

"ELECTRIC VEHICLES"

A MINI PROJECT REPORT

Submitted by

ANUSHA K M [1NH18IS015]

Under the guidance of,

Mrs. K M Bilvika

Assistant Professor, ISE, NHCE

In partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

IN

INFORMATION SCIENCE AND ENGINEERING

FOR

COURSE NAME: MINI PROJECT

COURSE CODE: 20ISE49



Name & Signature of Guide Name & Signature of HOD



Name & Signature of Principal

CERTIFICATE

Certified that the project work entitled Electric vehicles carried out by Ms.Anusha K M, bearing USN 1NH18IS015, a bonafide student of 5th semester in partial fulfillment for the award of Bachelor of Engineering in Information Science & Engineering of the Visveswaraiah Technological University, Belagavi during the year 2020-21. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated. The project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Mrs. K M Bilvika	Dr. Anandhii R J	Dr. Manjunatha		
Examiners:				
Name		Signature		
1.	_			
2	_			

ACKNOWLEDGEMENT

Any project is a task of great enormity and it cannot be accomplished by an individual without support and guidance. I am grateful to a number of individuals whose professional guidance and encouragement has made this project completion a reality.

I have a great pleasure in expressing my deep sense of gratitude to the beloved Chairman **Dr. Mohan Manghnani** for having provided me with a great infrastructure and well-furnished labs.

I take this opportunity to express my profound gratitude to the Principal **Dr. Manjunatha** for his constant support and management.

I am grateful to **Dr. R J Anandhi**, Professor and Head of Department of ISE, New Horizon College of Engineering, Bengaluru for his strong enforcement on perfection and quality during the course of my project work.

I would like to express my thanks to the guide **Mrs. K M Bilvika**, Assistant Professor, Department of ISE, New Horizon College of Engineering, Bengaluru who has always guided me in detailed technical aspects throughout my project.

I would like to mention special thanks to all the Teaching and Non-Teaching staff members of Information Science and Engineering Department, New Horizon College of Engineering, Bengaluru for their invaluable support and guidance.

ANUSHA K M 1NH18IS015

ABSTRACT

Road transportation with electric vehicles has gained more importance after the first oil crisis. This website presents some introducing electric vehicles on traffic, environment, energy. The perspectives and goals of the electric vehicle is briefly discussed in website. Endly, the state-of-the-Art of electric and hybrid electric vehicles is described with main attention devoted to battery chargers, drive systems and control systems technology and developments.

TABLE OF CONTENTS

CHAPTER 1	
Introduction	5
1.1-Purpose of the project	
1.2-Objectives	
1.3-Modules covered	
CHAPTER 2	
Project Requirements	6
Hardware and Software	
2.1-Functional Requirements	
2.2-Modules used in project	
2.2 Modules used in project	
CHAPTER 3	
System Design	8
3.1-Database design	8
3.2-Data flow diagram	9
3.2.1-Admin Table design	9
3.2.2-User Table design	10
3.2.3-Feedback design	10
CHAPTER 4	
Implementation	11
4.1-Functional Requirements	11
4.2-Non-Functional Requirements	
HTML	
CSS	
Java script	
4.2-Back end technology-PHP	
4.3-Database technology-MySQL	
CHAPTER 5	
Sample Code Snippet	14-17

CHAPTER 6	
Testing1	8
6.1-Unit Testing	
6.2-Integration Testing	8
CHAPTER 7	
7.1-Index page	19
7.2-Login page	
7.3-Sign up	
7.4-Welcome page	
7.5-Feedback form	
7.6-Admin user feedback view page2	23
7.7-Admin page	24
7.8-Logout page	
CHPATET 8 Conclusion	25
CHAPTER 9	
References	26

LIST OF TABLES

3.2.1-Admin Table design	9
3.2.2-User Table design	
3.2.3-Feedback design	10

LIST OF FIGURES

3.1-Data flow diagram	9
3.2-List of the Tables	9-10
7.1-Index page	19
7.2-Log in Page	20
7.3-Sign up Page	21
7.4-Welcome Page	22
7.5-Feedback form Page	23
7.6-Admin user feedback view	23
7.7-Admin Page	24
7.8-Log out Page	24

INTRODUCTION

Electricity is a domestically produced transportation fuel that will transform our nation's transportation sector. Today, the technology and infrastructure exist to promote transportation applications that move both people and goods using electricity as a fuel. This new generation of electric transportation will help the nation enter an era of clean transportation, reduce its dependence on foreign oil, reduces air pollution and sound polution.

1.1 Purpose of the Project:

The main objective of this website is bringing awareness to people about air pollution. And it includes a feedback form where a person can give his opinion about electric vehicles. And a person comes to know the places of charging electric vehicles.

1.2 Objectives

- To be able to build an interface that can connect public to local service providers.
- To produce a web based system with data base connectivity that allow a customer to
 Visit the website and can know about the electric vehicles.
- To produce efficient and secured management system.
- Also it gives the information about electric power charge stations.
- So that it brings the awareness among people about pollution.
- And also user can login to give the feedback on electric vehicles.

1.2 Modules Covered:

- User Module
- Admin module

PROJECT REQUIREMENTS

Hardware:

• Processor : Intel i3 / 2.4 GHz/ 32/64 bit processor

• Ram : 512 MB

• Hard Disk : 40 GB

Software:

• Operating System : Windows 10 / Mac OS / Ubuntu

• Programming Language : HTML, CSS, PHP

• Database : MySql

2.1 Functional Requirements:

- Using PHP, users can select their preferred food items and classes.
- Admin can add/delete a user from the list.
- Different access given to the user and the admin.

2.2 Modules used in project

- **Index page-** This page shows the first look of the website.
- **Sign up** This is a basic registration form in which user adds some basic details like name, username, password to login. This is a mandatory step for all users.
- **Login** This page is used for authenticating the user in the databases by checking the username and password from the database.
- Welcome This page is the first page after logging in into the website. It greets the
 user by welcoming the user to the website and displays the information about electric
 vehicles. This page actually gives the information regarding electric vehicles and power
 stations and it create the awareness among people about pollution.
- **Feedback** –In this form the user can give his feedback.
- Adminuserfeedback- In this the feedback given by the user will be displayed.
- Log out- This option is present on welcome page of the website, allowing users to log out at any point of time.

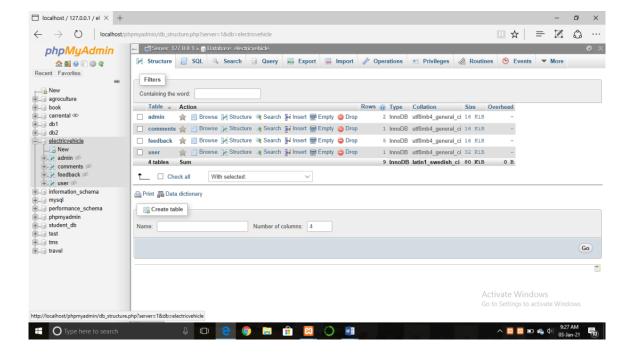
CHAPTER-3

SYSTEM DESIGN

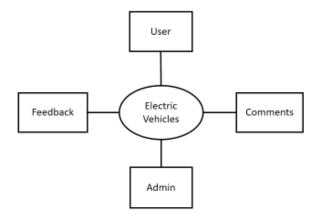
3.1 Database Design:

The data required for this project is organized and store as tables in MYSQL database.

Now that we have run and tested PHPmyadmin, the next step is running MySQL and creating a database and table which will hold information to be used by our database. In order to start MySQL, navigate to the xampp directory and run the mysql_start.bat batch file. The XAMPP package contains an application called phpMyAdmin which allows developers to administer, and enter test data. Before testing phpMyAdmin, make sure that both Apache and MySQL are running by opening their respective batch files: apache_start.bat and mysql_start.bat. Along with Apache and MySQL running in the background, we type http://ganis-macbook-air.local/ into our web browser .



.Data-Flow Diagram:



The lists of tables in this project are:

3.2.1 Admin Table Design:

The Admin table consists of the main details of Admin; it is shown in the diagram below,

Admin:

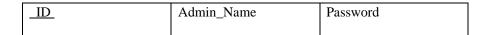


Table: 3.2.1: Admin

- ID: refers to the unique ID of the admin.
- Admin_Name: refers to the name of the admin.
- Password: refers to the password of the admin.

3.2.2 User Table Design:

User table refers to the details about the user. The table is shown below:

User:

ID	username	userphone	useremail	password

Table:3.2.2:User

- ID: refers to the unique ID of the user to identify each user.
- username: refers to name of different users.
- userphone: refers to the phone number of the user.
- Useremail: refers to the email of the user.
- Password: refers to the password of the user.

3.2.3 Feedback Design:

Feedback table refers to the feedback given by the user. The table is shown below:

Feedback:

ID	fname	lname	cphone	email	state	feedbacktext

Table: 3.2.3: Feedback

- ID: refers to the unique ID of feedback.
- fname: refers to the first name of the user who gives feedback.
- lname: refers to the last name of the user who gives feedback.
- Cphone : refers to the cell phone number of the user
- Email: refers to the email of the user.
- State: refers the state of the user
- Feedbacktext: refers to the feedback given by the user.

Chapter 4:

Implementation

4.1 FUNCTIONAL REQUIREMENTS

- The purpose of this project is to give the admin complete reference of the gallery with all the details required for every aspects.
- To view customer profile by listing the artworks ordered by them and if any dueamounts left, last-date to delivery is pending etc.
- To provide functionality to search artworks added done by different artists.
- To provide functionality to search different artists, art-types, artworks, different gallerybranch available.
- To provide basic information about registered customers and there orders.
- To provide functionality to add or remove artist or artworks or art-type.

4.2 NON-FUNCTIONAL REQUIREMENTS

- Scalability: The system shall be scalable to support implementation on a larger scale, example: multiple cities, or a country
- Extensibility: The project code can be reused and can be modified suitably to perform other functionalities for future improvements.
- Maintainability: The system shall be optimized for supportability or ease of maintenance as far as possible.

HTML:

HTML is the standard markup language for creating Web pages.

- HTML stands for Hyper Text Markup Language
- HTML describes the structure of Web pages using markup
- HTML elements are the building blocks of HTML pages

- HTML elements are represented by tags
- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on
- Browsers do not display the HTML tags, but use them to render the content of the page

CSS:

CSS stands for Cascading Style Sheets

- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files
- CSS is used to define styles for your web pages, including the design, layout and variations in display for different devices and screen size.

JavaScript (JS):

JavaScript, often abbreviated as JS, is a high-level, interpreted programming language. It is a language which is also characterised as dynamic, weakly typed, prototype-based and multi-paradigm. Alongside HTML and CSS, JavaScript is one of the three core technologies of the World Wide Web.

4.2 Back-end Technology:

PHP:

- PHP: Hypertext Preprocessor is a server-side scripting language designed for Web development, and also used as a general-purpose programming language. It was originally created by Rasmus Lerdorf in 1994, the PHP reference implementation is now produced by The PHP Group.
- PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems, and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server

4.3 Database technology:

MySQL:

MySQL is an open source relational database management system (RDBMS) based on Structured Query Language (SQL). MySQL runs on virtually all platforms, including Linux, UNIX, and Windows.

•

Sample Code Snippet

5.2 php

```
6
  <!DOCTYPE html>
7
   <html lang="en">
8
   <head>
9
       <meta charset="UTF-8">
10
       <meta name="viewport" content="width=device-width, initial-</pre>
   scale=1.0">
11
       <title>Electric Vehicles</title>
       <link rel="stylesheet" href="styleindex.css">
12
13
   src="https://kit.fontawesome.com/a076d05399.js"></script>
14 </head>
15 <body>
     <nav>
16
17
       <div class="wrapper">
         <div class="logo"><a href="#">Electric
18
   Vechicles</a></div>
19
         <input type="radio" name="slider" id="menu-btn">
20
         <input type="radio" name="slider" id="close-btn">
21
         <label for="close-btn" class="btn close-btn"><i</pre>
22
   class="fas fa-times"></i></label>
23
           <a href="admin/adminlogin.php">Admin</a>
24
           <a href="user/userlogin.html">User</a>
25
           <1i>>
26
             <a href="aboutus.html" class="desktop-item">About
   Us</a>
            27
28
         29
         <label for="menu-btn" class="btn menu-btn"><i class="fas</pre>
   fa-bars"></i></label>
30
       </div>
31
     </nav>
32
33
    <div class="body-text">
34 </br>
35 </br>
36 </br>
37 <br/>
38
      <img src="images/im3.jpeg" alt="">
39
     </div>
40 </body>
41 </html>
42 <html>
```

Login:

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
  <meta charset="utf-8">
  <title>Login & Signup Form</title>
  <link rel="stylesheet" href="styleuser.css">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
 </head>
 <body>
  <div class="wrapper">
   <div class="title-text">
    <div class="title login">Login Form</div>
    <div class="title signup">Signup Form</div>
   </div>
   <div class="form-container">
    <div class="slide-controls">
     <input type="radio" name="slide" id="login" checked>
     <input type="radio" name="slide" id="signup">
     <label for="login" class="slide login">Login</label>
     <label for="signup" class="slide signup">Signup</label>
     <div class="slider-tab"></div>
    </div>
    <div class="form-inner">
     <form action="login.php" method="POST" class="login">
       <div class="field">
        <input type="text" name="useremail" placeholder="Email Address" required>
       </div>
       <div class="field">
        <input type="password" name="password" placeholder="Password" required>
       </div>
       <div class="field btn">
        <div class="btn-layer"></div>
        <input type="submit" value="Login">
       <div class="signup-link">Not a member? <a href="">Signup now</a></div>
     </form>
     <form action="registration.php" method="POST" class="signup">
           <div class="field">
        <input type="text" name="username" placeholder="User Name" required>
```

```
</div>
           <div class="field">
        <input type="text" name="userphone" placeholder="Phone Number" required>
       </div>
       <div class="field">
        <input type="text" name="useremail" placeholder="Email Address" required>
       </div>
       <div class="field">
        <input type="password" name="password" placeholder="Password" required>
       </div>
       <div class="field btn">
        <div class="btn-layer"></div>
        <input type="submit" value="Signup">
       </div>
     </form>
    </div>
   </div>
  </div>
  <script>
   const loginText = document.querySelector(".title-text .login");
   const loginForm = document.querySelector("form.login");
   const loginBtn = document.querySelector("label.login");
   const signupBtn = document.querySelector("label.signup");
   const signupLink = document.querySelector("form .signup-link a");
   signupBtn.onclick = (()=>{
    loginForm.style.marginLeft = "-50%";
    loginText.style.marginLeft = "-50%";
   });
   loginBtn.onclick = (()=>{
    loginForm.style.marginLeft = "0%";
    loginText.style.marginLeft = "0%";
   });
   signupLink.onclick = (()=>{
    signupBtn.click();
    return false;
   });
  </script>
 </body>
</html>
<?php
```

```
session_start();
$con = mysqli_connect('localhost','root',");
mysqli_select_db($con, 'electricvehicle');
$name = $_POST['username'];
$email = $_POST['useremail'];
$password = $_POST['password'];
$s = "select * from user where useremail = '$email' && password = '$password''';
$result = mysqli_query($con, $s);
$num = mysqli_num_rows($result);
if(\text{$num == 1)}
$_SESSION['username'] = $name;
header('location:home.php');
}
else{
header('location:userlogin.html');
echo" Incorrect Email and Password";
}
?>
```

TESTING

6.1 UnitTesting

Unit testing is a software development process in which the smallest testable parts of an application, called units, are individually and independently scrutinised for proper operation. Unit testing can be done manually but is often automated.

6.2 Integration Testing

After the three individual units have been integrated into a single web page, it is essential to check that the page works as a whole. The integration testing is started by testing that all the frames can be accessed. Smooth transitions from one frame to the other correct redirected frames are also checked.

The forms are tested with input test data and verified that the input is received and processed by the server program that has established a connection with the database. The test data received as input is used to modify the database through the SQL commands. This procedure is also tested to ensure correct access, insertion and update of the tables corresponding to the action performed by the user.

CHAPTER 7

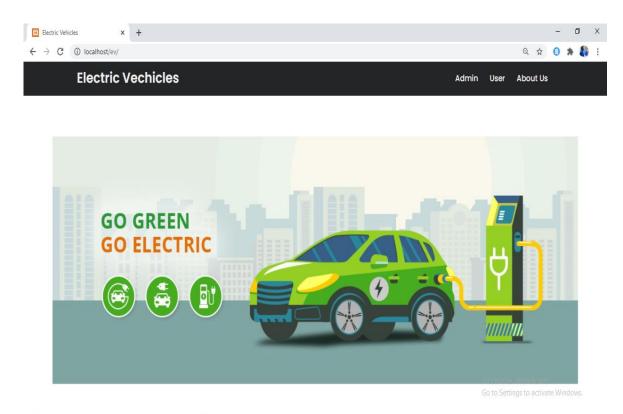




Fig 7.1: Index page

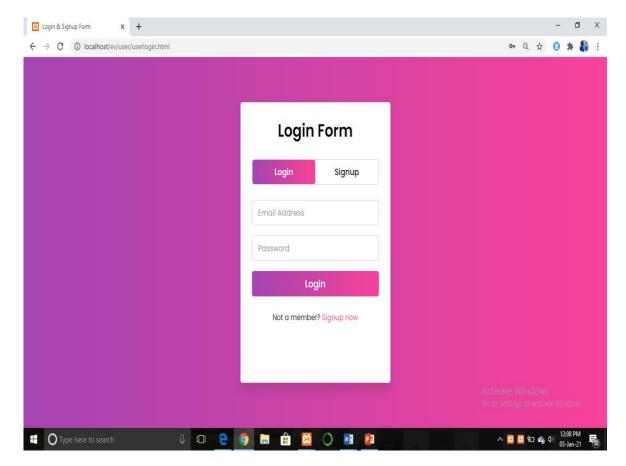


Fig 7.2: log in page

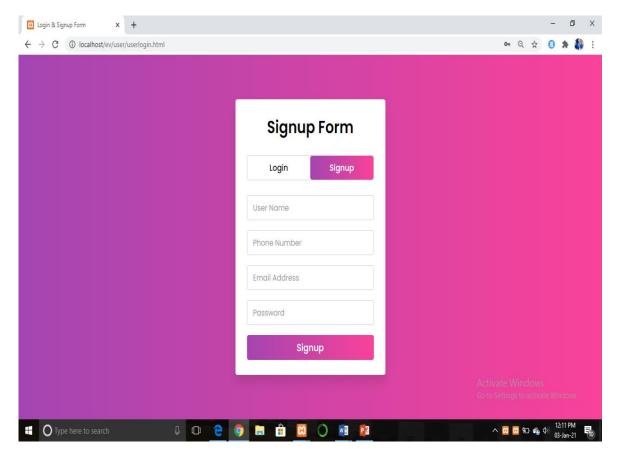


Fig 7.3:sign up

Signup page consists of various text fields to be filled and all the fields are strictly required. The user has to choose a unique username and password while registering. This username and password is used for login.

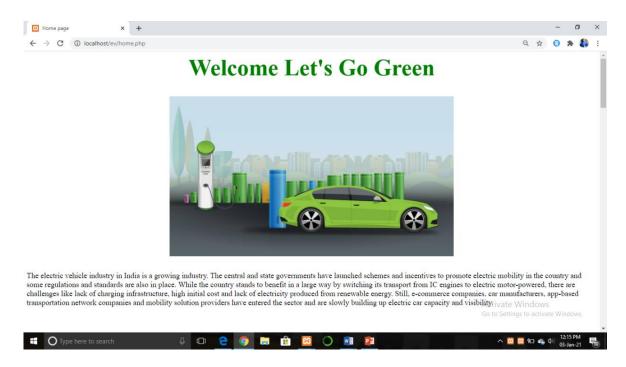


Fig: 7.4:Welcome Page

Welcome page consists of the information regarding electric vehicles and power stations and it create the awareness among people about pollution.

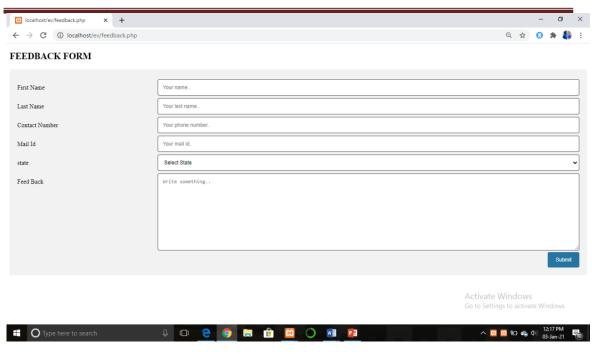


Fig: 7.5: Feedback form page

user database × + ← → C ① localhost/ev/admin/userfeedback.php Q # 0 # 4 IdFirst Name last Name Phone No Gmail 1 SUNI 5676890 s@gmail.com india 2 nandini gowda 963284541 nandinigowda1998@gmail.com india it gud and eco friendly ya i would like to buy the product 5 anush 981365752 anush@gmail.com S karnataka 854628923 divya@gmail.com andrapradesh i would like to buy this product 16 divya 17 nandini s 981365752 divya@gmail.com delhi ya bt i would not like



Fig 7.6: Admin user feedback view page

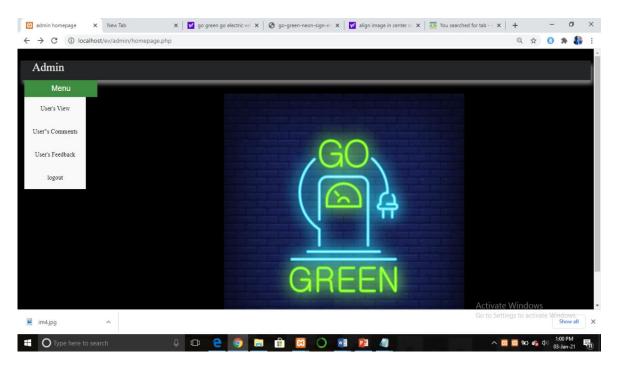
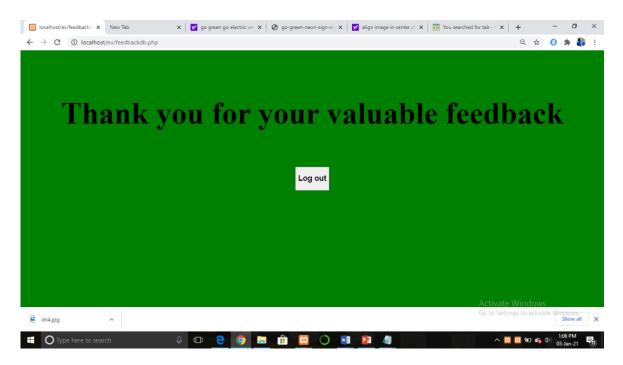


Fig 7.7: Admin page



7.8 Logout Page

CONCLUSION

- The road electric vehicle is still in an oncoming phase. The trolleybuses are the exceptions to this practically general situation.
- In this paper an attempt has been made to show the importance of the possible new transport system through the description overcome air pollution and reduce the usage of fuels.

.

REFERENCES

- Support for Frontend: https://www.w3scools.com,
 https://www.tutorialspoint.com
- Source for Images: https://www.google.co.in
- Support for MYSQL: https://www.w3schools.com, https://www.google.co.in
- Support for Templates : http://colorlib.com
- Support for PHP connectivity with MYSQL: http://www.w3schools.com
- Support for tutorials: http://www.udemy.com