

PROFESSIONAL TRAINING REPORT
at
Sathyabama Institute of Science and Technology
(Deemed to be University)

Submitted in partial fulfillment of the requirements for the award of
Bachelor of Technology in Information Technology

By
V.R.KAVITHA(40120044)



DEPARTMENT OF INFORMATION TECHNOLOGY

SCHOOL OF COMPUTING

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI – 600119, TAMILNADU

MARCH 2023



SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
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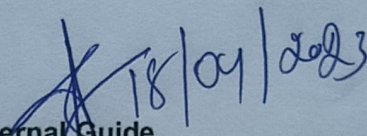
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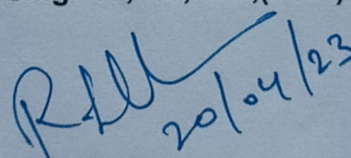
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BONAFIDE CERTIFICATE

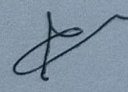
This is to certify that this Project Report is the bonafide work of **V.R.KAVITHA**
(40120044) who carried out the project entitled "**Online bus ticket reservation**
system" under my supervision from January 2023 to April 2023

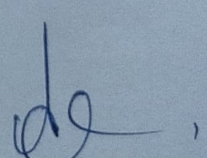

Internal Guide

Mr.Amandeep Singh K.,B.E, M.E,(PhD.)


Head of the Department
Dr. R.Subhashini, M.E., PhD.

Submitted for Viva-voce Examination held on 28/04/2023


Internal Examiner


External Examiner

DECLARATION

I **V.R.KAVITHA** hereby declare that the project report entitled **Online bus ticket reservation system** done by me under the guidance of **Mr. Amandeep Singh K.,B.E,M.E,(PhD.)** submitted in partial fulfilment of the requirements for the award of Bachelor of Technology in Information Technology.

DATE: 28/04/2023

PLACE: CHENNAI

V.R. Kavitha.

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to the **Board of Management** of **SATHYABAMA** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr. T. Sasikala M.E., Ph.D., Dean**, School of Computing, **Dr. R. Subhashini, M.E., Ph.D. Head of the Department of Information Technology** for providing me necessary support and details at the right time during the progressive reviews.

I would like to express my sincere and deep sense of gratitude to my Project Guide **Dr. Mr. Amandeep Singh K.,B.E, M.E,PhD.** for her valuable guidance, suggestions, and constant encouragement that paved way for the successful completion of my project work.

I wish to express my thanks to all Teaching and Non-teaching staff members of the **Department of Information Technology** who were helpful in many ways for the completion of the project.

ABSTRACT

Online Bus Ticket Reservation System is a Web based application that works within a centralized network. This project presents a review on the software program "Online Bus Ticket Reservation System" as should be used in a bus transportation system, a facility which is used to reserve seats, cancellation of reservation and different types of route enquiries used on securing quick reservations. In addition, PHP Hypertext Preprocessor (PHP) language was used for the front-end of the software while the back end was designed using MySQL. The details of the passengers are stored in the Database. The customer is given with PNR number for enquiry of the bus. we can create n number of administrators in the website the administrator has full control over the managing the routes of the buses and number of buses to the destination and timings of the arrival of buses to the destination. The person has ability to book ticket or cancel the ticket. He can book ticket 24*7 at any time if there is any vacancies in the bus that is travelling to the destination at given time. It can avoid the manual processing of tickets and counting money through out the journey with the help of this project the admin can look at the total earnings in the journey, and the total number of buses available and total number of seats, the details of the passengers. The php language is server side scripting language. The Xampp is used in this project for Apache and Mysql. the database is connected to the php using phpmyadmin and the records of the passengers are inserted into the database.

TABLE OF CONTENTS

CHAPTER No	TITLE	PAGE No
	ABSTRACT	ii
	LIST OF ABBREVIATIONS	vi
1	INTRODUCTION	1
1.1	Area of research	2
2	AIM AND SCOPE OF THE PRESENT INVESTIGATION	3
2.1	Aim	3
	Scope of the project	3
3	MATERIALS AND METHODS, ALGORITHMS USED	4
3.1	Software Requirements	6
3.2	Hardware Requirements	6
3.3	About Bus booking System using PHP	7
3.4	Admin panel and Route,Bus Management	7
3.5	Routes to the journey	9
3.6	Adding Customer to the journey	10
3.7	Online Bus Booking and seat availability	12
3.8	User management,Earning and PNR	13
3.9	Creation of Search box	43
3.9.1	Performance	44

4	RESULTS AND DISCUSSION	45
5	SUMMARY AND CONCLUSIONS	45
6	REFERENCES	46

LIST OF TABLES

TABLE NO.	TABLE NAME	PAGE NO.
3.1	Ideation map	5
3.2	Admin Login	8
3.3	Admin login user password	9
3.4	Add Routes	10
3.5	Dashboard of websites	11
3.6	Seat status	12
3.7	PNR enquiry	13
3.8	Database	14
3.9	Tables in database table	15
4.1	Performance	16
4.2	Network	17

LIST OF ABBREVIATIONS

PHP	Hypertext Preprocessor
Src	Source
CSS	Cascading Style Sheet
HTML	Hypertext Markup Language
XAMPP	Cross-platform,Apache,Mysql,PHP,Perl
Href	Hypertext Reference
JS	Javascript

CHAPTER 1

INTRODUCTION

Online Bus Booking System cloud based online software. This system would help customers to book a seat for their journey, book bus. This system would also help the owner to manage the coaches, employees, clients, services etc. Bus Reservation System will increase the booking process faster, convenient , and comfortable. Customers can book their desired seats. They can check the availability of posts on a specific date. The customer can check availability,book ticket, or cancel ticket 24X7. The online system is available to use anytime. User doesn't require to visit any office. They just need internet and device to use our system. They can check route, price, class etc This is a safe and secure way to expand the business. System decreases the human efforts and increases customer satisfaction.The ticket machines would help prevent loss on the account which will help the admin .It would also help the admin in providing adequate data to the corporation.Particularly this regard to the boarding of passengers from stages and important points. an admin has full control over the system. An admin has the right to manage the proper flow of the system. With it, the very first step of the management side falls upon the arrangement of bus records. The administrator has to provide few details such as the number/name of the bus. Also, the admin has the right to manage bus routes by providing various details. Indeed, these details include the names of cities, selection of available buses, the total cost with departure date and time.

1.1 AREA OF RESEARCH

PHP is a server side scripting language. that is used to develop Staticwebsites or Dynamic websites or Web applications. PHP stands for Hypertext Pre-processor, that earlier stood for Personal Home Pages.PHP scripts can only be interpreted on a server that has PHP installed.PHP performs system functions, i.e. from files on a system it can create, open, read, write, and close them.PHP can handle forms, i.e. gather data from files, save data to a file, through email you can send data, return data

to the user. You add, delete, modify elements within your database through PHP. Access cookies variables and set cookies. Using PHP, you can restrict users to access some pages of your website. It can encrypt data.

Moving on this bus ticket reservation system project in PHP focuses mainly on online ticket reservations and route management. Also, the system displays all the lists of available routes according to their prices. In addition, the system allows managing bus information too. This project is divided into categories: Admin and Customer. In an overview of this web application the role of the customer is pretty simple. A customer can only check the ticket status using PNR. Here the admin has to provide PNR code. As a result, the customers can have their bus ticket details such as route, seat, timing and other information. Besides all other features fall upon the hands of an administrator.

CHAPTER 2

AIM AND SCOPE OF THE PRESENT INVESTIGATION

2.1 AIM OF THE PROJECT

The primary goal of the project is to create a website for online bus ticket reservation system so that customers are given full permissions to book tickets 24*7 at any time from any place without visiting physically. It deals with transport industry's ticket booking and transport maintenance, so it becomes a tedious job for the ticket booking transporter to look after these particulars to complete the task at right time. This system will lead to increase in the ticket booking efficiency of the project staff and members of the Ticket Booking Agency with little throughput. This system project is made user friendly as possible so that anyone can use it with little knowledge of system computers. The ticket booking project will reduce the ticket booking tedious job of system paperwork by keeping all the project details of bus ticket booking, cancelling

tickets are stored in the form database in computer's hard disk. Up-to-date information of my project is to make easy the ticket booking project system of Ticket Booking Agency simple, reliable, user friendly, and corrective. Moreover less time consuming as compared to manual work

2.2 SCOPE OF THE PROJECT

The project is aimed to create a website of online bus ticket reservation system. The customer should login with administrator User name and password. book the seats in the bus at particular time. The passengers details are stored in the database. He can select the seat based on his wish if the seat not booked previously. we can easily know the earnings in the journey

CHAPTER 3

MATERIALS AND METHODS, ALGORITHMS USED

In our project, Online Ticket Booking system in Javascript is a software developed to support the booking business in providing its customers with an easy-to-use and automated online processing system. This project has 2 aspects of user limitations, namely administrator and client / website visitor. Moving on, this train ticket management system project in PHP focuses mainly on online ticket reservations and schedule management. Also, the system displays all the lists of available schedules according to their class prices. In addition, the system allows managing buses, routes, and schedule information too. This project is divided into two categories: Admin, and Passenger. The HyperText Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheet and scripting languages Such as JavaScript. MySQL is used for database using XAMPP we get the database and the

Apache server for running in the localhost .Database is used to store the information of the passengers.

System Architecture / Ideation Map

- Ideation map



Fig 3.1 Ideation map

3.1 Software Requirements:

- Install XAMPP control panel
- PHP, Mysql, perl, Database.
- Operating system

3.2 Hardware Requirements:

PC with Pentium IV processor.

512 MB RAM or above.

40 GB Hard Disk or above.

3.3 About Bus Booking System PHP Project:

Moving on, this bus ticket booking system project in PHP focuses mainly on online ticket reservations and route management. Also, the system displays all the lists of available routes according to their prices. In addition, the system allows managing bus information too. This project is divided into two categories: Admin, and Customer. In an overview of this web application, the role of the customer is pretty simple. A customer can only check the ticket's status using PNR. Here, the admin has to provide the PNR code. As result, the customers can have their bus ticket details such as route, seat, timing, and other information. Besides, all other features fall upon the hands of an administrator.

3.4 Admin Panel and Route, Bus Management

On the other hand, an admin has full control over the system. An admin has the right to manage the proper flow of the system. With it, the very first step of the management side falls upon the arrangement of bus records. The administrator has to provide few details such as the number/name of the bus. Also, the admin has the right to manage bus routes by providing various details. Indeed, these details include the names of

cities, selection of available buses, the total cost with departure date and time. And lastly, now the administrator has to provide the customer's details such as the name of the customer and contact details. For the record, each route and customer record will have its own unique id, which is required later on in the booking

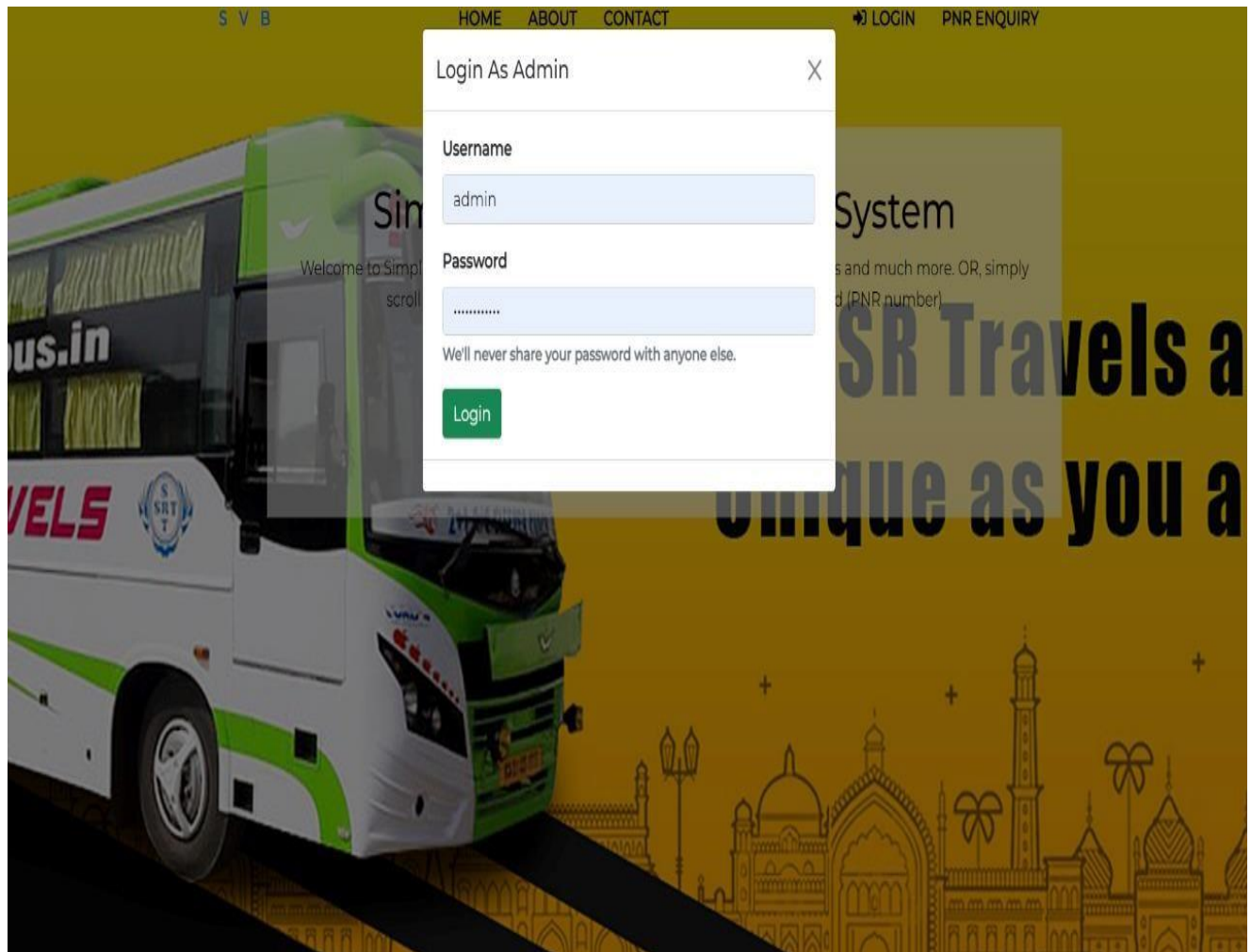


Fig 3.1: Admin Login



Fig 3.2: Admin login user password

3.5 Routes to the Journey:

Adding routes to the journey contains

- Via cities (comma separated list).
- BUS Number
- Cost
- Departure Date (calendar).
- Departure Time

Welcome, **Liam Moore**
LOGOUT

Route Status

ADD ROUTE DETAILS +

ID	Via Cities
RT-971972	CHENNAI,HY
RT-8812771	CHITTOR,TIRU
RT-7805970	HYDERABAD
RT-7491269	PILER,TIRUPA
RT-2651868	TELANGANA
RT-4658567	CMBT,MADH
RT-2117466	PILER,CHEN
RT-5466065	CHENNAI,CH
RT-3036864	CHENNAI,PO

Add A Route
×

Via Cities

Bus Number

Cost

Departure Date

Departure Time

Submit

Departure Time	Cost	Actions
20:06:00	\$15	EDIT DELETE
07:30:00	\$3	EDIT DELETE
20:00:00	\$16	EDIT DELETE
03:01:00	\$2	EDIT DELETE
08:00:00	\$14	EDIT DELETE
20:00:00	\$1	EDIT DELETE
20:30:00	\$8	EDIT DELETE
20:00:00	\$8	EDIT DELETE
20:00:00	\$8	EDIT DELETE
20:30:00	\$18	EDIT DELETE
20:43:00	\$28	EDIT DELETE
18:45:00	\$15	EDIT DELETE

Fig 3.4 Add Routes

3.6 Adding Customer to the journey:

We can add the customer details of the customers in the in the journey. We can add passengers or delete the details of the passengers from the database. It contains the details of the passengers like

- Customer First name • Customer Last name.
- Contact Number.

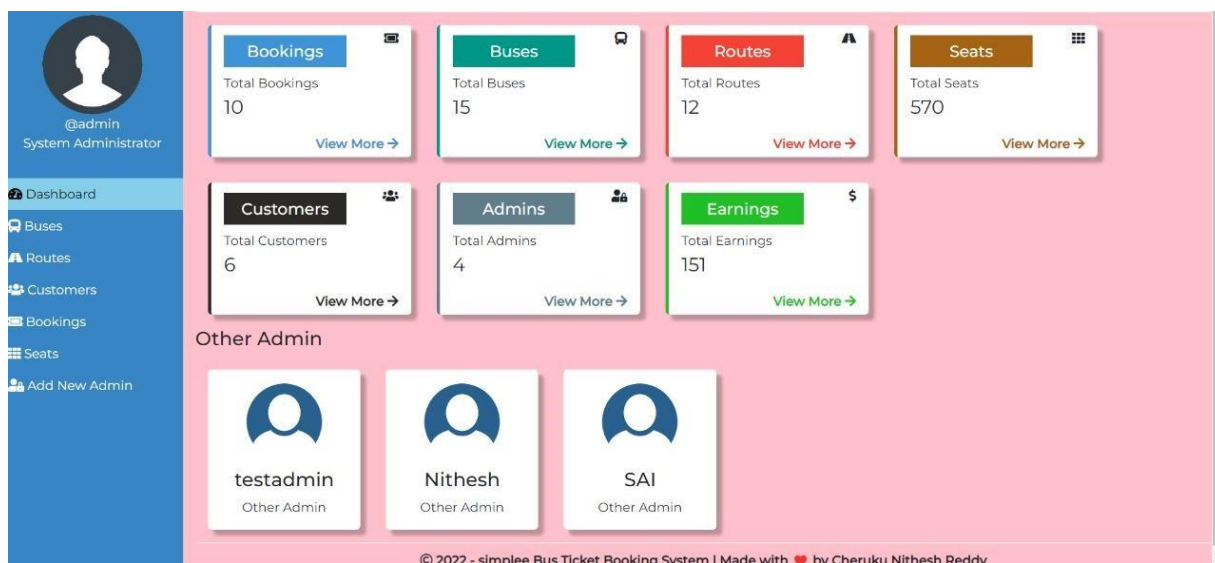
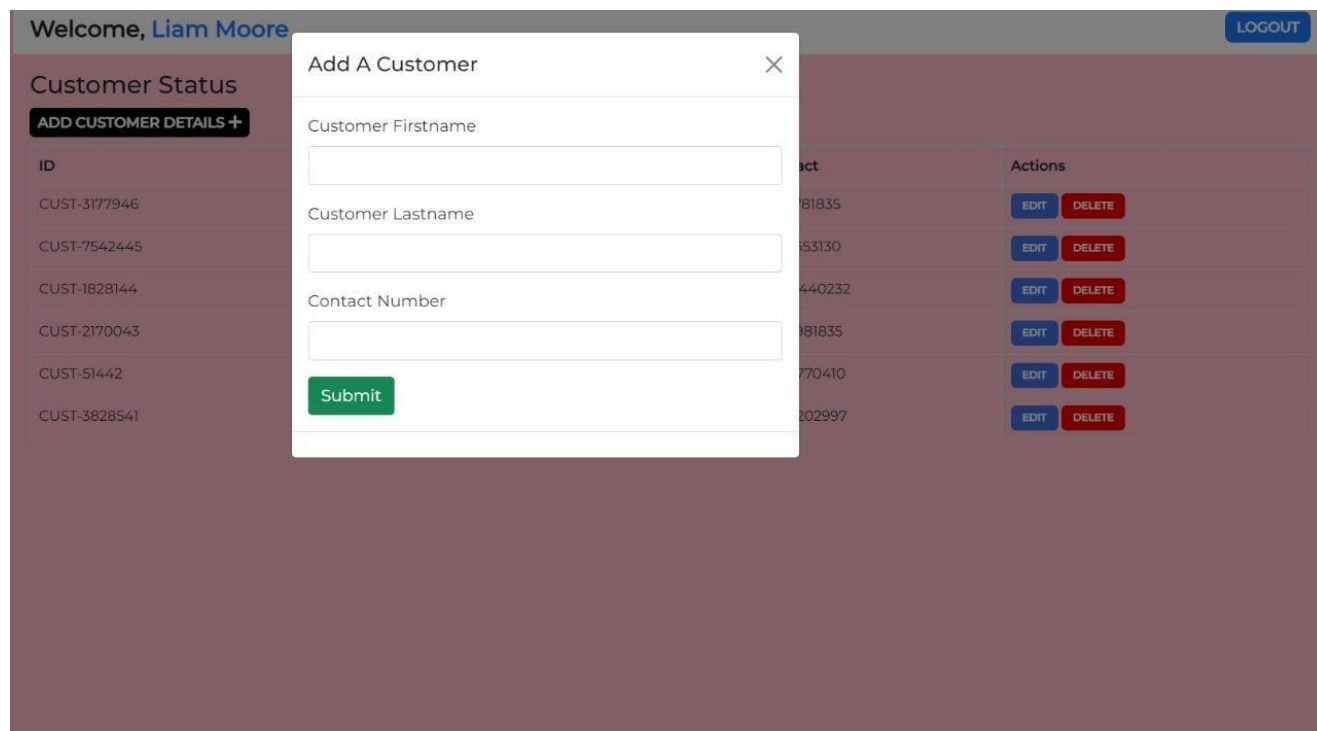


Fig 3.5: Dashboard of websites

3.7 Online Bus Booking and Seat Availability

Coming towards the booking section, an admin has to maintain each booking information. The system requires a number of details in order to book a bus. The admin has to select a customer, routes, and select seat numbers. Indeed, the abovementioned information helps to auto-fill certain other fields. Such as the selection of customer auto-fills every detail of customer, similarly the selection of routes auto-fills the name of source and destination. At last, the system automatically displays the total cost for the trip as soon as he/she selects a seat. The system automatically generates PNR codes after bookings. Also, the selection of seat numbers takes away the seat availability of that particular number. To make sure of these, the user can check the seat availability of buses by provided the bus number. The occupied seats are indicated using red color, whereas the remaining ones are default colors.

The screenshot displays a 'Seat Status' interface with a search bar and a grid of 38 seats. The search bar is labeled 'Bus Number' and has a 'Search' button. The grid consists of 5 rows and 8 columns. The seats are numbered 1 through 38. Seat 12 is highlighted in red, indicating it is occupied. The other seats are in a default light gray color. Below the grid, the text 'TS53943' is displayed.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27		28	29
30	31	32	33	34	35	36		37	38

TS53943

Fig 3.6:Seat status

3.8 User Management, Earnings and PNR

In general, the system prepares a summary highlighting the details of particular routes, buses, customers. Of course, this whole section contains total earnings too. Also, the administrator can add users for the management of the system by providing the required details. Meanwhile, the user can use the PNR code from the client-side in order to check the ticket's status and its details. Furthermore, the user can also print out the ticket details. Besides, the administrator can search details using the passenger's ticket number and have an overview of total earnings with other fields too.

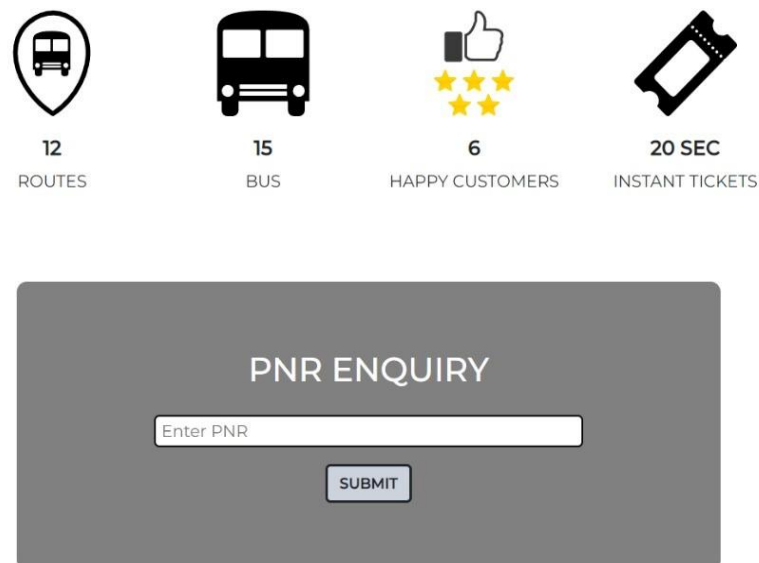


Fig 3.6: PNR enquiry

Database Connectivity to the PHP:

```
<?php
```

```
$servername = "localhost";
```

```
$username = "username";
```

```
$password = "password";
```

```
// Create connection
```

```
$conn = new mysqli($servername, $username, $password);
```

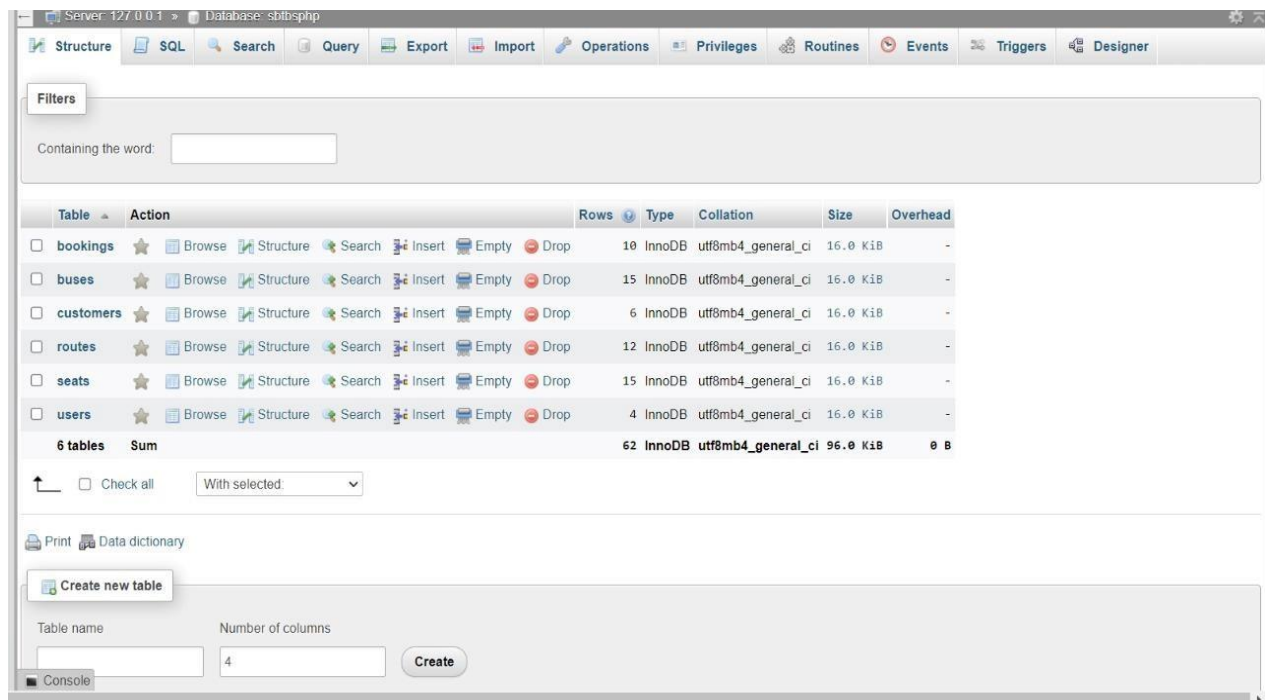
```
// Check connection if ($conn->connect_error) {
```

```
die("Connection failed: " . $conn->connect_error);
```

```
}
```

```
echo "Connected successfully";
```

```
?>
```



Browser	Structure	SQL	Search	Insert	Export	Import	Privileges	Operations	Triggers
☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]									
☐ Show all Number of rows: 25 Filter rows: Search this table Sort by key: None									
Extra options									
		id	booking_id	customer_id	route_id	customer_route	booked_amount	booked_seat	booking_created
☐	Edit	69	WESVJ69	CUST-1828144	RT-5761662	CHENNAI & rarr; WARNGAL	28	12	2022-10-04 19:13:37
☐	Edit	70	LESJT70	CUST-1828144	RT-2117466	PILER & rarr; CHENNAI	8	13	2022-10-04 19:52:57
☐	Edit	71	JOP5271	CUST-2170043	RT-1001063	CHENNAI & rarr; HYDERABAD	18	3	2022-10-04 19:54:10
☐	Edit	72	1BUZZ72	CUST-2170043	RT-5349761	CHENNAI & rarr; HYDERABAD	15	3	2022-10-04 19:55:02
☐	Edit	74	36HZR74	CUST-7542445	RT-971972	CHENNAI & rarr; HYDERABAD	15	2	2022-10-04 19:56:49
☐	Edit	75	RHWW475	CUST-51442	RT-2117466	PILER & rarr; CHENNAI	8	3	2022-10-04 19:57:16
☐	Edit	76	O3U9076	CUST-3828541	RT-2117466	PILER & rarr; CHENNAI	8	13	2022-10-04 19:57:43
☐	Edit	77	7OZXS77	CUST-51442	RT-1001063	CHENNAI & rarr; HYDERABAD	18	15	2022-10-04 19:58:24
☐	Edit	78	GBEIW78	CUST-3828541	RT-1001063	CHENNAI & rarr; HYDERABAD	18	16	2022-10-04 19:58:57
☐	Edit	79	35VZL79	CUST-3177946	RT-971972	CHENNAI & rarr; HYDERABAD	15	5	2022-10-04 20:00:08
☐ Check all With selected: Edit Copy Delete Export									
☐ Show all Number of rows: 25 Filter rows: Search this table Sort by key: None									

Inserting data into PHP:

```

<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection if
($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sql = "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('John', 'Doe', 'john@example.com)";

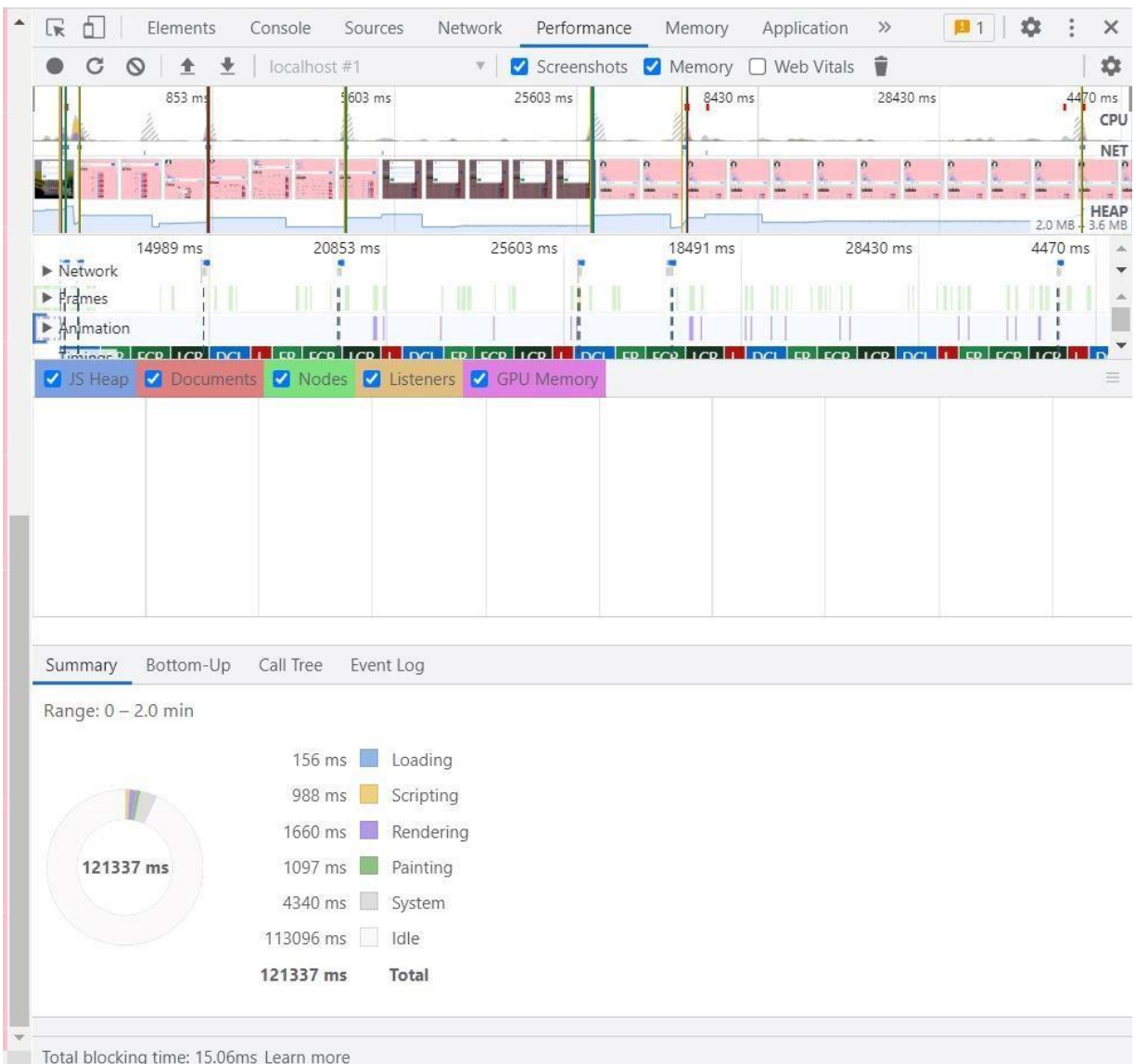
if ($conn->query($sql) === TRUE) {
    echo "New record created successfully";
} else {
    echo "Error: " . $sql . "<br>" . $conn->error;
}

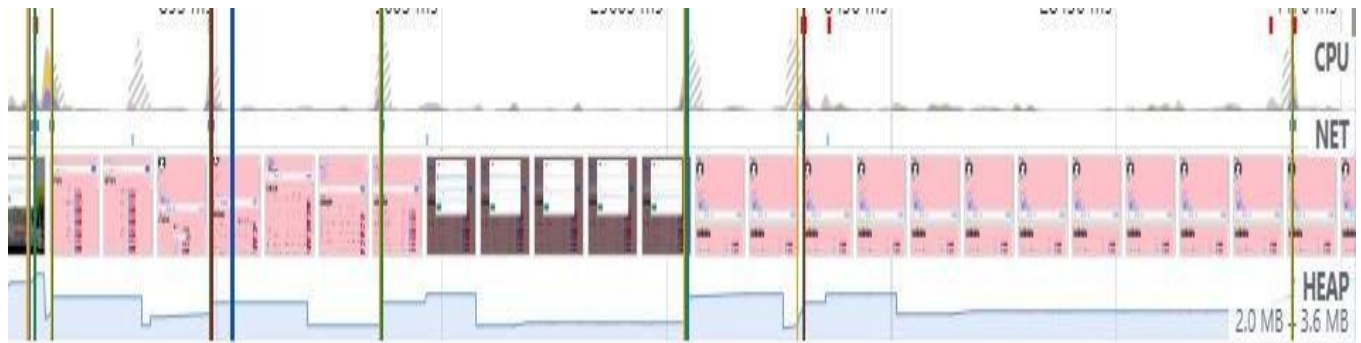
```

```
$conn->close();
```

?>

Performance of the online bus ticket reservation system is found by developer tools found using inspect element in the webpage.





14989 ms 28430 ms 4470 ms

Network
Frames
Animation
Timing
JS Heap
Docu

@admin
System Administrator

- Dashboard
- Buses
- Routes
- Customers
- Bookings
- Seats
- Add New Admin

Welcome, Liam Moore [LOGOUT](#)

Route Status

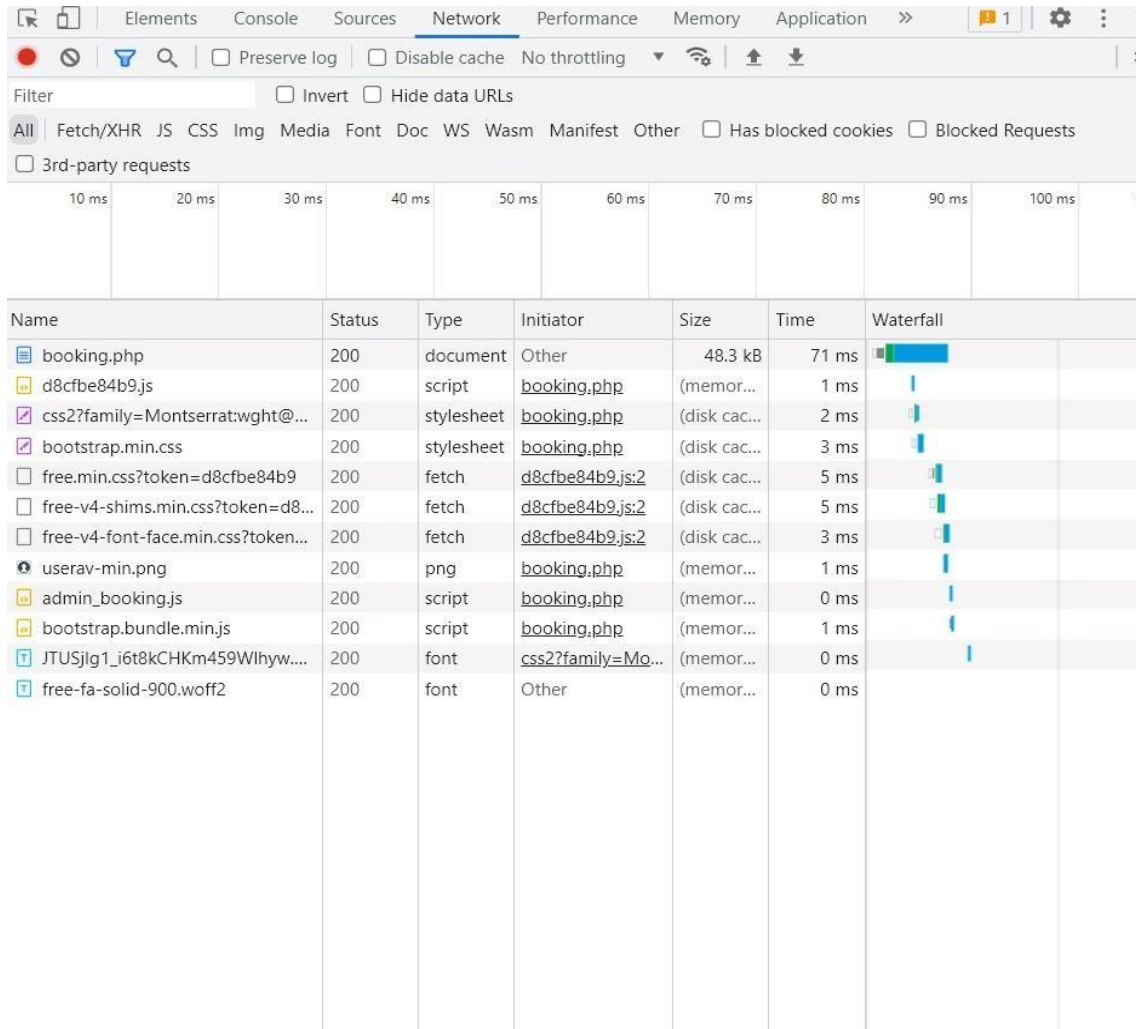
[ADD ROUTE DETAILS +](#)

ID	Via Cities	Bus	Departure Date	Departure Time	Cost	Actions
RT-9594562	TIRUPATI,CHENNAI	AP196543	2022-09-24	08:30:00	\$550	EDIT DELETE
RT-5189961	TIRUPATI,CHENNAI	CAS3300	2022-08-28	20:30:00	\$550	EDIT DELETE
RT-50877160	FLORIA,ARKBY	CAS3300	2021-10-19	10:30:00	\$118	EDIT DELETE
RT-	BELRITH,ARKBY	LLL7699	2021-10-20	13:50:00	\$166	EDIT

Summary Bottom-

Range: 0 - 2.0 min

Network of the website:



Name	Status	Type	Initiator	Size	Time	Waterfall
booking.php	200	document	Other	48.3 kB	71 ms	
d8cfbe84b9.js	200	script	booking.php	(memor...)	1 ms	
css2?family=Montserrat:wght@...	200	stylesheet	booking.php	(disk cac...)	2 ms	
bootstrap.min.css	200	stylesheet	booking.php	(disk cac...)	3 ms	
free.min.css?token=d8cfbe84b9	200	fetch	d8cfbe84b9.js:2	(disk cac...)	5 ms	
free-v4-shims.min.css?token=d8...	200	fetch	d8cfbe84b9.js:2	(disk cac...)	5 ms	
free-v4-font-face.min.css?token...	200	fetch	d8cfbe84b9.js:2	(disk cac...)	3 ms	
userav-min.png	200	png	booking.php	(memor...)	1 ms	
admin_booking.js	200	script	booking.php	(memor...)	0 ms	
bootstrap.bundle.min.js	200	script	booking.php	(memor...)	1 ms	
JTUSjlg1_j6t8kCHKm459Wlhyw...	200	font	css2?family=Mo...	(memor...)	0 ms	
free-fa-solid-900.woff2	200	font	Other	(memor...)	0 ms	

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <link rel="stylesheet" href="https://www.w3schools.com/html/styles.css">
```

```
</head>
```

```
<body>
```

```
<h1>This is a heading</h1>
```

```
<p>This is a paragraph.</p>
```

```
</body>
```

```
</html>
```

```
p { border: 2px solid  
powderblue; margin: 50px;  
}
```

linking php and javascript

```
<script type="text/javascript" src="myscript.php"></script>
```

Admin_signup javascript:

```
const signUpForm = document.querySelector("form"); let  
error = false; signUpForm.addEventListener("submit",  
validate);
```

```
const passwordInput = document.querySelector("#password");
```

```
passwordInput.addEventListener("change", validatePass);
```

```
function validatePass(evt)  
{  
    const errorSpan = document.querySelector("#passwordErr");  
  
    if(this.value.length < 8)  
    {  
        errorSpan.innerText = "Password should be more than 8 characters";  
        error = true;
```

```

    }
    else
errorSpan.innerText = "";
}

```

```

function validate(evt)
{
    const passwordInput = this.elements.password;    const
confPasswordInput = this.elements.confPassword;    const
errorSpan = document.querySelector("#confPassErr");

    if(passwordInput.value !== confPasswordInput.value){    errorSpan.innerText
= "Confirm Password and Password values should be of same length";
    evt.preventDefault();
    }

    else                                if(error)
    evt.preventDefault();
    else
    error = false;
}

```

Functions in PHP:

```
<?php    function
```

```
db_conne<?php    function
```

```
db_connect()
```

```
{
```

```
    $servername = 'localhost';
```

```
    $username = 'root';
```

```
    $password = '';
```

```
    $database = 'sbtbsphp';
```

```
    $conn = mysqli_connect($servername, $username, $password, $database);
```

```
    return $conn;
```

```
}
```

```
function exist_user($conn, $username)
```

```
{
```

```
    $sql = "SELECT * FROM `users` WHERE user_name='$username'";
```

```

        $result = mysqli_query($conn, $sql);

$num = mysqli_num_rows($result);

        if($num)

return true;

return false;

    }

function exist_routes($conn, $viaCities, $depdate, $deptime)

{

    $sql = "SELECT * FROM `routes` WHERE route_cities='$viaCities' AND
route_dep_date='$depdate' AND route_dep_time='$deptime'";

    $result = mysqli_query($conn, $sql);

$num = mysqli_num_rows($result);

    if($num)

    {

        $row = mysqli_fetch_assoc($result);

        return $row["id"];
    }
}

```

```

    }

return false;

}

function exist_customers($conn, $name, $phone)

{

    $sql = "SELECT * FROM `customers` WHERE customer_name='$name' AND
customer_phone='$phone'";

    $result = mysqli_query($conn, $sql);

    $num = mysqli_num_rows($result);

    if($num)

    {

        $row = mysqli_fetch_assoc($result);

return $row["customer_id"];

    }

return false; }

```

```

function exist_buses($conn, $busno)

{

    $sql = "SELECT * FROM `buses` WHERE bus_no='$busno'";


    $result = mysqli_query($conn, $sql);

    $num = mysqli_num_rows($result);

    if($num)

    {

        $row = mysqli_fetch_assoc($result);

    return $row["id"];

    }

    return false;

}


function exist_booking($conn, $customer_id, $route_id)

{

    $sql = "SELECT * FROM `bookings` WHERE customer_id='$customer_id' AND
route_id='$route_id'";

```

```

        $result = mysqli_query($conn, $sql);

$num = mysqli_num_rows($result);

    if($num)

    {

        $row = mysqli_fetch_assoc($result);

return $row["id"];

    }

return false;

    }


function bus_assign($conn, $busno)

{

    $sql = "UPDATE buses SET bus_assigned=1 WHERE bus_no='$busno'";

$result = mysqli_query($conn, $sql);

    }


function bus_free($conn, $busno)

{

```

```

        $sql = "UPDATE buses SET bus_assigned=0 WHERE bus_no='$busno'";

$result = mysqli_query($conn, $sql);

    }

function busno_from_routeid($conn, $id)

{

    $sql = "SELECT * from routes WHERE id=$id";

    $result = mysqli_query($conn, $sql);

    $row = mysqli_fetch_assoc($result);

    if($row)

        {

            return $row["bus_no"];

        }

    return false; }

```

```

function get_from_table($conn, $table, $primaryKey, $pKeyValue, $toget)

```

```

{

    $sql = "SELECT * FROM $table WHERE $primaryKey='$pKeyValue'";

    $result = mysqli_query($conn, $sql);

    $row = mysqli_fetch_assoc($result);

if($row)

    {

        return $row["$toget"];

    }

return false;

}

?> <?php    function

db_connect()

{

    $servername = 'localhost';

    $username = 'root';

    $password = "";

    $database = 'sbtbsphp';

```

```
$conn = mysqli_connect($servername, $username, $password, $database);  
  
return $conn;  
  
}
```

```
function exist_user($conn, $username)  
{  
  
    $sql = "SELECT * FROM `users` WHERE user_name='$username'";  
  
    $result = mysqli_query($conn, $sql);  
  
    $num = mysqli_num_rows($result);  
  
    if($num)  
  
return true;  
  
return false;  
  
}
```

```
function exist_routes($conn, $viaCities, $depdate, $deptime)  
  
{
```

```
$sql = "SELECT * FROM `routes` WHERE route_cities='$viaCities' AND  
route_dep_date='$depdate' AND route_dep_time='$deptime'";
```

```
$result = mysqli_query($conn, $sql);
```

```
$num = mysqli_num_rows($result);
```

```
if($num)
```

```
{
```

```
    $row = mysqli_fetch_assoc($result);
```

```
    return $row["id"];
```

```
}
```

```
return false;
```

```
}
```

```
function exist_customers($conn, $name, $phone)
```

```
{
```

```
    $sql = "SELECT * FROM `customers` WHERE customer_name='$name' AND  
customer_phone='$phone'";
```

```

        $result = mysqli_query($conn, $sql);

$num = mysqli_num_rows($result);

    if($num)

    {

        $row = mysqli_fetch_assoc($result);

return $row["customer_id"];

    }

return false;

    }

function exist_buses($conn, $busno)

{

    $sql = "SELECT * FROM `buses` WHERE bus_no='$busno'";

    $result = mysqli_query($conn, $sql);

$num = mysqli_num_rows($result);

    if($num)

    {

```

```

        $row = mysqli_fetch_assoc($result);

return $row["id"];

    }

return false;

}

function exist_booking($conn, $customer_id, $route_id)

{

    $sql = "SELECT * FROM `bookings` WHERE customer_id='$customer_id' AND
route_id='$route_id'";

    $result = mysqli_query($conn, $sql);

    $num = mysqli_num_rows($result);

    if($num)

    {

        $row = mysqli_fetch_assoc($result);

return $row["id"];

    }

return false;

```

```
}
```

```
function bus_assign($conn, $busno)
```

```
{
```

```
    $sql = "UPDATE buses SET bus_assigned=1 WHERE bus_no='$busno'";
```

```
$result = mysqli_query($conn, $sql);
```

```
}
```

```
function bus_free($conn, $busno)
```

```
{
```

```
    $sql = "UPDATE buses SET bus_assigned=0 WHERE bus_no='$busno'";
```

```
    $result = mysqli_query($conn, $sql);
```

```
}
```

```
function busno_from_routeid($conn, $id)
```

```
{
```

```
    $sql = "SELECT * from routes WHERE id=$id";
```

```
    $result = mysqli_query($conn, $sql);
```

```

$row = mysqli_fetch_assoc($result);

if($row)
{
    return $row["bus_no"];
}

return false;
}

function get_from_table($conn, $table, $primaryKey, $pKeyValue, $toget)
{
    $sql = "SELECT * FROM $table WHERE $primaryKey='$pKeyValue'";

    $result = mysqli_query($conn, $sql);

    $row = mysqli_fetch_assoc($result);

if($row)
{

```

```

        return $row["$toget"];

    }

return false;

}

?>ct()

{

    $servername = 'localhost';

    $username = 'root';

    $password = "";

    $database = 'sbtbsphp';


    $conn = mysqli_connect($servername, $username, $password, $database);
return $conn;

}


function exist_user($conn, $username)

{

    $sql = "SELECT * FROM `users` WHERE user_name='$username'";

```

```

        $result = mysqli_query($conn, $sql);

$num = mysqli_num_rows($result);

        if($num)

return true;

return false;

    }

function exist_routes($conn, $viaCities, $depdate, $deptime)

{

    $sql = "SELECT * FROM `routes` WHERE route_cities='$viaCities' AND
route_dep_date='$depdate' AND route_dep_time='$deptime'";

    $result = mysqli_query($conn, $sql);

$num = mysqli_num_rows($result);

    if($num)

    {

        $row = mysqli_fetch_assoc($result);

```

```

        return $row["id"];

    }

return false;

}

function exist_customers($conn, $name, $phone)

{

    $sql = "SELECT * FROM `customers` WHERE customer_name='$name' AND
customer_phone='$phone'";

    $result = mysqli_query($conn, $sql);

    $num = mysqli_num_rows($result);

    if($num)

    {

        $row = mysqli_fetch_assoc($result);

        return $row["customer_id"];

    }

return false;

}

```

```

function exist_buses($conn, $busno)

{

    $sql = "SELECT * FROM `buses` WHERE bus_no='$busno'";


    $result = mysqli_query($conn, $sql);

    $num = mysqli_num_rows($result);

    if($num)

    {

        $row = mysqli_fetch_assoc($result);

        return $row["id"];

    }

return false;

}


function exist_booking($conn, $customer_id, $route_id)

{

    $sql = "SELECT * FROM `bookings` WHERE customer_id='$customer_id' AND
route_id='$route_id'";

```

```

        $result = mysqli_query($conn, $sql);

$num = mysqli_num_rows($result);

        if($num)

        {

                $row = mysqli_fetch_assoc($result);

return $row["id"];

        }

return false;    }

```

```

function bus_assign($conn, $busno)

{

        $sql = "UPDATE buses SET bus_assigned=1 WHERE bus_no='$busno'";

$result = mysqli_query($conn, $sql);

}

```

```

function bus_free($conn, $busno)

{

```

```

        $sql = "UPDATE buses SET bus_assigned=0 WHERE bus_no='$busno'";

$result = mysqli_query($conn, $sql);

    }

function busno_from_routeid($conn, $id)

{

    $sql = "SELECT * from routes WHERE id=$id";

    $result = mysqli_query($conn, $sql);

    $row = mysqli_fetch_assoc($result);

    if($row)

    {

        return $row["bus_no"];

    }

    return false;

}

```

```

function get_from_table($conn, $table, $primaryKey, $pKeyValue, $toget)
{
    $sql = "SELECT * FROM $table WHERE $primaryKey='$pKeyValue'";

    $result = mysqli_query($conn, $sql);

    $row = mysqli_fetch_assoc($result);

    if($row)
    {
        return $row["$toget"];
    }

    return false;
}

?>

```

3.9 Creation of Search Box

We created search box in the routes page if we search the name of destination and record in the text area if the entry is present in the database present in phpmyadmin and inside the specified table it shows the id number, bus number and the route_cities in the form of tables

How to make Search box & filter data in HTML Table from Database in PHP MySQL

<<<

id	bus_no	route_cities
61	TN73452	CHENNAI,HYDERABAD
63	TS56732	CHENNAI,HYDERABAD
72	TS19543	CHENNAI,HYDERABAD

Performance

Web performance is all about making web sites fast, including making slow processes *seem* fast. Does the site load quickly, allow the user to start interacting with it quickly, and offer reassuring feedback if something is taking time to load .

Web performance is the objective measurement and perceived user experience of a web site or application. This includes the following major areas: **Reducing overall load time, Making the site usable as soon as possible, Smoothness and interactivity.**

Latency: latency is the time it takes for your website assets to travel from the server to a user's computer. There is overhead involved in establishing TCP and HTTP connections, and some unavoidable latency in pushing the request and response bytes back and forth across the network, but there are certain ways to reduce latency (e.g. reducing the number of HTTP request you make by downloading less files

Thing to improve the performance of a website 1. Use a Content Delivery Network (CDN)

2. Move your website to a better host.

3. Optimize the size of images on your website.
4. Reduce the number of plugins.
5. Minimize the number of JavaScript and CSS files.
6. Use website caching.
7. Implement Gzip Compression. 8. Database optimization in CMS.

CHAPTER 4

RESULTS AND DISCUSSION

Online ticket booking system is an application where the customer can book a ticket online and 24*7 hours a day from anyplace in the world. Customers can also interact with the ticket booking website to know any other details they want. Online ticket booking system has been developed successfully. System performance is also found to be satisfactory. This is a user-friendly application. Through this application, the cost can be reduced and efficiency is increased. There are several procedures that can be selected by customers. With the help of this application customers can book tickets can know the status of a bus o, a Source station and destination can be chosen according to their choice, can select seats, can choose the. Online ticket booking system is very big to maintain but it always provides excellent facilities to accomplish the goal and help to reduce a complex paperwork process through a mobile application. This can be a benefit using online ticket booking system application rather searching on several websites. With the help of online ticket booking system records are maintained and the database is updated with time to time. Through Online ticket

booking system, technologies and features have been introduced .The bus ticket booking system can be used to book tickets according to our wish.

CHAPTER 5

SUMMARY AND CONCLUSION

The web application for online bus ticket reservation is successfully implemented. The system making use of PHP, HTML, CSS ,JavaScript technologies. The system eliminates manual ticket booking and books tickets regardless of place. The Bus ticket booking system is created and we book our tickets at any time 24*7*365. It does not have any hidden fairs.The website is easy to handle for the people who have even a little knowledge about the computer. The bus ticket booking system can be used to book ticket according to his wish .If a ticket is already booked then the same seat number will not be available to other at the same time of journey will allocated to a single person .so that it will not raise any conflict for seat..The user can book ticket previously before a week so that he can plan according to his ticket and can go to his journey with peaceful mind .Database is used to store the passengers details .The customer is given with the PNR number by the administrator it is used for enquiry .it is given after booking the seat for his journey.

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