SUMMER INTERNSHIP REPORT -2023

BANARAS LOCOMOTIVE WORKS

VARANASI-221004

SUBMITTED TO:

PRINCIPAL

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BLW/Varanasi

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CONTENTS

Abstract

- The purpose of the project entitled as "**Railway Vendor Web Project** " is an online web-based system that help any user to insert and retrieve the data from the database by using his own login credential.
- This system also provides the opportunity to the user to login by his own login credential or if the user is not registered, the web page register option is given in the website. After login the user enters the bill number, description of the product, claimed amount, passed amount, deduction, vendor code, vendor name. The elegant feature of the website is that, after the registration the user knows the total entries which will be enter in the table after the form fill-up which allow us to know the details of total amount passed and deduction of the product.
- The Railway Vendor Management System is a project aimed at developing a comprehensive software solution to manage and streamline the vendor management process within the railway system. The project focuses on creating an efficient platform for railway authorities to interact with vendors, track procurement activities, manage contracts, and ensure smooth collaboration between the railway and its vendors.

- Overall, the Project aims to optimize vendor management processes, enhance efficiency and transparency, ensure compliance, and foster strong collaborations between the railway authorities and vendors. It ultimately contributes to the effective functioning of the railway system by promoting quality, efficiency and management.

Introduction

1.1 Purpose:

- The purpose of the Railway Vendor Project is to establish an efficient and effective vendor management system within the railway system. The project aims to achieve the following purposes:

- Data Organization: The project intends to organize the vast amount of data associated with the railway system, including the vendor details, claimed amount, deduction, bill number, and maintenance records. By structuring and categorizing the data in a systematic manner, it becomes easier to retrieve and analyze the information when needed.

- Cost Optimization: The project aims to optimize costs associated with vendor management and procurement. By streamlining processes, reducing manual efforts, and improving efficiency, the project helps in minimizing unnecessary expenses, eliminating redundancies, and negotiating better terms with vendors. This contributes to cost savings for the railway system.

- Enhanced Procurement Process: The project aims to optimize the procurement process within the railway system. By automating and centralizing procurement activities, the project reduces manual efforts, minimizes paperwork, and facilitates a more efficient procurement cycle. This leads to faster turnaround times, improved accuracy, and increased productivity in procurement operations.

- Secure and Accessible Platform: The web project ensures the security and accessibility of vendor-related information. It implements appropriate security measures to protect sensitive data and restrict access to authorized users

- The overall purpose of the Railway Vendor Web Project is to create a comprehensive and user-friendly platform that enhances vendor management, improves procurement processes, strengthens collaboration, ensures compliance, and drives efficiency within the railway system.

1.2 Scope :

- The scope of a Railway Vendor Web Project encompasses various aspects related to the management and accessibility of railway data. The following are the key areas within the scope of such a project:

- Payment and Invoicing: The project includes features to streamline the payment and invoicing processes between the railway authorities and vendors. It involves functionalities for generating invoices, verifying delivery or services rendered, initiating payment transactions, and maintaining financial records. The scope covers the integration of payment and invoicing mechanisms within the vendor management system.

- User Interface and Accessibility: The website should have a user-friendly interface that is accessible across different devices such as desktops, laptops, tablets, and smartphones. It should be designed to provide a seamless and intuitive user experience, allowing users to easily navigate through the various features and functionalities of the website

- Vendor Registration and Onboarding: The project includes functionalities to allow vendors to register and provide necessary information for onboarding into the system. This includes capturing vendor details, certifications, and relevant documentation. The scope covers the verification and approval process for vendor onboarding.

1.3 Overview :

- The Railway Vendor Project is a project that help the user to easily login the webpage by using his own login credential and if the user is not registered then register option is given to the user. After the login page the details fill up option is given which includes bill number, description, claimed amount, passed amount, deduction, vendor code, vendor name.

- After fill up the details a short message generated "Registration successful" show the entries. Here the entry section user can see how many people appeal for the bill, and how much amount is passed after the deduction.

- Database Management: The project involves designing and implementing a robust and scalable database management system to store and organize railway-related data. This includes Bills management, vendor details, freight management records, and maintenance information.

- The overall purpose of the Railway Vendor Web Project is to create a comprehensive and user-friendly platform that enhances vendor management, improves procurement processes, strengthens collaboration, ensures compliance, and drives efficiency within the railway system.

- The Railway Vendor Web Project aims to develop a web-based platform to streamline and enhance the vendor management process within the railway system. It focuses on creating a centralized system that facilitates efficient communication, collaboration, and procurement activities between the railway authorities and vendors.

Overall Description:

Railway vendor web project using PhpMy admin and My SQL

2.10 Project Perspective:

- The Railway Vendor Web Project is developed as a web-based application using (Html, CSS, Java-script, PhpMy-Admin, My SQL).

- The purpose of the Railway Vendor Web Project is to leverage modern database technologies and web-based interfaces to improve the efficiency, accuracy, and accessibility of railway-related data,

- Development: The actual development of the web platform takes place in this phase. It involves coding the frontend user interface using web technologies such as HTML, CSS, and JavaScript. The backend development involves implementing server-side logic using technologies like PHP, My SQL, XAMMP.

2.11 System Perspective:

- The Railway web-based database website interacts with various system interfaces to ensure seamless integration and data flow.

- It utilizes the PhpMy admin database as the data storage. PhpMyAdmin is a popular web-based tool for managing MySQL databases. It provides a user-friendly interface that allows users to interact with databases, execute SQL queries, manage tables and relationships, import/export data, and perform various administrative tasks.

2.13 User Interface:

- The User interface for Railway Vendor Web Project is that as the user logs in himself by their login credential and if the user do not have their login credential they have to register.

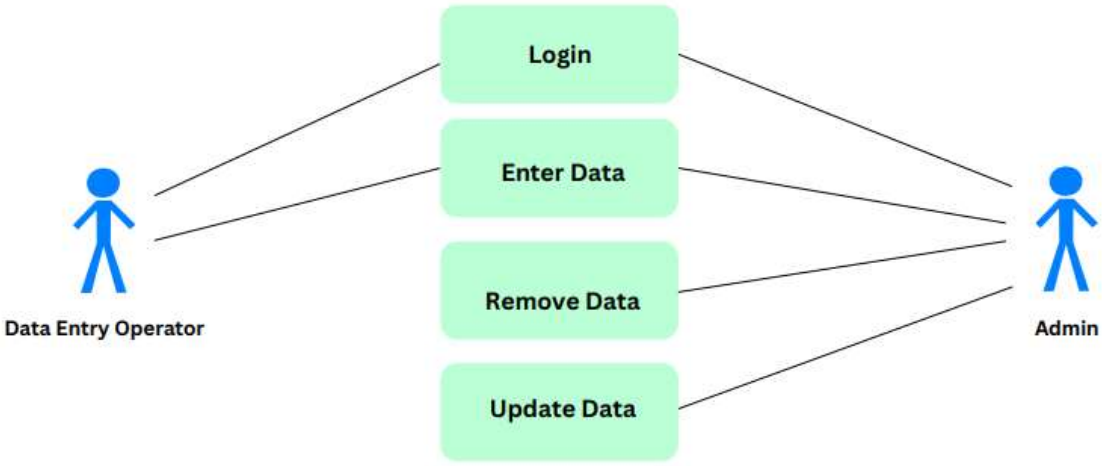
- Secondly after login, the web page for the vendor entry opens here bill number, description, claimed amount, passed amount, deduction, passed amount, vendor code, vendor name is given which is have to filled by the user which is mandatory field after that a short message given that is "Registration Successful" See the entries, Here the user sees how many vendors have registered and how much amount is claimed or passed after deduction on a Table format.

2.14 Hardware Interface:

- The Railway Vendor Web Project is a web-based application, and as such, it does not have direct hardware dependencies. Users access the system through web browsers on their devices, including desktop computers, laptops, tablets, and smartphones. The system is designed to be responsive and compatible with different screensizes and resolutions, ensuring a seamless user experience across various devices.

- In summary, The Railway Vendor Web Project aims to develop a web-based platform to streamline and enhance the vendor management process within the railway system. It focuses on creating a centralized system that facilitates efficient communication, collaboration, and procurement activities between the railway authorities and vendors.

USE CASE DIAGRAM SAMPLE



USE CASE DIAGRAM

TECHNOLOGIES USED

1. Web Technologies:

- HTML (Hyper-Text Markup Language): Used forcreating the structure and content of web pages.
- CSS (Cascading Style Sheets): Used for styling thevisual presentation and layout of web pages.
- JavaScript: A programming language used for implementing interactive features and functionalities onweb pages.

2. Additional Libraries and Tools:

- PhpMyAdmin is a web-based graphical interface tool used for managing and administering MySQL databases. It provides a user-friendly interface that allows users to perform various database-related tasks without needing to write complex SQL queries or interact directly with the command-line interface. Here are some common uses of phpMyAdmin:

- XAMPP is a free and open-source software package that provides a local development environment for web developers. It combines several components, including Apache HTTP Server, MySQL database, PHP, and Perl, to create a complete stack for running web applications on a local machine.

- Visual Studio Code (VS Code) is a popular source code editor developed by Microsoft. It provides a lightweight and versatile environment for writing, editing, and debugging code across different programming languages and platforms.

IMPORTANT FRONT-END CODES

HTML Codes

```
<body>
    <header>
        <h2 class="logo"><img src="Daco_3987834.png" alt="Logo" width="80px" height="80px" ></h2>;
        <nav class="navigation">
            <a href="#">Sign Up</a>
            <a href="#">Register</a>
            <button class="btnpop">Login</button>
        </nav>
    </header>
    <div class="wrapper">

        <span class="icon-close"><ion-icon name="close"></ion-icon>
        </span>



        <div class="form-box login">
            <h2>LOGIN</h2>
            <form action="#">
                <div class="input-box">
                    <span class="icon"><ion-icon name="mail"></ion-icon></span>
                    <input type="email" id="email" required>
                    <label>Email</label>
                </div>
                    <div class="input-box">
                        <span class="icon"><ion-icon name="unlock"></ion-icon></span>
                        <input type="password" id="password" required>
                        <label>Password</label>
                    </div>
                    <div class="remember-forgot">
                        <a href="#">Forgot Password</a>
                    </div>

                    <button type="submit" class="btn" onclick="xyz()">Login</button>

                    <div class="login-register">
                        <p> Don't have an account-
                            <a href="#" class="register-link">Register</a>
                        </p>
                    </div>
            </form>
        </div>
```

details.html > ...

```
15
16      <div class="wrapper">
17          <div class="form-box details">
18              <h2>Enter Details</h2>
19              <form action="details_entry.php" method="post">
20                  <div class="input-box">
21                      <span class="icon"><ion-icon name="card-outline"></ion-icon></span>
22                      <input type="number" required name="BillN">
23                      <label >Bill No.</label>
24                  </div>
25                  <div class="input-box">
26                      <span class="icon"><ion-icon name="albums-outline"></ion-icon></span>
27                      <input type="text" required name="Description">
28                      <label >Description</label>
29                  </div>
30                  <div class="input-box">
31                      <span class="icon"><ion-icon name="cash-outline"></ion-icon></span>
32                      <input type="number" required name="ClaimedA">
33                      <label >Claimed Amount</label>
34                  </div>
35                  <div class="input-box">
36                      <span class="icon"><ion-icon name="cash-outline"></ion-icon></span>
37                      <input type="number" required name="PassedA">
38                      <label >Passed Amount</label>
39                  </div>
40                  <div class="input-box">
41                      <span class="icon"><ion-icon name="cash-outline"></ion-icon></span>
42                      <input type="number" required name="Deduction">
43                      <label >Deduction</label>
44                  </div>
45                  <div class="input-box">
46                      <span class="icon"><ion-icon name="barcode-outline"></ion-icon></span>
47                      <input type="number" required name="VendorC">
48                      <label >Vendor Code</label>
49                  </div>
50                  <div class="input-box">
51                      <span class="icon"><ion-icon name="accessibility-outline"></ion-icon></span>
52                      <input type="text" required name="VendorN">
53                      <label >Vendor Name</label>
54                  </div>
55                  <button type="submit" class="btn" name="save" value="Submit">Submit</button>
56              </form>
57          </div>
58      </div>
```

CSS Codes

style.css > ...

```css
@import url('https://fonts.googleapis.com/css2?family=Nunito:wght@200&display=swap');
*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Nunito', sans-serif;
}


body{
    display: flex;
    justify-content: center;
    align-items: center;
    min-height: 100vh;
    background: url('background.jpg') no-repeat;
    background-size: cover;
    background-position: center;

}

header{
    position: fixed;
    top: 0;
    left: 0;
    width: 100%;
    padding: 20px 100px;

    display: flex;
    justify-content: space-between;
    align-items: center;
    z-index: 99;
}
.logo{
    font-size: 2em;
    color: #14047b;
    user-select: none;
    /* margin-right: 20px; */
}

.navigation a{
    position: relative;
    font-size: 1.1em;;
    color:  #14047b;
    text-decoration: none;
```

style.css > ...

```
.wrapper{
    position: relative;
    width: 400px;
    height: 440px;
    background:transparent;
    border: 2px solid rgba(255, 255, 255, 0.5);
    border-radius: 20px;
    backdrop-filter: blur(20px);
    box-shadow: 0 0 30px rgba(0, 0, 0, 0.5);
    display: flex;
    justify-content: center;
    align-items: center;
     overflow: hidden;
     transform: scale(0);
    transition: height .2s ease;
    transition: transfrom .5s ease, height .2s ease;
}
.wrapper .form-box{
    width: 100%;
    padding: 40px;
    height: inherit;
}

.form-box h2{
font-size: 2em;
color: #fff;
text-align: center;

}


.input-box{
    position: relative;
    width: 100%;
    height: 50px;
    border-bottom: 2px solid #fff;
    margin: 30px 0px;


}

.input-box label{
    position: absolute;
    top:50%;
```

JAVASCRIPT-CODE

JS script.js > xyz

```
const wrapper=document.querySelector('.wrapper');
const loginlink=document.querySelector('.login-link');
const registerlink=document.querySelector('.register-link');
const btnPopUp=document.querySelector('.btnpop');
const iconClose=document.querySelector('.icon-close');

registerlink.addEventListener('click', ()=>{
    wrapper.classList.add('active');
});



loginlink.addEventListener('click', ()=>{
    wrapper.classList.remove('active');
});

btnPopUp.addEventListener('click', ()=>{
    wrapper.classList.add('active-popup');
});
iconClose.addEventListener('click', ()=>{
    wrapper.classList.remove('active-popup');
});

function xyz(){
    var email=document.getElementById("email").value;
    var password=document.getElementById("password").value;
    var username=document.getElementById("username").value;
    if((email=="vaibhavarya@gmail.com" && password=="BLW007")  ||
    (email=="vaibhavarya@gmail.com" && password=="BLW007" && username=="vaibhav")){
        window.location.assign("details.html");
        alert("Login Successful");
    }
    else{
        alert("Invalid Information");
        return ;
    }
}
```

IMPORTANT BACK-END CODES

PHP Codes

display.php

```php
<html>
    <head>
        <title> Data Entries </title>
        <link rel="stylesheet" href="show_page_table.css">
</head>
<body>

    <table border="2">

<tr>
        <th>Bill No.</th>
        <th>Description</th>
        <th>Claimed Amount</th>
        <th>Passed Amount</th>
        <th>Deduction</th>
        <th>Vendor Code</th>
        <th>Vendor Name</th>
</tr>

<?php
include("details_entry.php");
error_reporting(0);
$query="SELECT * FROM details";
$data=mysqli_query($conn,$query);
$total=mysqli_num_rows($data);

if($total !=0){
    while($result=mysqli_fetch_assoc($data))
    {
        echo "
        <tr>
        <td>".$result['BillN']."</td>
        <td>".$result['Description']."</td>
        <td>".$result['ClaimedA']."</td>
        <td>".$result['PassedA']."</td>
        <td>".$result['Deduction']."</td>
        <td>".$result['VendorC']."</td>
        <td>".$result['VendorN']."</td>
        ";
    }
}
else{
    echo "No records found";
}

?>
</table>
</body>
</html>
```

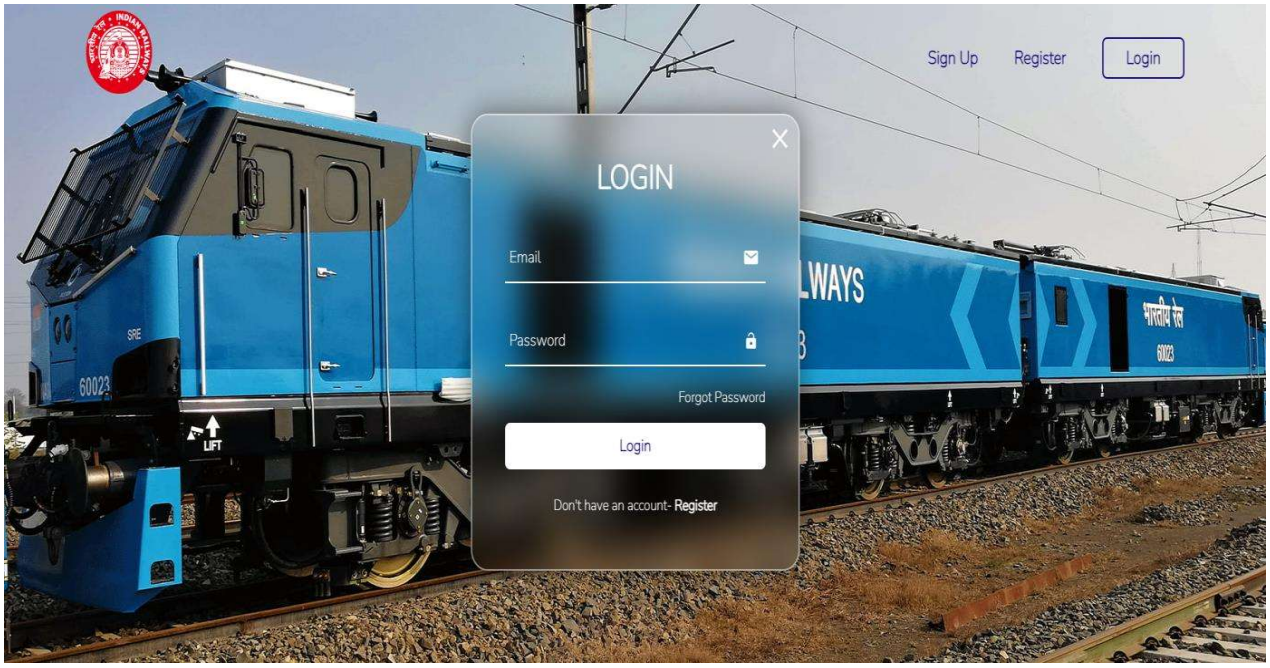
details_entry.php

```php
$username="root";
$password="";
$database_name="blw";

$conn=mysqli_connect($servername,$username,$password,$database_name);
if(!$conn){
    die("Connection Failed: ". conn->connect_error);
}

if(isset($_POST['save'])){
    $BillN=$_POST['BillN'];
$Description=$_POST['Description'];
$ClaimedA=$_POST['ClaimedA'];
$PassedA=$_POST['PassedA'];
$Deduction=$_POST['Deduction'];
$VendorC=$_POST['VendorC'];
$VendorN=$_POST['VendorN'];

$sql_query="INSERT INTO details(BillN,Description,ClaimedA,PassedA,Deduction,VendorC,VendorN)
    VALUES ('$BillN','$Description','$ClaimedA','$PassedA','$Deduction','$VendorC','$VendorN')";

    if(mysqli_query($conn, $sql_query)){
        echo "";
    }
    else
    {
        echo "Error: ".$sql."".mysqli_error($conn);
    }

    mysqli_close($conn);

}

?>
<a href="display.php" >SHOW THE ENTERIES</a>
</body>
</html>
```

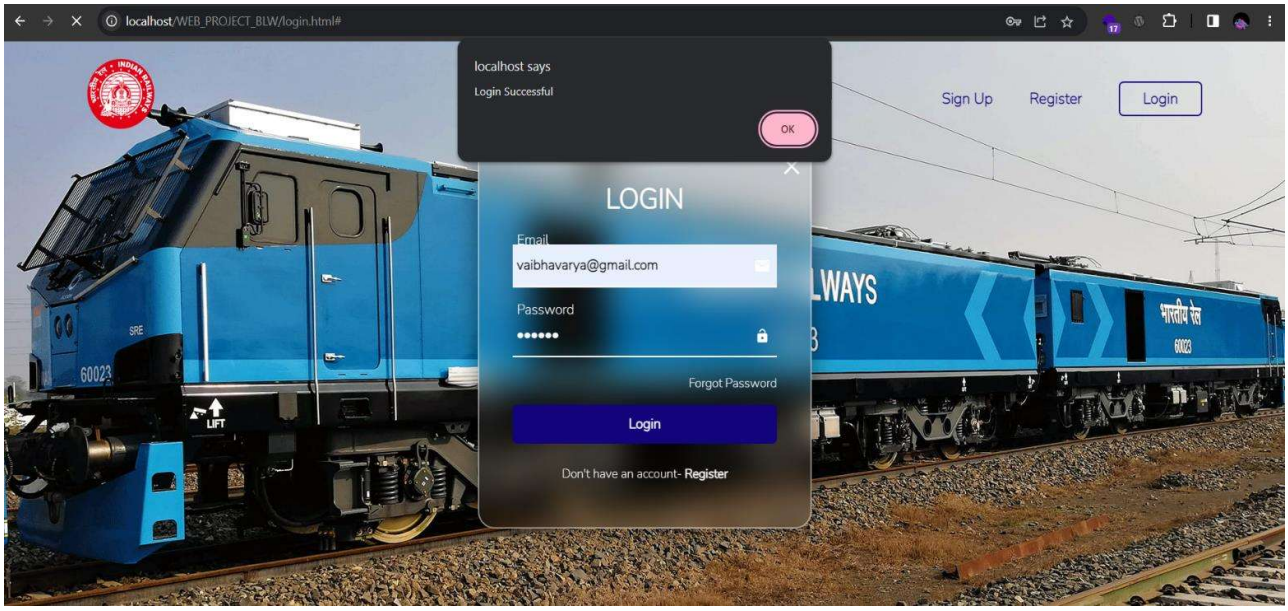
SNAPSHOTS OF THE PROJECT

Home Page Of The Project

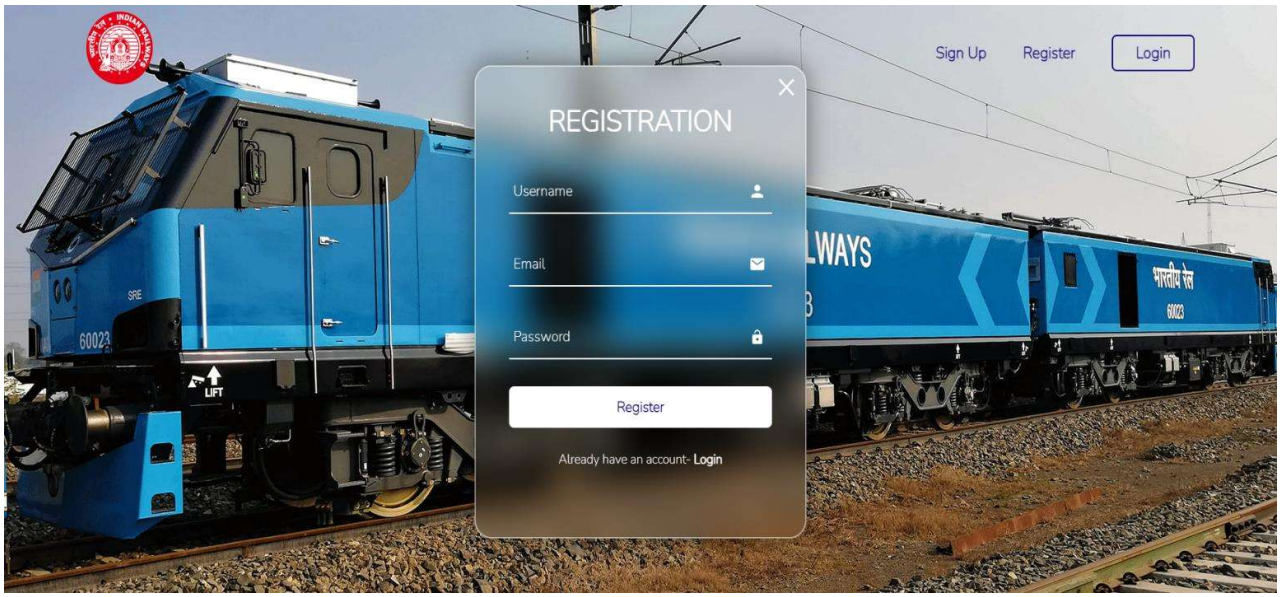
Login Page



Login Success



Registration Page



Detail Entry Page

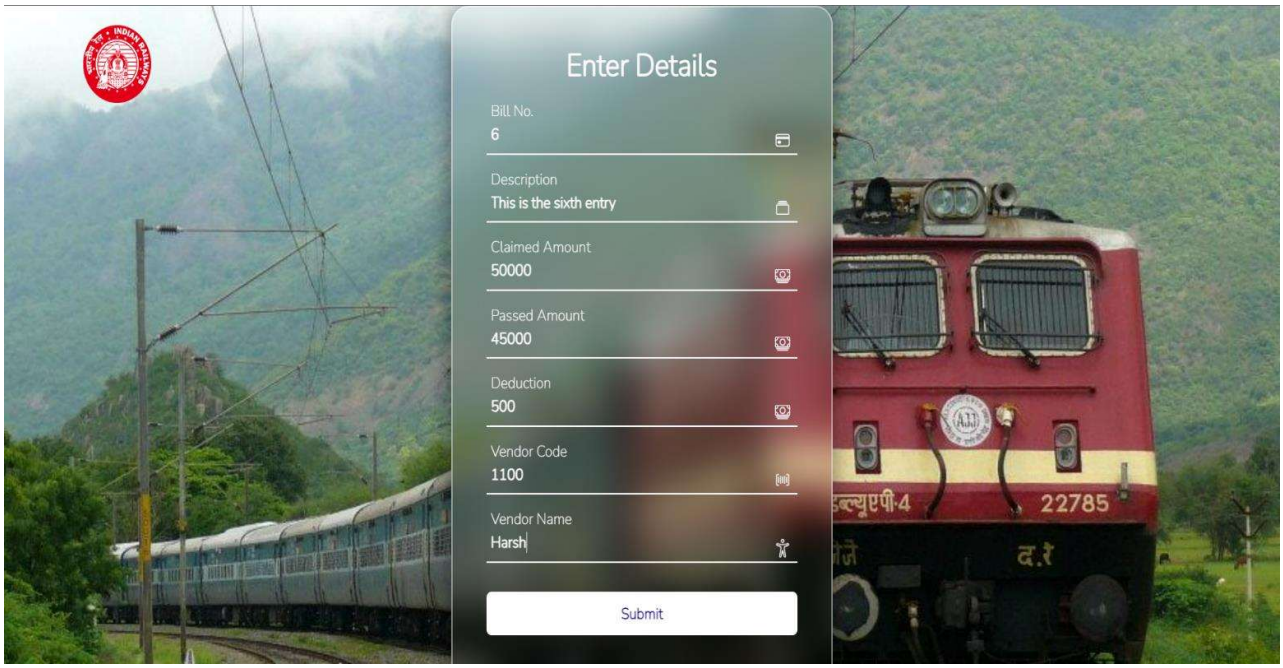
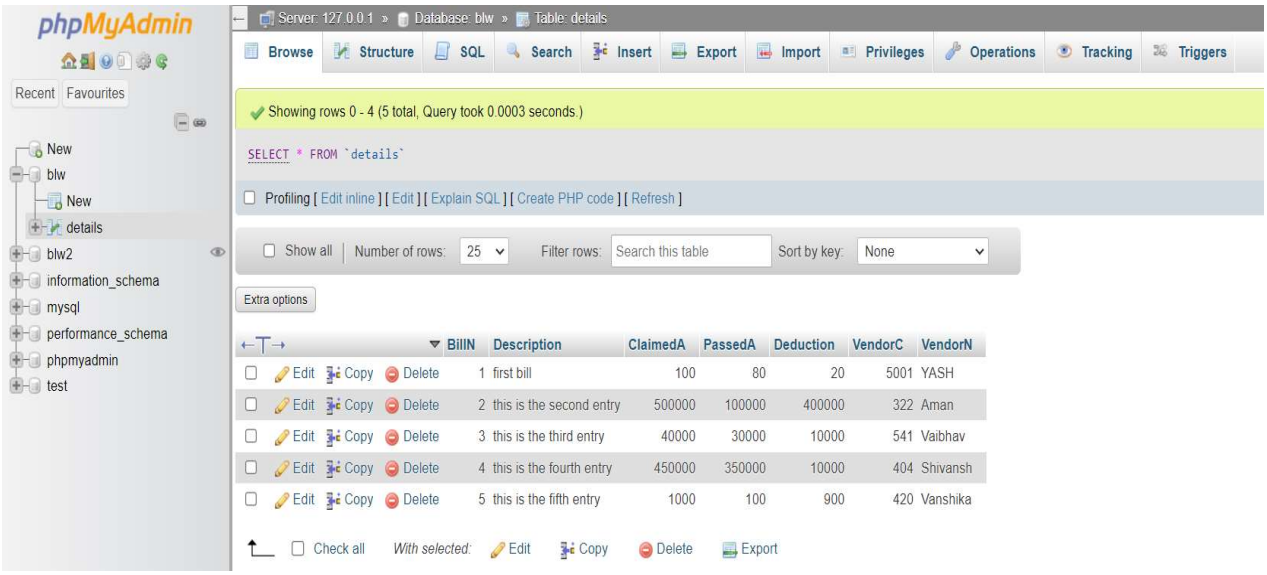


Table Details Page

SHOW THE ENTERIES

Bill No.	Description	Claimed Amount	Passed Amount	Deduction	Vendor Code	Vendor Name
1	first bill	100	80	20	5001	YASH
2	this is the second entry	500000	100000	400000	322	Aman
3	this is the third entry	40000	30000	10000	541	Vaibhav
4	this is the fourth entry	450000	350000	10000	404	Shivansh
5	this is the fifth entry	1000	100	900	420	Vanshika
6	This is the sixth entry	50000	45000	500	1100	Harsh

Backend Storage



Apache & MySQL Server