

TESTING METHODOLOGIES:

System testing is the state of implementation, which is aimed at ensuring that the system works accurately and efficiently as expect before live operation commences. It certifies that the whole set of programs hang together. System testing requires a test plan that consists of several key activities and steps for run program, string, system and user acceptance testing. The implementation of newly designed package is important in adopting a successful new system.

Testing is an important stage in software development. The system test is implementation stage in software development. The system test in implementation should be confirmation that all is correct and an opportunity to show the users that the system works as expected. It accounts the largest percentage of technical effort in the software development process.

Testing phase in the development cycle validates the code against the functional specification. Testing is vital to the achievement of the system goals. The objective of testing is to discover errors. To fulfill this objective a series of test step unit, integration, validations and system tests were planned and expected. The test steps are,

(i) UNIT TESTING:

Unit testing focuses verification effort on the smallest unit of software each of the modules was verified individually for errors. This is known as module testing. The testing was carried out during programming stage itself, sample data is given for unit testing. The unit results are recorded for further reference

(ii) INTEGRATION TESTING:

Software validation is achieved through a series of tests that demonstrates conformity with requirements. Thus the proposed system under consideration has been tested by validation and found to be working satisfactorily.

(iii) SYSTEM TESTING:

This is to verify that all the system elements have been properly integrated and perform allocated functions. Testing executes a program to test the logic changes made in it and with intention of finding errors. Tests are also conducted to find discrepancies between system and its original objective, current specification and documents.

5.2 SYSTEM IMPLEMENTATION

Implementation is the stage in the project where the theoretical design is turned into a working system. The most crucial stage is achieving a successful new system & giving the user confidence in that the new system will work efficiently & effectively in the implementation state.

The stage consists of

- > Testing the developed program with simple data
- > Detection's and correction of error
- > Creating whether the system meets user requirements
- > Testing whether the system
- ➤ Making necessary changes as desired by the user

RESULTS AND DISCUSSION

The developed Car driving school management system will provide an effective way of managing the different records in a driving school. The system will eliminate all the problems encountered in the manual method which will help the school better improve their daily operations. By implementing the system, the school can render an improved service and satisfying experience to their students and trainer

ADVANTAGES

- ▶ The system automates the manual procedure of applying for admission in training schools.
- It notifies the students about next session via alert so need of manually informing them.
- ▶ It provides secure payments.
- ▶ This system allow communication
- ▶ Using this system user can apply for driving license rgistration

LIMITATIONS

▶ It requires an active internet connection.

CONCLUSION AND FUTURE SCOPE

With the aid of PHP and MySQL person can manage practically all of the duties that driving schools perform on a regular basis in this project. The correctness of this planned work is guaranteed to be 99 percent.

10.1 FUTURE SCOPE

By using this system we can automates the manual procedure of applying for admission in training schools. It notifies the students about next session via alert so no need of manually informing them. System provides secure payments for students. Using this software admin will be able to manage the most important aspects of business using single software.

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- www.php.net/manual/en/tutorial.php
- **❖** <u>www.tutorialspoint.com</u>

APPENDIX

11.1 SOURCE CODE

```
<!doctype html>
<a href="html><!-- InstanceBegin template="/Templates/index.dwt"
codeOutsideHTMLIsLocked="false" -->
<head>
<meta charset="utf-8">
<!-- InstanceBeginEditable name="doctitle" -->
<title>Untitled Document</title>
<!-- InstanceEndEditable -->
<!-- InstanceBeginEditable name="head" -->
<!-- InstanceEndEditable -->
</head>
<body>
```

```
<td height="115" align="left" valign="top"
bgcolor=#000000><img src="image/logo.png" width="600"
height="100" alt=""/><img src="image/car.png" width="214"
height="164" alt=""/>
   <fort color="#FFD05B"> <h4>Contact</h4>
 2321 king street,
       Trivandrum, Kerala. 
>phone Number: +2321 256 651
      Email address :- dsmdrive@gmail.com</font>
    <tbody>
   <a
href="home.php">Home
    <a
href="packageinfo.php">Package Info
    <a href="about.php">About
As 
    <a
href="feedback.php">Feedback
```

```
<a
href="contact.php">Contact Us
    <a
href="register.php">Register
    <a
href="login.php">Login
   <!--
InstanceBeginEditable name="EditRegion1" -->
    <table width="100%" height="438" border="0"
cellpadding="0">
              <br>
<br/><br/><center><h1> Logout Successfully</h1></center>
<br>>
               <!-- InstanceEndEditable -->
```

```
<a href="index.html"><img src="image/car.png"
width="100" height="100"></a><font color="#FFD05B">
      We have successfully transformed 15 00 000+<br> beginners
into skilled and confident drivers. <br/>
<br/>
Perfection comes with seamless
integration < br > of learning and application! < br > Become a confident
driver by getting theoretical <br/> and practical driving
training
      <font color="#FFD05B">
      <h4>Contact</h4>
         2321 king street ,<br>
          Trivandrum, Kerala. 
         Phone number :+2321 256 651
         Email Address :dsmdrive@gmail.com
         Email Address :dsmdrive@gmail.com
                       </font>
```

```
<font color="#FFD05B"><h4>Latest Tweets</h4>
```

Ds which don't look even slightly believable.
 If you are going to use a passage 3 Hours Ago

</body>

<!-- InstanceEnd --></html>

SAMPLE INPUT OUTPUT IMAGES

