“MY DRIVING SCHOOL”

A Project report submitted

In the partial fulfillment the award of degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING (2022-2023)

BY

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ANDHRA PRADESH

(2019-2023)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that the project work entitled **"MY DRIVING SCHOOL"** is a fulfillment of project work done by **PACHA RAJENDRA (Reg.No.211801390016)** ,**M.N.SREERAM SURAZ (Reg.No.211801390014) ,S.M.Jawahar (Reg.No.211801390007**)for the award the degree of **BACHELOR OF TECHNOLOGY** in **COMPUTER SCIENCE AND ENGINEERING, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**, during the academic year **2022-2023**.

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ACKNOWLEDGEMENT

It is with at most pleasure and excitement we submit our project partial fulfillment of the requirement for the award of Bachelor of Technology.

The project is a result to the cumulate efforts, support, guidance, encouragement and inspiration from many of those for whom we have to give our truthful honor and express gratitude through bringing out this project at the outset as per our knowledge.

I convey my special thanks to our project **Guide Mrs. G. Rama Devi(Asst. Professor)** who has guided, encouraged and tremendously supported me to enhance my knowledge with present working of this project to bring out enriching the quality of project.

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At the outset, we thank to **Sri. G.S.N.RAJU**, beloved **Vice Chancellor of Centurion University of Technology and Management** who is the back bone by providing for completion of this project, Thank you sir.

DECLARATION

I hereby declare that the project entitled **"PROJECT TITLE"** submitted to the fulfillment of award the degree of **B.TECH (CSE)** in **CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**, **ANDHRA PRADESH.**

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1. Introduction

1.1 Purpose

The purpose of the driving school management website is to provide a comprehensive platform for driving schools to manage their operations efficiently. The website should include features such as student enrollment, scheduling and tracking of driving lessons, instructor management, payment processing, and reporting. The website should also provide a user-friendly interface for students and instructors to access and manage their accounts, as well as communicate with each other. The ultimate goal of the website is to streamline the driving school's operations and improve the overall learning experience for students.

1.2 Scope

This software system will be an online driving school portal for Learners and trainers. It provides the communication between learners and trainers. More specially to design and develop a easy interface between them. It helps to find their local and as per their required persons. It is most required for the those who are want to learn newly driving. It also helps who are want get income from teaching a driving of different vehicles like two wheeler , four wheeler and heavy vehicles.

1.3 Definitions, Acronyms and Abbreviations

1.3.1 Driving School

Online driving school means it a software meant to help different type of people to find their teachers who are available in their city. Who want to work for their part time job in teach a driving.

1.3.2 Administrator

Course administrator is a user who can control the entire website. He can add and remove them like users , trainers . He can accept and reject their requests.

1.3.3 User

An user means who want learn a driving and want to find a trainer in their nearby location.

1.3.4 Trainer

An trainer means who want to work for part time and teach their skills in driving. First they will trainee job in this portal.

1.4 References

1. IEEE 830 Template
2. Maruthi suziki driving school Online registration portal(Getting Started Guide)
3. Chat Gpt for queries regarding to code.

1.5 Overview

This is a working document and, as such, is subject to change. In its initial form, it is incomplete by definition, and will require continuing refinement. Requirements may be modified and additional requirements may be added as development progresses and the system description becomes more refined. This information will serve as a framework for the current definition and future evolution of the My Driving School Portal.

2. Overall Description

2.1 Product Perspective

My Driving School website meat to provide a communication between newly who want to learn driving and who want to teach driving.

2.1.1 System Interface

Apache will be used as web server. The user inputs data via the web server using HTML forms. The actual program that will perform the operations is written in PHP.

2.1.2 User interface

The new system shall provide a very intuitive and simple interface to the user and the administrator, so that the user can easily navigate through pages.

2.1.3 Hardware Interface

a) Server side

The web application will be hosted on a web server which is listening on the webstandard port, port 80.

b) Client side

Monitor screen – the software shall display information to the user via the monitor screen

Mouse – the software shall interact with the movement of the mouse and the mouse buttons. The mouse shall activate areas for data input, command buttons and select options from menus.

Keyboard – the software shall interact with the keystrokes of the keyboard. The keyboard will input data into the active area of the database.

2.1.4 Software Interface

a) Server side
An Apache web server will accept all requests from the client and forward it accordingly. A database will be hosted centrally using MySQL.

b) Client side
An OS which is capable of running a modern web browser which supports JavaScript and HTML5.

2.1.5 Communication Interfaces

The HTPP or HTTPS protocol(s) will be used to facilitate communication between the client and server.

2.1.6 Memory Constraints

Memory constraints will come into play when the size of MySQL grows to a considerable size.

2.1.7 Operations

The product shall have operations to protect the database from being corrupted or accidentally altered during a system failure.

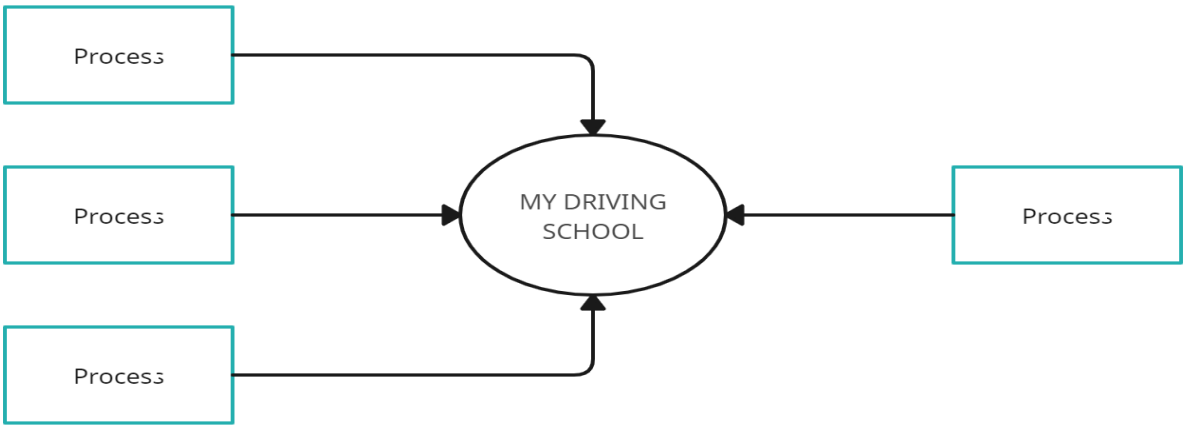
2.1.8 Site Adaption Requirements

Not applicable

2.2 Product functions

2.2.1 Context Diagram

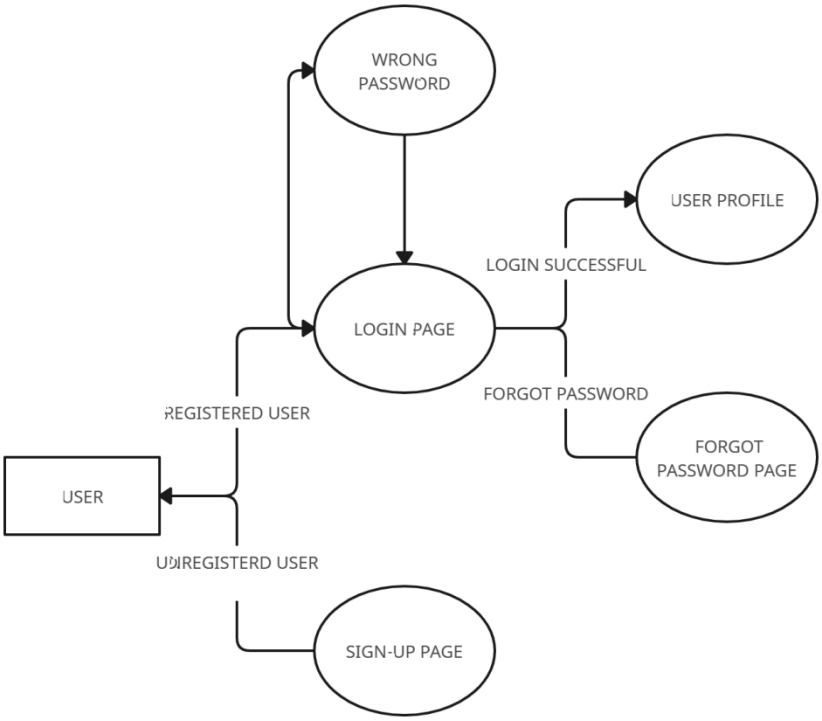
Figure 1: Context Diagram



2.2.2 Use Case Diagrams

2.2.2.1 User Login

Figure 2: User Login



Use case descriptions /Introductions

2.3 User Characteristics

2.3.1 Students

Students are the primary consumers of an academic portal. They are accessing information posted by professors, uploading assignments and project files, and discussing concepts.

2.3.2 Professors

Professors are the primary content administrators of an academic portal. They are uploading files, links, and multimedia, and grading assignments in addition to creating new places for students to discuss and collaborate.

2.3.3 System Administrators

System administrator will

2.4 Constraints

2.4.1 User Interface Constraints

Using this system is fairly simple and intuitive. A user familiar with basic browser

navigation skills should be able to understand all functionality provided by the system.

2.4.2 Hardware Constraints

The system should work on most home desktop and laptop computers which support JavaScript and HTML5.

2.4.3 Software Constraints

The system will be intended to run on Firefox 4 and above, Google Chrome 10 and above and Internet Explorer 8 and above.

2.4.4 Data Management Constraints

System shall be able to interface with other components according to their specifications.

2.4.5 Operational Constraints

The system is limited by its operating server in terms of the maximum number of users it can support at a given time.

2.4.6 Site Adaptation Constraints

The component will be adapted to the overarching system at the conclusion of the system creation.

2.4.7 Design Standards Compliance

The system shall be implemented in PHP.

2.5 Assumptions and dependencies

Most of the training portals have a lot of redundant features which are rarely used inan academic sessions. Our new system focuses on the features which are most important to the users of an training institute along with introduction of some new features which other portals lacks.

2.6 Apportioning of Requirements

Integration of LDAP login might be apportioned to future versions.

1. Specific Requirements

1.1 External interface

1.1.1 Web Server

- Apache will be used as web server:
- The user inputs data via the web server using HTML forms
- The web server executes the PHP as a module and PHP script retrieves the post data if available.
- The web server receives information back from the PHP script.
- The web server displays a HTML page as result to the end-user.

1.1.2 PHP Application

The actual program that will perform the operations is written in PHP. All data will be stored in a database.

1.1.3 MySQL Database

It's an open source SQL database to store all data which communicates with the application on the server.

1.2 Functional Requirements

1.2.1 Use Case Scenario

3.2.1.1 Use Case Scenario 1 – User Login

User Login

Purpose	User logs in to system using existing profile.
User	A user with an existing profile.
Input Data	Profile username and password.
Output Data	Corresponding page data.
Invariants	Profile table data and user information.
Pre-conditions	User is not logged in to a profile, input profile exists in data base, user password matches profile

Post-conditions	User's computer has been supplied with appropriate cookie, page data is appropriate for selected profile
Basic Flow:	Webpage looks up profile data and returns the matching cookie. Webpage is updated to match new user data.
Alternative Flow(s):	Invalid password, invalid username, or mismatched username and password redirect to error message and previous page.
Business Rules:	This allows users to log in to their profile from anywhere.

3.2.1.2 Use Case Scenario 2 – User checking for trainer

A user logs into the system and he will search for the trainer near to their location.

User checking for trainer

Purpose	A user will search for the trainer near to their location.
User	A legitimate user logged into the system
Input Data	He will enter the location deatails
Output Data	If there is any trainers are available it display the trainer details.
Invariants	The location details.
Pre-conditions	User is Logged in; file exists on user's computer.
Post-conditions	The system will check for the trainers in that location.
Basic Flow:	The user login into their account .He will enter the location details and click on the search button. The system will check for the trainer regarding to user requested location. If any trainers are available it display the trainer information.

Figure 10: Process flow diagram of content upload

3.2.1.3 Use Case Scenario 3 – Applying for trainer as in website.

A person will apply for the trainer job in the website.

Applying for trainer as in website.

Purpose	Apply for trainer job.
User	A person need to create account.
Input Data	Person will provide their information in registration web page. Apply for trainer job.
Output Data	The company will check the details regarding to that person and they will reply the mail to that person
Invariants	Person documents and details.
Pre-conditions	Person need to create an account.
Post-conditions	The company will check the details regarding to that person and they will reply the mail to that person.
Basic Flow:	A person need to create account.Person will provide their information in registration web page. Apply for trainer job.
	The company will check the details regarding to that person and they will reply the mail to that person.

3.2.1.4 Use Case Scenario 4 – Admin works

A admin will accept or reject the user and trainer requests.

Admin works

Purpose	A admin will accept or reject the user and trainer requests.
User	Admin the that website.
Input Data	Admin login credentials.
Output Data	Accepts and rejects of user and trainer requests.
Invariants	Permissions.
Pre-conditions	User is logged in and the file must be shared with him or with the group which he is a member of.
Post-conditions	The user has downloaded the file successfully.

Basic Flow:	User logs in, selects the file which he wants to download. The file is then transferred from the server to the user's computer.

1.3 Performance Requirements

The system should support at least 200 concurrent users.
This statement provides a general sense of reliability when the system is under load. It is important that a substantial number of users be able to access the system at the same time, since an academic portal is important to the courses that employ it. The times when the system will be under the most stress are likely during assignment submissions. Therefore, it must be able to handle at least 200 concurrent users.

1.4 Logical database requirements

All data will be saved in the database: user accounts and profiles, discussion data, messages etc. (except files which are stored on the disk.) The database allows concurrent access and will be kept consistent at all times, requiring a good database design.

1.5 Design Constraints

1. The communication between the portal software and the database will be in SQL.
2. The portal layout will be produced with HTML/CSS.
3. The product will be written in PHP.
4. The output must be compatible with W3C XHTML 1.0
5. The source code must follow the coding conventions of PHP.
6. System administrators must have access to comprehensive documentation.

1.6 Software System Attributes

The software consists of the following elements:

1. The apache web server
2. The PHP application
3. The MySQL database
4. The database should remain consistent at all times in case of an error.

1.6.1 Reliability

The reliability of the overall program depends on the reliability of the separate components.

1.6.2 Availability

The system should be available at all times, meaning the user can access it using a web browser, only restricted by the down time of the server on which the system runs. In case of a of a hardware failure or database corruption, a replacement page will be shown. Also in case of a hardware failure or database corruption, backups of the database should be retrieved with the MySQL server and saved by the administrator.

1.6.3 Security

1. Passwords will be saved encrypted in the database in order to ensure the user's privacy.
2. The user's IP will be logged.
3. The system will be protected against vulnerabilities such as SQL injection attacks.

1.6.4 Maintainability

MySQL is used for maintaining the database and the Apache server takes care of the site. In case of a failure, a re-initialization of the program is recommended.

1.6.5 Portability

The application is Linux-based and should be compatible with other systems. Apache, PHP and MySQL programs are practically independent of the OS-system which they communicate with. The end-user part is fully portable and any system using any web browser should be able to use the features of the application.