

**A**  
**Project Report**

**On**

**“Application for Bus Booking Management System”**

**Submitted To**

**Shivaji University, Kolhapur**

In Partial Fulfillment for the Degree of

**Bachelor of Computer Application (Sem-VI)**

**By**

**Mr. Omkar Vilas Mote**

**Mr. Aditya Sanjay Jagtap**

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Under The Guidance of

**Shri. S. G. Teli (M.C.A.)**

Through



**The Director,**

**Deccan Education Society's**

**Chintamanrao Institute of Management Development &  
Research, Sangli.**

**In The Year**

**2023-2024**



**Deccan Education Society's**  
**Chintamanrao Institute of Management Development & Research, Sangli.**  
**Department of Computer Application**

**CERTIFICATE**

This is to certify that the project report entitled "**Application for Bus Booking Management System**" is record of project work, carried out in this Institute by **Mr. Omkar Vilas Mote**, **Mr. Aditya Sanjay Jagtap** and **Mr. Sumit Annappa Jangam** in the partial fulfillment of award of **Bachelor of Computer Application (Sem-VI)** as laid down by Shivaji University, Kolhapur.

This report presents their sincere work carried out under my guidance.

Place: Sangli

Date: 23 / 03 / 2024

Shri. S. G. Teli  
Project Guide

Dr. Sweta S. Metha  
I/c Director

**Examiner:** 1) \_\_\_\_\_

2) \_\_\_\_\_

## **DECLARATION**

To,

The Registrar,

Shivaji University,

Kolhapur.

Sir,

We undersigned, **Mr. Omkar Vilas Mote**, **Mr. Aditya Sanjay Jagtap** and **Mr. Sumit Annappa Jangam** here by to declare that, the project report “**Application for Bus Booking Management System**” submitted by us under the guidance of **Shri. S. G. Teli** is our original work. We have not reproduced any information about from any report submitted to Shivaji University, Kolhapur this year or any of the previous years.

We undersigned that any such coping is liable to the punishment in a way that University Authorities deem fit.

Place: Sangli.

Date: 23 / 03 /2024

Exam Seat No.	Name of Member	Signature
<b>12104</b>	<b>Mr. Omkar Vilas Mote</b>	
<b>12093</b>	<b>Mr. Aditya Sanjay Jagtap</b>	
<b>12076</b>	<b>Mr. Sumit Annappa Jangam</b>	

## **ACKNOWLEDGEMENT**

We express a very good & greatest moment of my life to put forward this project named **“Application for Bus Booking Management System”** With the Submission of this project we would like to thank here as we named the people who given their valuable time to accomplish this project.

At the start, we glad to bow before our guide **Shri. S. G. Teli**. The contributions made by the whole faculty members of our college & staff, we also thank full to our friends & well-wishers, who are responsible for the progress of this project.

Place : Sangli

Date : 23 / 03 / 2024

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## CHAPTER 1

# Introduction to Project

## 1. Introduction to Project

### 1.1 Introduction

Application for Bus Booking management system solution designed to provide customers with a personalized easy-to-utilize user experience for booking bus seat online. It stores customers' personal data records, scheduled routes, frequent trips, drop points, and other information.

A streamlined and efficient bus booking platform designed to simplify the process of reserving bus seat booking. Now anyone, anytime and from anywhere, can book their desired destination seat online. Bus reservation system, also known as transportation reservation system, and the primary objectives:

- Smooth The User Experience.
- Faster Online Bus Seat Booking.
- Store Users Information (Dropping point, Last Trip history, Contact No, Scheduled date).
- Interactive Seat Map.
- Good Customer Feedbacks.

We've built Application for Bus Booking management system using HTML, CSS, JavaScript, PHP, and MySQL, making it easy for you to book bus seat hassle-free. Gone are the days of long queues and manual bookings, Application for Bus Booking management system empowers users to effortlessly browse routes, select seats, and book a seat from the comfort of their own devices. interactive seat map, users can make informed decisions and enjoy peace of mind throughout the booking process.

### 1.2 Introduction of Existing System

- Travelers must go to bus terminals or travel agencies to book tickets.
- Booking involves filling out paper forms with personal details.
- Long queues at terminals or agencies are common due to the lack of online booking.
- Payment is typically accepted only in cash, limiting options for travelers.
- The process is time-consuming, involving multiple steps and waiting periods.
- Booking availability and processing times depend on staff presence, leading to potential delays.
- Making changes or cancellations to bookings often requires revisiting the terminal or agency, adding to inconvenience and time wastage.

### 1.3 Need and scope of System

- **Streamlining bus booking processes:** To eliminate the hassle of manual booking systems and provide an efficient digital platform for users.
- **Enhanced accessibility:** Enable users to book bus tickets from anywhere at any time, reducing the need to physically visit booking offices.
- **User registration and authentication:** Allow users to create accounts and authenticate their identities securely.
- **Booking management:** Allow users to search for available buses, select seats, make reservations, and receive booking confirmations.

### 1.4 Organization Profile

The "Application for Bus Booking Management System" revolutionizes the way bus reservations are handled, providing a seamless and user-friendly experience for both passengers and administrators alike. With its intuitive interface, passengers can effortlessly register, browse routes, check seat availability, and book tickets with just a few clicks. Administrators benefit from powerful tools for route management, ticket tracking, and real-time analytics, enabling them to optimize operations and enhance customer satisfaction. By integrating secure payment gateways and offering robust customer support features, the system ensures a safe and reliable booking process. With its focus on efficiency, transparency, and convenience, the Bus Booking Management System redefines the standards for bus ticketing, promising a smoother journey for all.

## CHAPTER 2

# Proposed System

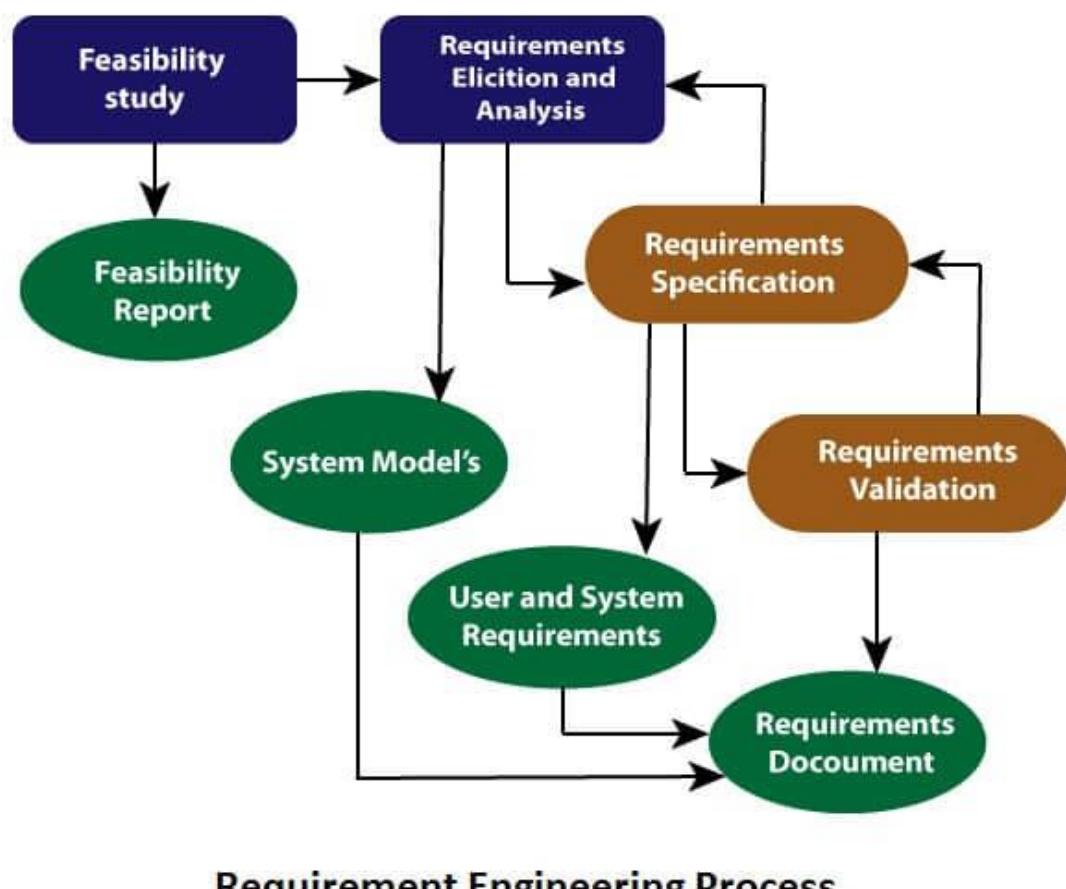
## 2. Proposed System

### 2.1 Objectives

- **Efficient Booking Process:** Developed a system that streamlines the bus booking process for both customers and administrators, reducing the time and effort required to make and manage reservations.
- **User-Friendly Interface:** Designed an intuitive interface that is easy to navigate for customers to book tickets and for administrators to manage bookings, routes, and other system parameters.
- **Real-Time Availability:** Implemented a feature that allows customers to view real-time availability of buses, seats, and schedules, enhancing the booking experience and reducing the likelihood of overbooking.
- **Feedback Mechanism:** Included a feedback mechanism for customers to provide reviews, enabling administrators to improve services based on user feedback.
- **Admin Dashboard:** Developed a comprehensive dashboard for administrators to monitor bookings, manage routes, adjust fares, and generate reports to gain insights into the system's performance.

## 2.2 Requirement Engineering:

**Requirements Engineering (RE)** refers to the process of defining, documenting, and maintaining requirements in the engineering design process. Requirement engineering provides the appropriate mechanism to understand what the customer desires, analyzing the need, and assessing feasibility, negotiating a reasonable solution, specifying the solution clearly, validating the specifications and managing the requirements as they are transformed into a working system. Thus, requirement engineering is the disciplined application of proven principles, methods, tools, and notation to describe a proposed system's intended behavior and its associated constraints.

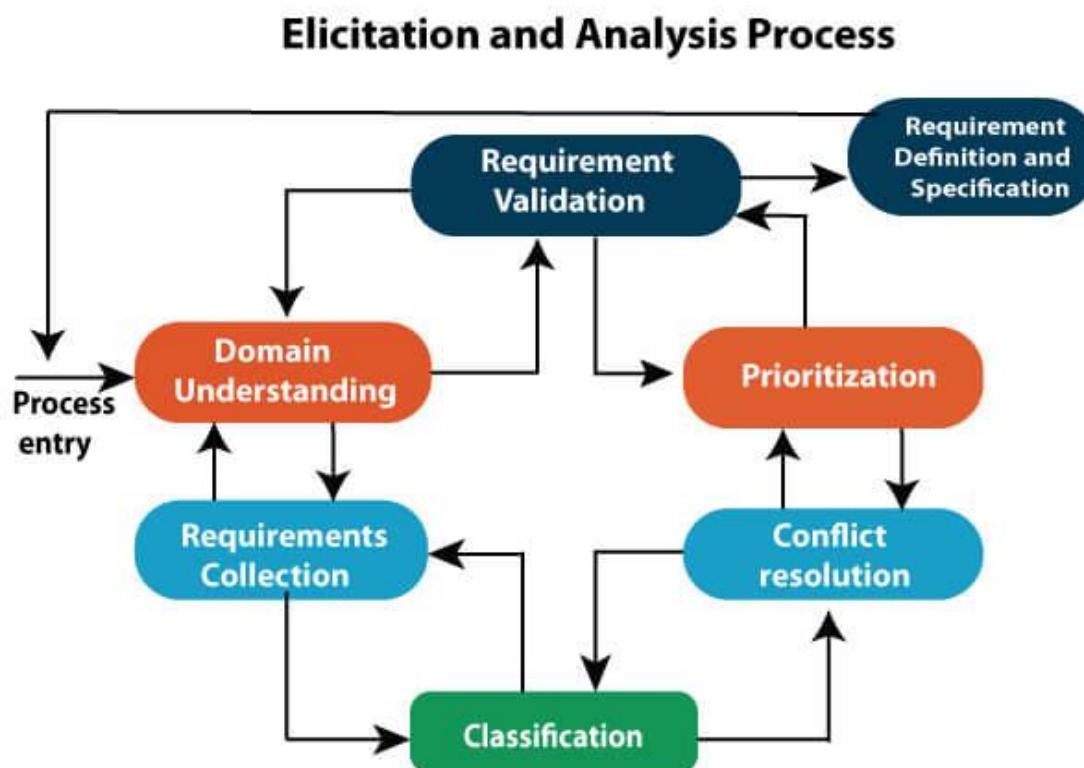


### Feasibility Study :

The objective behind the feasibility study is to create the reasons for developing the software that is acceptable to users, flexible to change and conformable to established standards.

- **Technical Feasibility** - Technical feasibility evaluates the current technologies, which are needed to accomplish customer requirements within the time and budget.
- **Operational Feasibility** - Operational feasibility assesses the range in which the required software performs a series of levels to solve business problems and customer requirements.
- **Economic Feasibility** - Economic feasibility decides whether the necessary software can generate financial profits for an organization.

### Requirement Elicitation and Analysis:



This is also known as the **gathering of requirements**. Here, requirements are identified with the help of customers and existing systems processes, if available. Analysis of requirements starts with requirement elicitation. The requirements are analyzed to identify inconsistencies, defects, omission, etc. We describe requirements in terms of relationships and also resolve conflicts if any.

### **Problems of Elicitation and Analysis:**

- Getting all, and only, the right people involved.
- Stakeholders often don't know what they want
- Stakeholders express requirements in their terms.
- Stakeholders may have conflicting requirements.
- Requirement change during the analysis process.
- Organizational and political factors may influence system requirements.

### **Software Requirement Specification:**

Software requirement specification is a kind of document which is created by a software analyst after the requirements collected from the various sources - the requirement received by the customer written in ordinary language. It is the job of the analyst to write the requirement in technical language so that they can be understood and beneficial by the development team.

The models used at this stage include ER diagrams, data flow diagrams (DFDs), function decomposition diagrams (FDDs), data dictionaries, etc.

- **Data Flow Diagrams:** Data Flow Diagrams (DFDs) are used widely for modeling the requirements. DFD shows the flow of data through a system. The system may be a company, an organization, a set of procedures, a computer hardware system, a software system, or any combination of the preceding. The DFD is also known as a data flow graph or bubble chart.

- **Data Dictionaries:** Data Dictionaries are simply repositories It Store information about all data items defined in DFDs. At the requirements stage, the data dictionary should at least define customer data items, to ensure that the customer and developers use the same definition and terminologies.
- **Entity-Relationship Diagrams:** Another tool for requirement specification is the entity-relationship diagram, often called an "*E-R diagram.*" It is a detailed logical representation of the data for the organization and uses three main constructs i.e. data entities, relationships, and their associated attributes.

### **Software Requirement Validation:**

After requirement specifications developed, the requirements discussed in this document are validated. The user might demand illegal, impossible solution or experts may misinterpret the needs.

Requirements can be checked against the following conditions -

- If they can practically implement
- If they are correct and as per the functionality and specially of software
- If there are any ambiguities
- If they are full
- If they can describe

### **Software Requirement Management:**

Requirement management is the process of managing changing requirements during the requirements engineering process and system development. New requirements emerge during the process as business needs a change, and a better understanding of the system is developed. The priority of requirements from different viewpoints changes during development process. The business and technical environment of the system changes during the development.

## 2.3 Requirement Gathering:

To gather your requirements, use the following six-step process. Once you're finished, you should have a comprehensive requirements document outlining the resources you need to move forward through the project phases.

### Step 1: Assign Roles

The first step in requirements gathering is to assign roles in your project. This is when you identify your project stakeholders. A stakeholder is anyone invested in the project, whether they're internal or external partners. For example, a customer is an external stakeholder, while a department manager or board member is an internal stakeholder. Identifying these roles first will help you determine who should analyze your project scope later on. Other roles include the project manager, project administrator, designers, product testers, and developers. These people can help you identify the requirements and resources you need in order to hit your project goals.

While you may feel tempted to jump headfirst into your project and start listing all the things you know you'll need, this can be a mistake. Slow down and stick to the process and you'll have a better chance of preventing project risk.

### Step 2: Meet with stakeholders

Once you've identified your project stakeholders, meet with them to get an idea of what they're hoping to get out of the project. Understanding what stakeholders want matters because they're ultimately the ones you're creating your deliverables for.

Some questions you can ask include:

- What is your goal for this project?
- What do you think would make this project successful?
- What are your concerns about this project?
- What do you wish this product or service would do that it doesn't already?
- What changes would you recommend about this project?

The stakeholders are the people you're ultimately developing the project for, so you should ask them questions that can help you create your list of requirements.

### Step 3: Gather and document

Step three in the process happens at the same time as step two. You'll gather information as you ask your stakeholders questions. The goal is to document everything you can, so have all of the answers you need to start your project.

Use a project management tool to collect and document this information. That way, you can keep your project plan, project requirements, and project communication all in one place. Some examples of what you might document include:

- Stakeholder answers to interview questions
- Stakeholder questions
- Stakeholder requests
- Stakeholder comments
- Questions and comments that arise during interviews

You don't have to use every answer you receive, but having everything documented can help you see all of your stakeholders' perspectives, which will help you with requirements management.

### Step 4: List assumptions and requirements

Now that you've completed the intake process, create your requirements management plan based on the information you've gathered. Consider the questions you initially set out to answer during the requirements gathering process. Then, use them to create your requirements goals, including:

- **Length of Project Schedule :** You can map out your project timeline using a Gantt chart and use it to visualize any project requirements that depend on project milestones. Some requirements will apply for the full duration of the project, whereas others may only apply during distinct project phases. For example, you'll need a specific budget for team member salaries throughout the entire project, but you may only need specific material during the last stage of your project timeline.
- **People Involved In The Project :** Identify exactly which team members will be involved in your project, including how many designers, developers, or managers you'll need to execute every step. People are part of your project requirements because if you don't have the team members you need, you won't be able to complete the project on time.
- **Project Risks :** Understanding your project risks is an important part of identifying project requirements. Use a risk register to determine which risks are of highest priority, such as

stakeholder feedback, timeline delays, and lack of budget. Then, schedule a brainstorming session with your team to figure out how to prevent these risks. Like smart goals, your project requirements should be actionable, measurable, and quantifiable. Try to go into as much detail as possible when listing out your project budget, timeline, required resources, and team.

### **Step 5: Get approval**

Once you formalize your project requirements, you'll need approval from stakeholders to ensure you're meeting user needs. Encouraging clear communication can also prevent scope creep by ensuring your stakeholders know the limits of the project from the beginning. You can then proceed with your implementation plan, which may include acquiring resources and assembling a team.

### **Step 6: Monitor progress**

The last part of the process is monitoring the progress of your project. You can use project management software to track your project budget and other requirements as you move through project execution. The benefit of project management software is that you can see changes to your project in real-time and take immediate action when things go awry.

## 2.4 SRS (Front end and Back End feature)

### ❖ Frontend Features:

#### 1. HTML (Hypertext Markup Language):

- Responsible for structuring the content of the web pages.
- Utilized to create the layout and design elements of the user interface.
- Defines the structure of the webpage using tags such as <head>, <body>, <div>, <p>, etc.
- Provides semantic markup for elements, enhancing accessibility and search engine optimization (SEO).
- Supports embedding of multimedia content such as images, videos, and audio.

#### 2. CSS (Cascading Style Sheets):

- Used for styling and formatting HTML elements.
- Defines the appearance, layout, and visual aspects of the web pages.
- Allows for customization of colours, fonts, margins, padding, and other visual properties.
- Enhances the appearance and layout of web pages, ensuring a consistent design across different devices and screen sizes.
- Supports the use of selectors to target specific elements and apply styles selectively.
- Facilitates the creation of responsive web designs that adapt to various viewport sizes.

#### 3. JavaScript (JS):

- Provides interactivity and dynamic behavior to the web pages.
- Enables client-side scripting for functionalities such as form validation, animations, and event handling.
- Allows for manipulation of HTML elements, CSS styles, and DOM (Document Object Model) manipulation.
- Supports the use of libraries and frameworks such as jQuery, React, and Angular for simplifying complex tasks and enhancing development efficiency.
- Enables asynchronous programming, AJAX (Asynchronous JavaScript and XML) requests, and interaction with server-side APIs.

❖ **Backend Features:**

**1. PHP (Hypertext Preprocessor):**

- Server-side scripting language used for backend development.
- Handles server-side logic and interacts with the database to process user requests.
- PHP interacts with the database and other server components to perform operations such as user authentication, data validation, and session management.
- PHP is widely used for building web applications and integrating with various web frameworks and content management systems.

**2. MySQL (Database):**

- MySQL is a relational database management system (RDBMS) used for data storage and retrieval.
- Stores user information, booking details, and other application data.
- Utilized for creating, querying, and managing database operations such as INSERT, SELECT, UPDATE, and DELETE.
- MySQL supports SQL (Structured Query Language) for creating, querying, and managing database operations.
- MySQL ensures data integrity, security, and scalability, making it a popular choice for web application development.

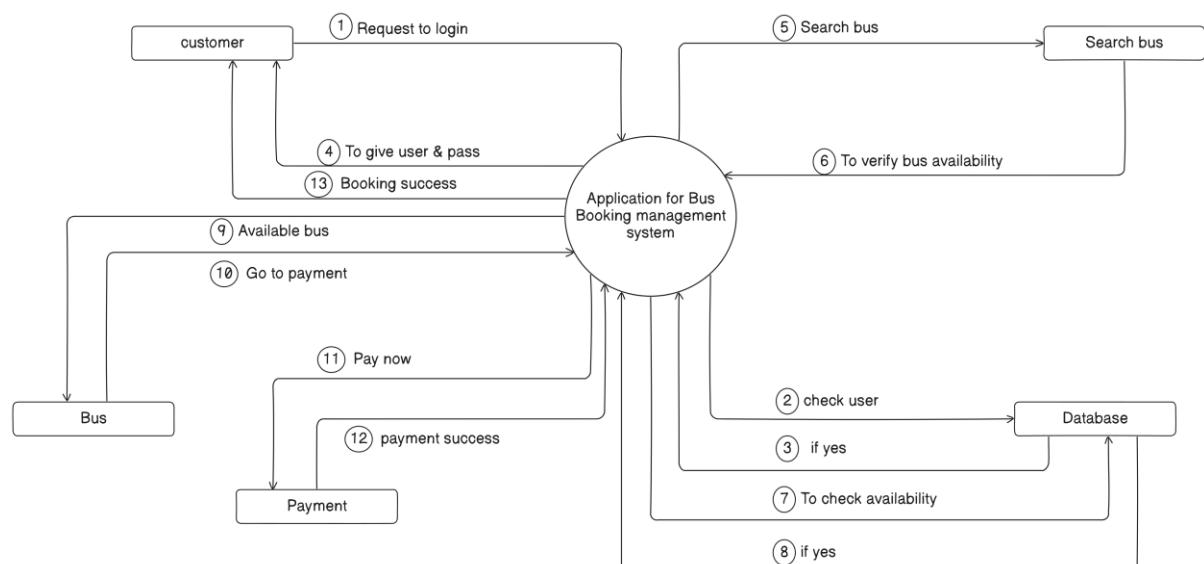
## CHAPTER 3

# System Diagrams

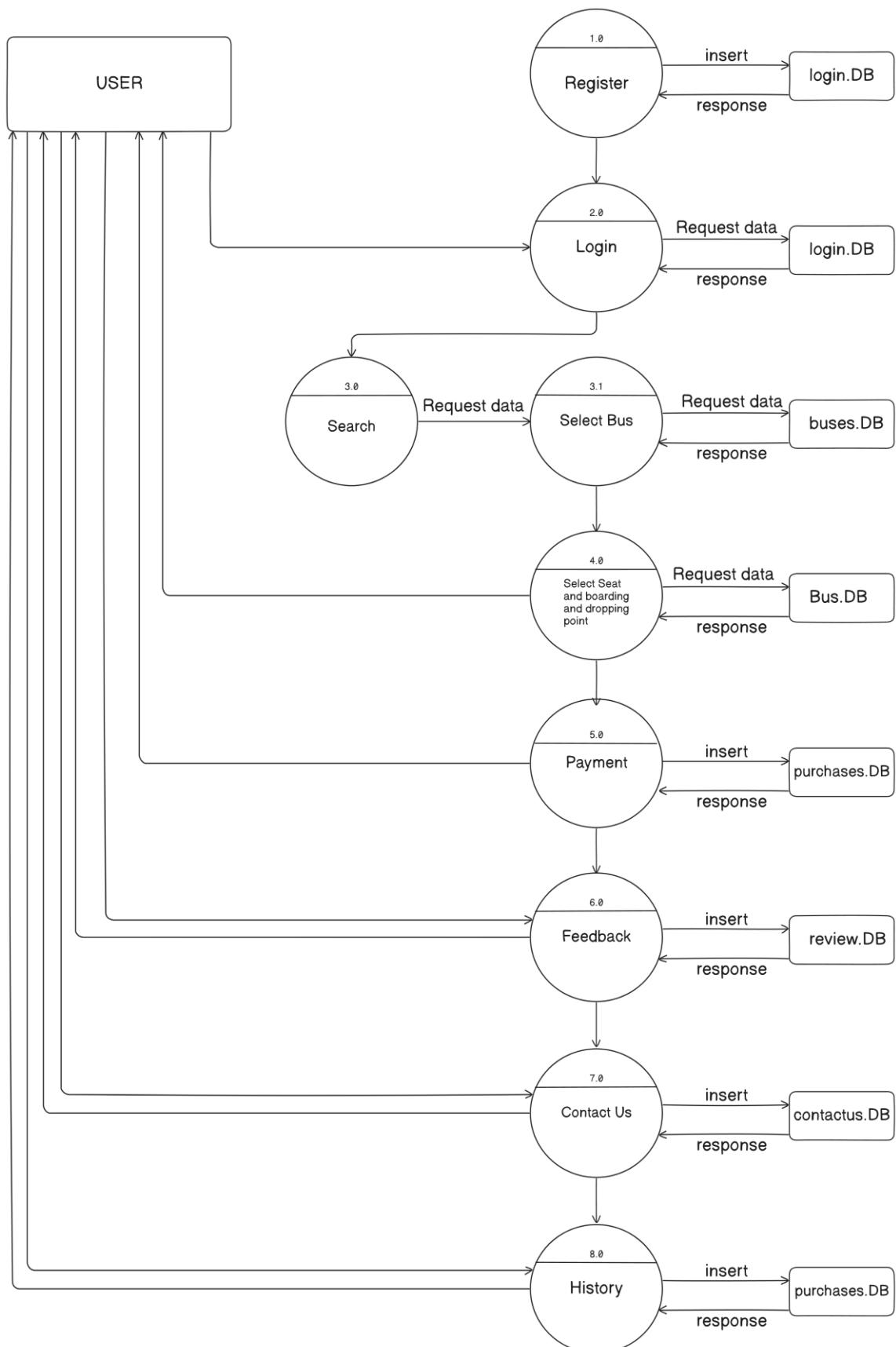
### 3. System Diagrams

#### 3.1 DFD (Data Flow Diagram)

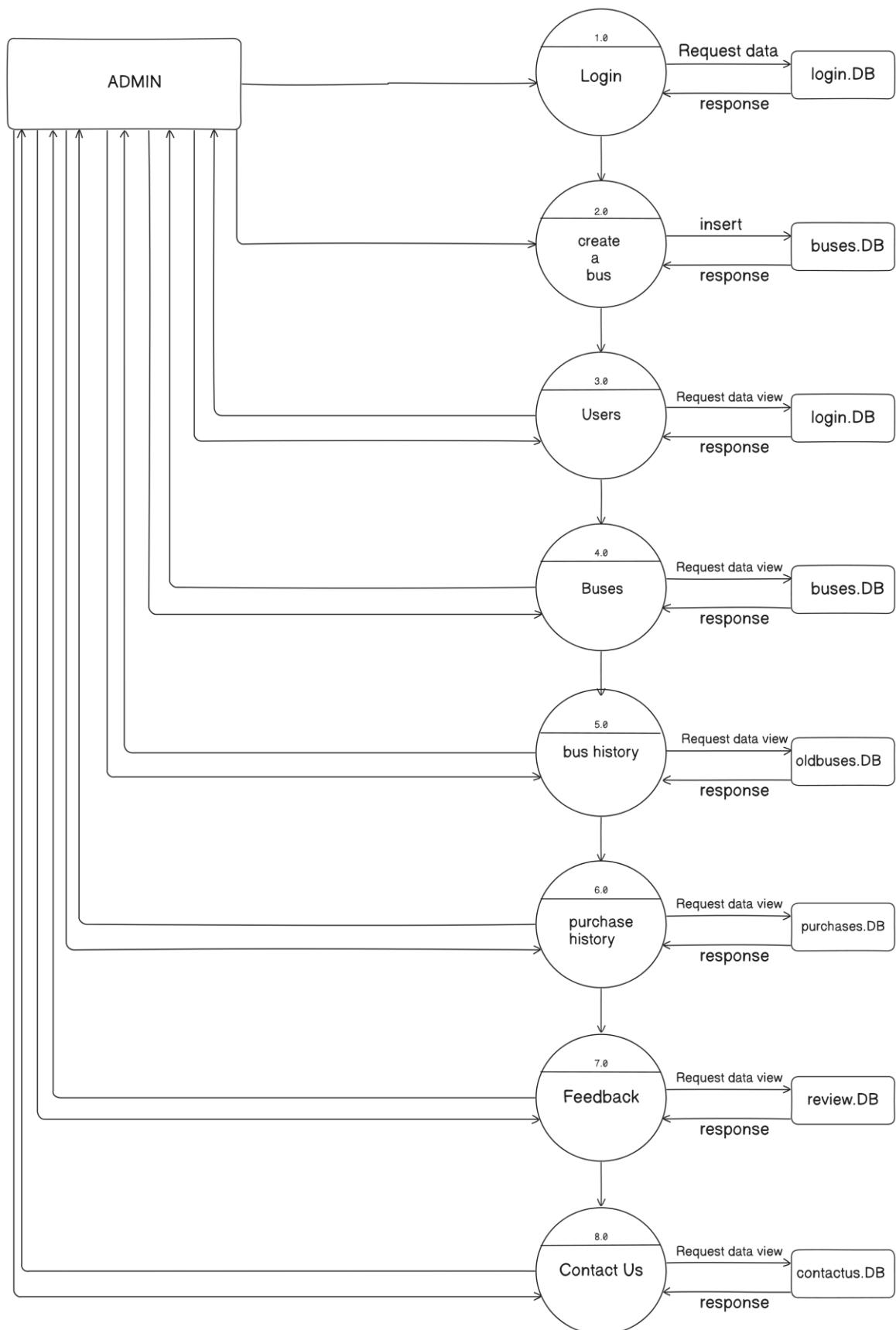
##### ❖ Zero level DFD



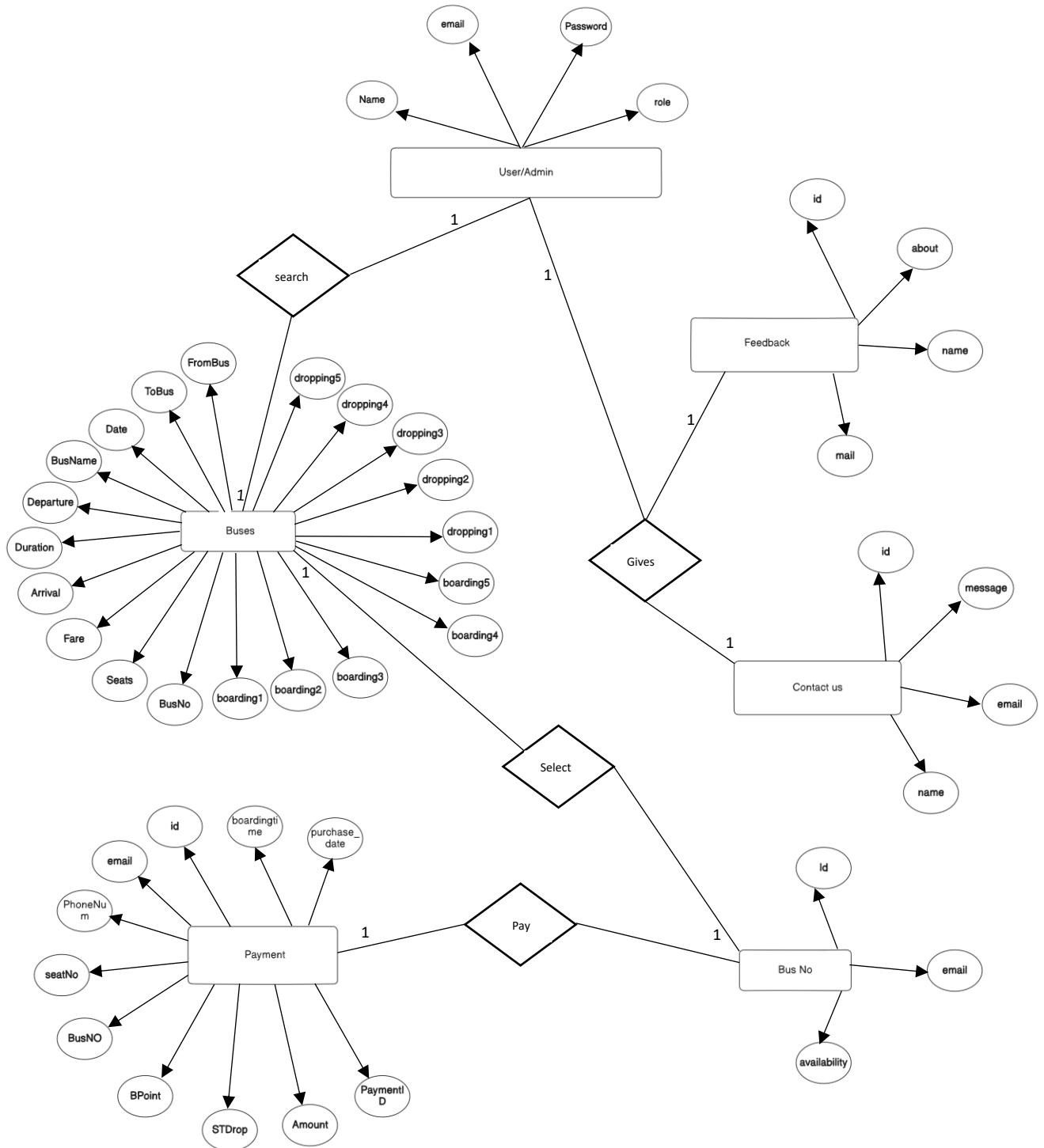
❖ First level DFD (USER)



❖ First level DFD (ADMIN)



### 3.2 Entity Relationship Diagram



### 3.3 Hardware Requirement

- Processor: Intel(R) Core (TM) i3-7020U CPU @ 2.30GHz 2.30 GHz.
- Hard Disk: - 256GB.
- RAM: - 4 GB.
- System Type: - 64-bit operating system, x64-based processor.
- Monitor.
- Keyboard.
- Mouse.

### 3.4 Software requirement

- Web Server :- Apache, or XAMPP.
- PHP:- PHP language.
- Database Server:- MySQL or MariaDB, with phpMyAdmin for database management.
- Operating System: - Windows 8 or Above.
- Web browser: - Microsoft edge, Chrome, Firefox, Brave.
- Text Editor: - Microsoft Visual Studio 2022.

## CHAPTER 4

# System Design

## 4. System Design

### 4.1 Database Design

#### a) Table Name: login (User/Admin)

Sr. No	Field Name	Data Type	Description
1.	Name	varchar(25)	It Store a your Name.
2.	email	varchar(255)	It Store a your Mail.
3.	Password	varchar(25)	It Store a your Password
4.	role	varchar(25)	It Store a role admin or member.

#### b) Table Name: buses

Sr. No	Field Name	Data Type	Description
1.	FromBus	varchar(255)	It Store a From Bus.
2.	ToBus	varchar(255)	It Store a To Bus.
3.	Date	date	It Store a Date.
4.	BusName	varchar(255)	It Store a Bus Name.
5.	Departure	decimal(10,2)	It Store a Departure.
6.	Duration	decimal(10,2)	It Store a Duration.
7.	Arrival	decimal(10,2)	It Store a Arrival.
8.	Fare	decimal(10,2)	It Store a Fare/amount.
9.	Seats	int(11)	It Store a Seats.
10.	BusNo	varchar(255)	It Store a Bus Number.
11.	boarding1	varchar(255)	It Store a boarding Point.
12.	boarding2	varchar(255)	It Store a boarding Point.
13.	boarding3	varchar(255)	It Store a boarding Point.
14.	boarding4	varchar(255)	It Store a boarding Point.
15.	boarding5	varchar(255)	It Store a boarding Point.
16.	dropping1	varchar(255)	It Store a dropping Point.
17.	dropping2	varchar(255)	It Store a dropping Point.
18.	dropping3	varchar(255)	It Store a dropping Point.
19.	dropping4	varchar(255)	It Store a dropping Point.
20.	dropping5	varchar(255)	It Store a dropping Point.

**c) Table Name: oldbuses**

Sr. No	Field Name	Data Type	Description
1.	FromBus	varchar(255)	It Store a From Bus.
2.	ToBus	varchar(255)	It Store a To Bus.
3.	Date	date	It Store a Date.
4.	BusName	varchar(255)	It Store a Bus Name.
5.	Departure	decimal(10,2)	It Store a Departure.
6.	Duration	decimal(10,2)	It Store a Duration.
7.	Arrival	decimal(10,2)	It Store a Arrival.
8.	Fare	decimal(10,2)	It Store a Fare/amount.
9.	Seats	int(11)	It Store a Seats.
10.	BusNo	varchar(255)	It Store a Bus Number.
11.	boarding1	varchar(255)	It Store a boarding Point.
12.	boarding2	varchar(255)	It Store a boarding Point.
13.	boarding3	varchar(255)	It Store a boarding Point.
14.	boarding4	varchar(255)	It Store a boarding Point.
15.	boarding5	varchar(255)	It Store a boarding Point.
16.	dropping1	varchar(255)	It Store a dropping Point.
17.	dropping2	varchar(255)	It Store a dropping Point.
18.	dropping3	varchar(255)	It Store a dropping Point.
19.	dropping4	varchar(255)	It Store a dropping Point.
20.	dropping5	varchar(255)	It Store a dropping Point.

**d) Table Name: purchases**

Sr. No	Field Name	Data Type	Description
1.	id	int(11)	It Store a ID.
2.	email	varchar(255)	It Store a mail address.
3.	PhoneNum	varchar(20)	It Store a phone number
4.	seatNo	varchar(255)	It Store a Seat number.
5.	BusNO	varchar(20)	It Store a Bus number.
6.	BPoint	varchar(255)	It Store a boarding point.
7.	STDrop	varchar(255)	It Store a dropping point.
8.	Amount	decimal(10,2)	It Store a Amount.
9.	PaymentID	varchar(255)	It Store a transaction ID.
10.	purchase_date	timestamp	It Store a purchase date.
11.	boardingtime	decimal(10,2)	It Store a boarding Time.

**e) Table Name: contactus**

Sr. No	Field Name	Data Type	Description
1.	id	int(11)	It Store a ID.
2.	email	varchar(25)	It Store a mail.
3.	name	varchar(40)	It Store a name of user.
4.	message	text	It Store a message.

**f) Table Name: review**

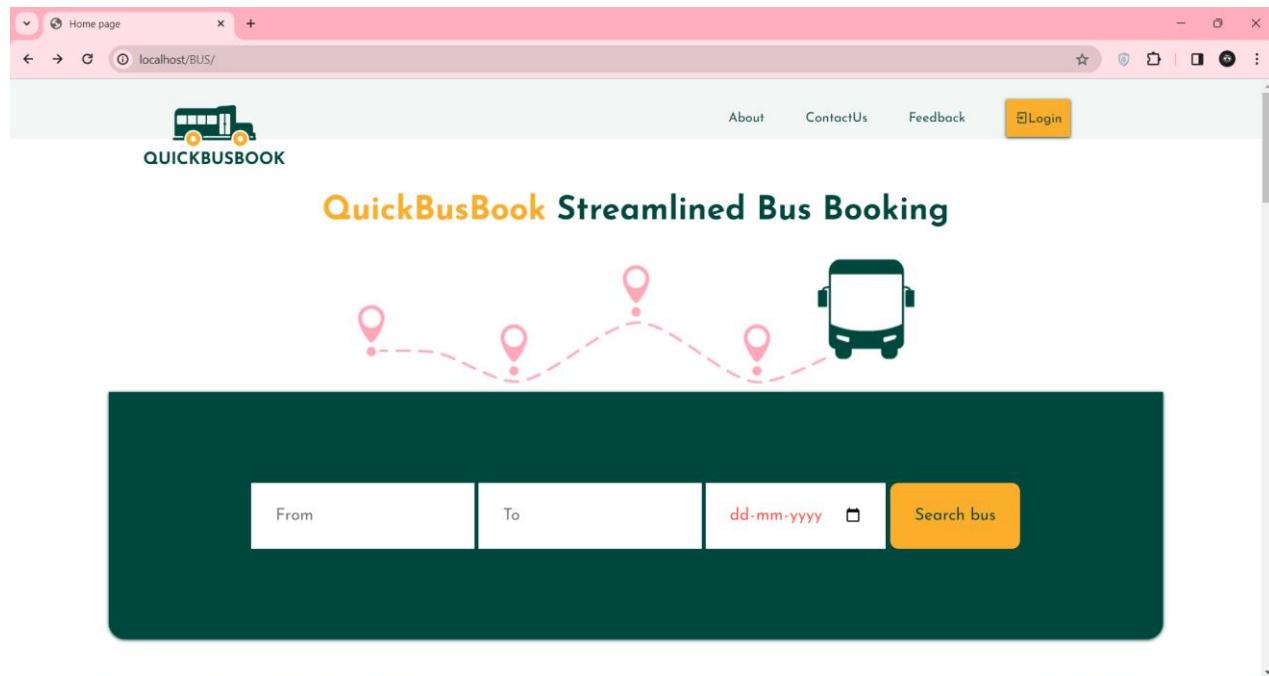
Sr. No	Field Name	Data Type	Description
1.	id	int(11)	It Store a ID.
2.	mail	varchar(25)	It Store a mail address.
3.	name	varchar(22)	It Store a Name.
4.	about	text	It Store a message.

**g) Table Name: (BusNo)**

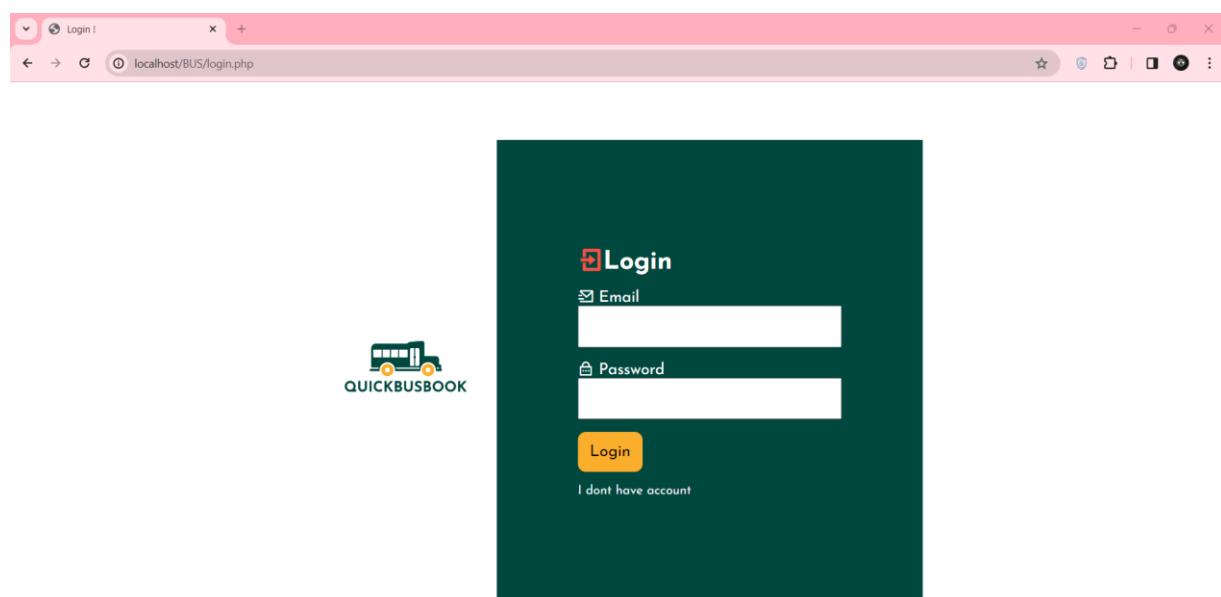
Sr. No	Field Name	Data Type	Description
1.	id	int(11)	It Store a ID
2.	email	varchar(255)	It Store a mail address.
3.	availability	varchar(255)	It Store a seat was booked or available.

## 4.2 Input Design

### ❖ Search Bus



### ❖ Login



## ❖ Signup

**SignUp**

Name

Email

Password  
Minimum 8 character

Confirm Password

Create account

I have already account

## ❖ Contactus

contactUS

Name  
Omkar

Email  
Omkar@gmail.com

Message  
Min 100 letters

Submit

Omkar Mote

## ❖ Feedback

**Feedback**

Name: Omkar

Email: Omkar@gmail.com

Message: Minimum 100 texts

Submit

## ❖ Select seat

Boarding	Dropping
sangli	vishrambag
vishrambag	sangli

Book Now

## ❖ Payment page

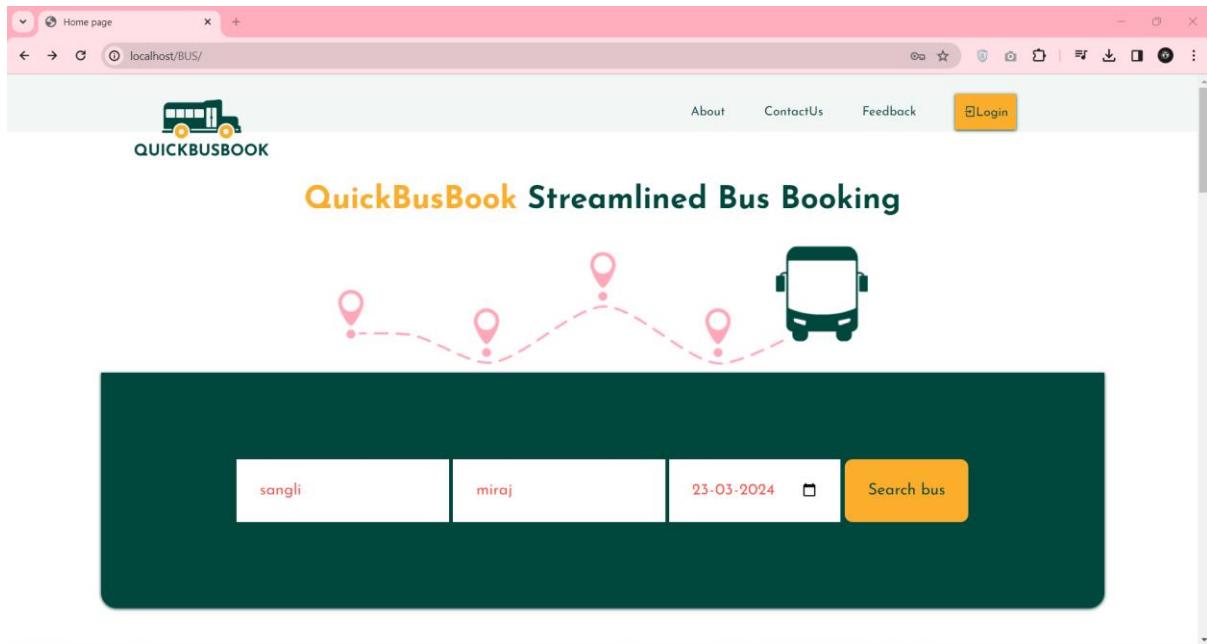
The screenshot shows a web browser window titled "Payment !". The URL in the address bar is "localhost/BUS/bookbus.php". The page header includes the "QUICKBUSBOOK" logo and navigation links for Home, About, Contact, Feedback, History, and a user profile for "Omkar Mote". The main content area is titled "Payment Page" and features a "PhonePe" payment section with the text "ACCEPTED HERE" and "Scan & Pay Using PhonePe App". A QR code is displayed for payment. Below the payment section, the name "OMKAR VILAS MOTE" is listed. To the right, there are input fields for "Phone No", "seatNo", "BusNO", "Boarding Point", "Stop point", "Amount", and "PaymentID" (with a placeholder "Here Your Payment Transaction ID"). A yellow "Pay now" button is at the bottom.

## ❖ Admin – Create Bus

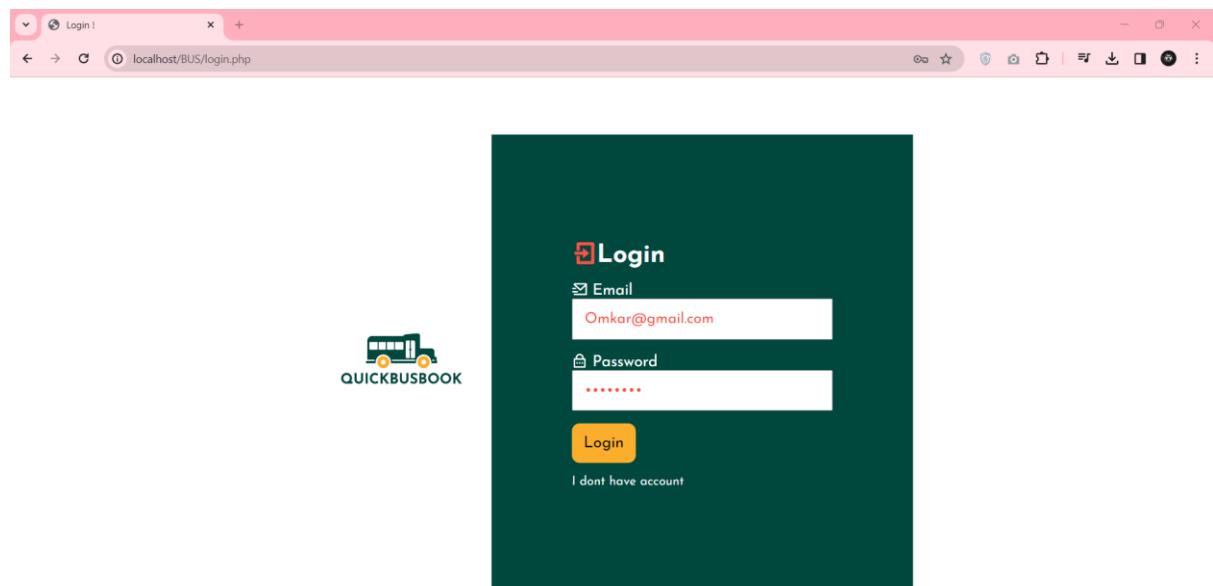
The screenshot shows an "Admin" interface for creating a bus route. The top navigation bar includes the "QUICKBUSBOOK" logo and buttons for "Admin" and "Report". The main form has two columns. The left column contains fields for "FromBus", "ToBus", "dd-mm-yyyy" (date), "BusName", "Departure", "Duration", "Arrival", "Payment", and "BusNo". The right column contains fields for "boarding" (with entries "boarding1" through "boarding5") and "dropping" (with entries "dropping1" through "dropping5"). At the bottom is a large yellow "Submit" button.

## 4.3 Output Design

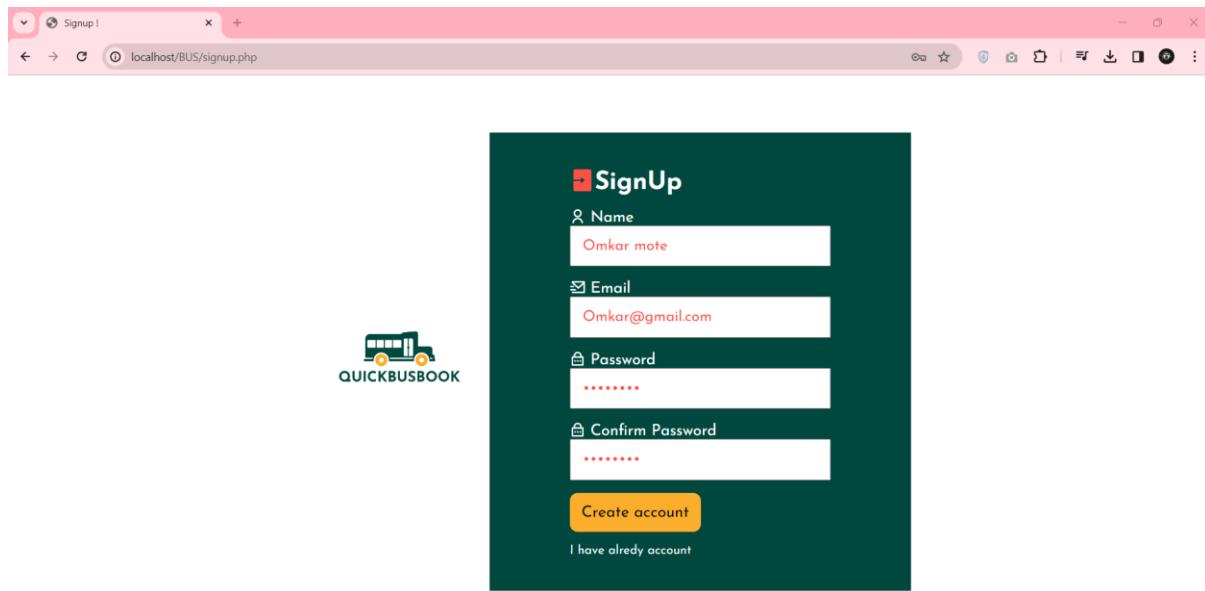
### ❖ Search Bus



### ❖ Login

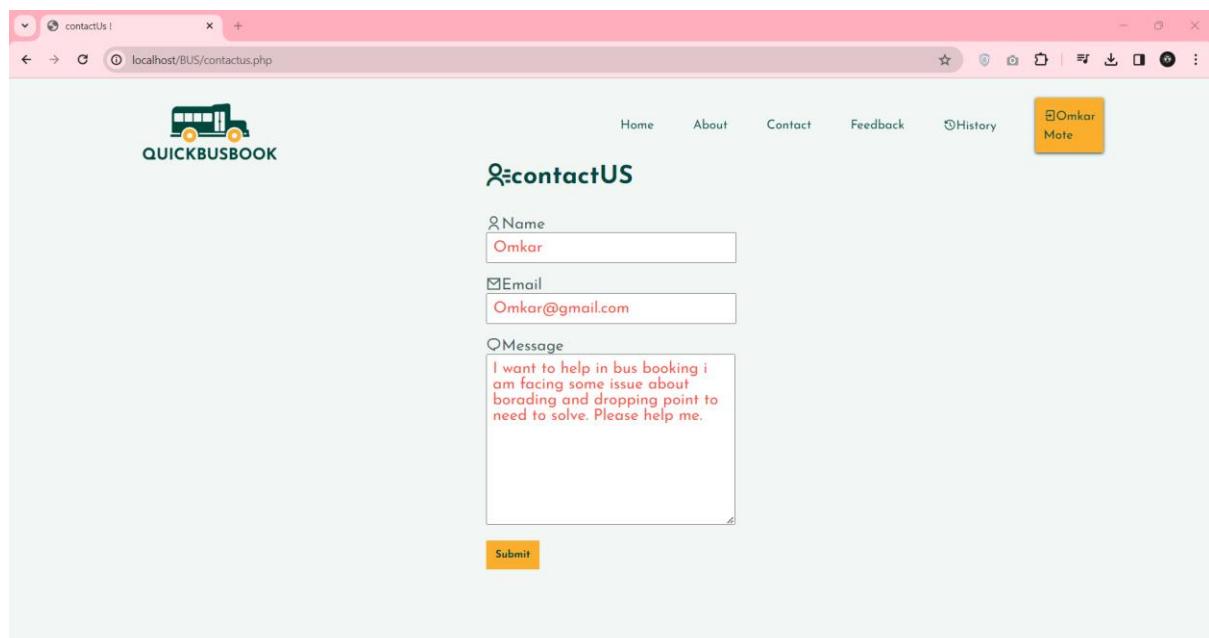


## ❖ Sign up



The screenshot shows a web browser window titled "Signup !". The URL in the address bar is "localhost/BUS/signup.php". The page has a dark green header with the text "SignUp" in white. Below the header, there are four input fields: "Name" (containing "Omkar mote"), "Email" (containing "Omkar@gmail.com"), "Password" (containing "\*\*\*\*\*"), and "Confirm Password" (containing "\*\*\*\*\*"). At the bottom left is a link "I have already account" and a yellow "Create account" button.

## ❖ Contactus



The screenshot shows a web browser window titled "contactUs !". The URL in the address bar is "localhost/BUS/contactus.php". The page features a logo for "QUICKBUSBOOK" with a bus icon. At the top right are navigation links: Home, About, Contact, Feedback, and History. A user profile box on the right shows "Omkar Mote". The main content area is titled "ContactUS" and contains three input fields: "Name" (containing "Omkar"), "Email" (containing "Omkar@gmail.com"), and "Message" (containing a message about bus booking issues). A yellow "Submit" button is at the bottom.

## ❖ Feedback

**Feedback**

Name: Omkar

Email: omkar@gmail.com

Message:

I recently had the opportunity to use your website for booking bus tickets, and I wanted to share my experience with you. Overall, I was impressed with the user-friendly interface and seamless booking process. The website layout was intuitive, making it easy to navigate and find the information I needed.

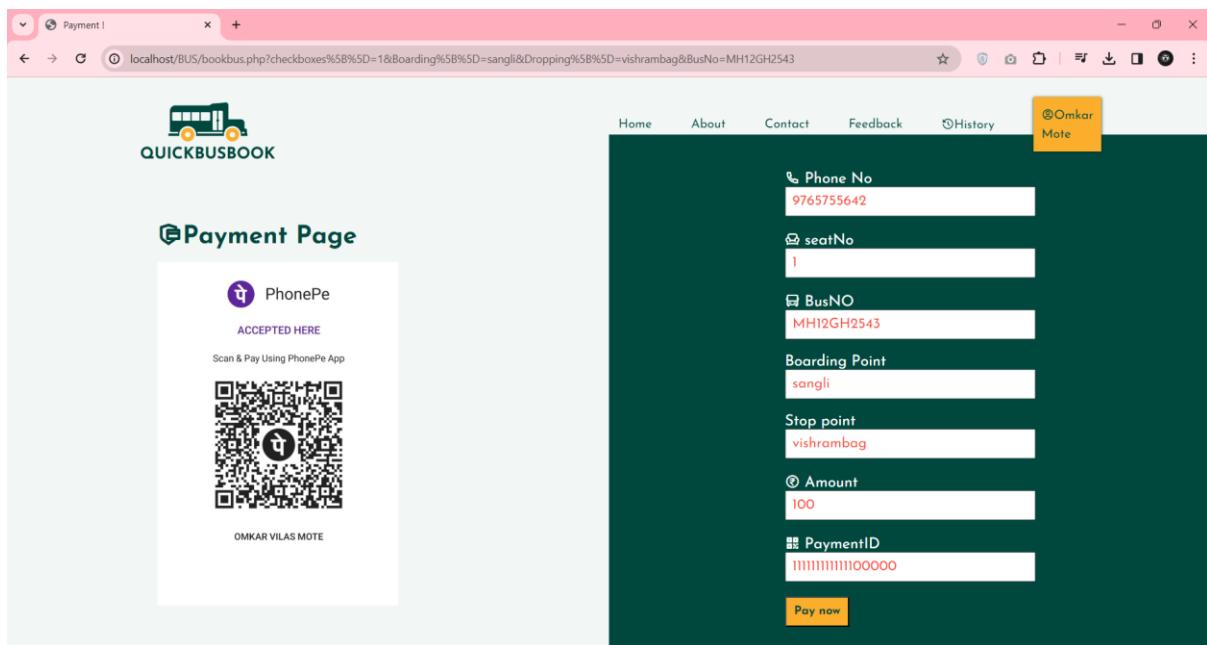
**Submit**

## ❖ Select seat

Boarding		Dropping	
<input checked="" type="checkbox"/> sangli	<input checked="" type="checkbox"/> vishrambag	<input type="checkbox"/> vishrambag	<input type="checkbox"/> sangli
<input type="checkbox"/> sangli	<input type="checkbox"/> vishrambag	<input type="checkbox"/> sangli	<input type="checkbox"/> vishrambag
<input type="checkbox"/> sangli	<input type="checkbox"/> vishrambag	<input type="checkbox"/> sangli	<input type="checkbox"/> vishrambag
<input type="checkbox"/> sangli	<input type="checkbox"/> vishrambag	<input type="checkbox"/> sangli	<input type="checkbox"/> vishrambag
<input type="checkbox"/> sangli	<input type="checkbox"/> vishrambag	<input type="checkbox"/> sangli	<input type="checkbox"/> vishrambag

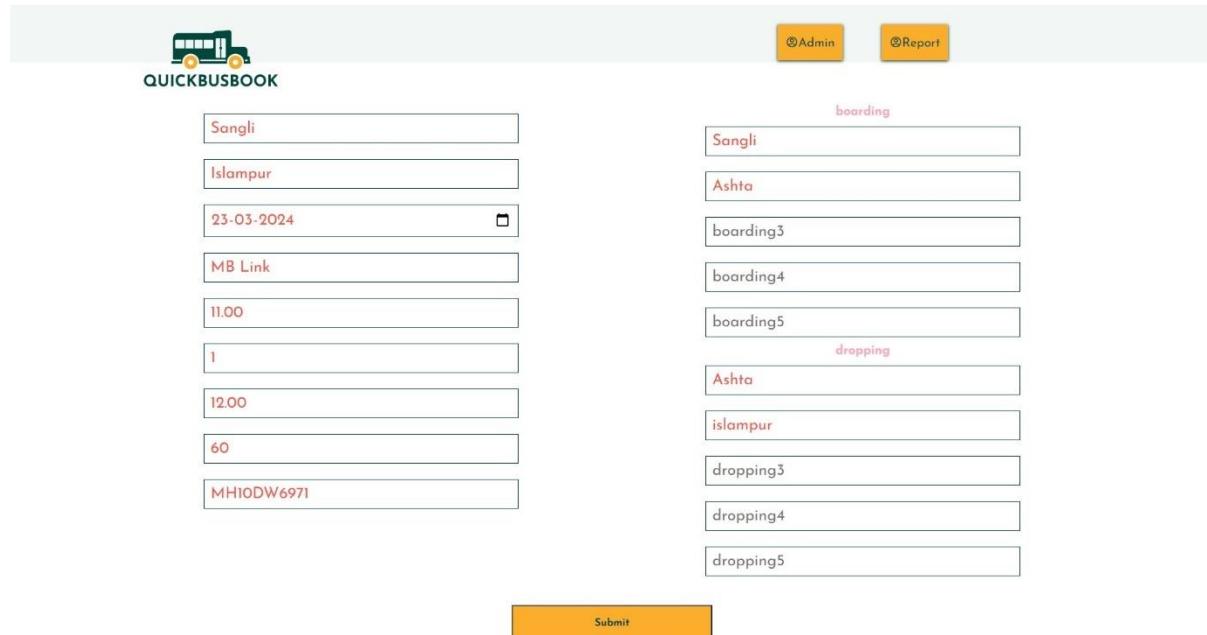
**Book Now**

## ❖ Payment page



The screenshot shows a web browser window titled "Payment !". The URL is "localhost/BUS/bookbus.php?checkboxes%5B%5D=1&Boarding%5B%5D=sangli&Dropping%5B%5D=vishrambag&BusNo=MH12GH2543". The page has a header with the "QUICKBUSBOOK" logo and navigation links for Home, About, Contact, Feedback, History, and Omkar Mote. The main content area is titled "Payment Page" and features a "PhonePe" logo with the text "ACCEPTED HERE". It includes a QR code for "Scan & Pay Using PhonePe App". On the right side, there are input fields for "Phone No" (9765755642), "seatNo" (1), "BusNO" (MH12GH2543), "Boarding Point" (sangli), "Stop point" (vishrambag), "Amount" (100), and "PaymentID" (111111111100000). A "Pay now" button is at the bottom.

## ❖ Admin – Create Bus



The screenshot shows an "Admin" interface for creating a bus route. The top bar has "QUICKBUSBOOK" and "Admin" buttons. The main form contains two columns of input fields. The left column includes fields for "boarding" (Sangli, Islampur, Date: 23-03-2024, MB Link, Time: 11.00, Stop 1, Stop 2, Stop 3, Bus ID: MH10DW6971). The right column includes fields for "boarding" (Ashta, boarding3, boarding4, boarding5) and "dropping" (Ashta, islampur, dropping3, dropping4, dropping5). A "Submit" button is located at the bottom center.

## ❖ Home



**Early Bird Special**  
Book your bus tickets in advance and enjoy discounted fares. Save up to 20% on select routes when you book at least 14 days before your departure date.

**Weekend Getaway Offer**  
Planning a weekend trip? Take advantage of our Weekend Getaway Offer and get 15% off on round-trip bookings for travel between Friday and Sunday.

**Family Discount**  
Traveling with family? Enjoy special discounts on group bookings. Save 10% on bookings for 4 or more passengers traveling together on the same route.

**Student Discount**  
Attention students! Present your valid student ID and get an exclusive discount of 10% on all bus tickets booked through our website.

**Frequent Traveler Rewards**  
Join our loyalty program and earn points with every booking. Redem them for discounts, free upgrades, and other rewards on future trips.



### safety insurance

**Insurance Coverage:**

- Ensure all bus operators provide comprehensive insurance covering passenger liability for accidents or injuries during journeys.

Insurance coverage is crucial for protecting passengers in case of unforeseen accidents or incidents during their journey. Comprehensive insurance should cover medical expenses, property damage, and other liabilities, providing financial security for passengers and operators alike. It's important to verify the adequacy of insurance coverage to ensure passengers are adequately protected in the event of an emergency.

**Driver Qualifications:**

- Verify driver's license, experience, and training to guarantee safe driving practices.

The qualifications and competence of bus drivers directly impact passenger safety. By verifying driver's license, experience, and training, you ensure that only qualified individuals operate buses. Interested passengers can request to see driver's licenses and ask for training certificates to verify safe driving practices, reducing the risk of accidents and ensuring a smoother and safer journey for passengers.

**Coverage Details:**

- Specify the types of accidents covered by the safety insurance, such as incidents, medical emergencies, trip cancellations, or baggage loss.
- Explain the extent of coverage provided, including reimbursement for medical expenses, compensation for trip interruptions, or liability protection in case of accidents.

**Emergency Preparedness:**

- Mandate emergency protocols, including accident response plans and evacuation procedures, for all bus operators.

Emergency preparedness is critical for ensuring passenger safety in the event of accidents or unforeseen emergencies. By creating incident response plans and evacuation procedures, bus operators can quickly respond to emergency situations effectively. This includes procedures for notifying emergency services, providing first aid to injured passengers, and safely evacuating passengers from the vehicle. A well-defined emergency plan in place enhances passenger confidence and ensures a prompt and coordinated response in times of crisis.

**Vehicle Maintenance Records:**

- Require bus operators to provide documentation of regular vehicle maintenance to ensure vehicles are in optimal condition.

**Review**

**Omkar More**

I recently used Best Bus Booking to plan a trip, and I must say, it was an exceptional experience from start to finish. The platform's user-friendly interface and extensive search options made it easy for me to compare prices and select the most convenient option for my journey.

**Balaji Patel**

"Efficient and convenient! Best Bus Booking has been planning my long-distance travels since forever. Found the perfect bus at a great price with just a few clicks. Highly recommended!"

**prathmesh kote**

"Used Best Bus Booking for the first time and was pleasantly surprised. Easy to navigate, tons of options, and excellent customer support. Will definitely use again!"

**Savindra Sehgal**

"Impressed with the excellent experience provided by Best Bus Booking. Found exactly what I was looking for without any hassle. Will be my go-to platform for bus tickets from now on!"

**vishnu manje**

"Best Bus Booking is my preferred choice for all my bus travel needs. With a wide range of options and straightforward booking process, it's my go-to platform. Highly recommended!"

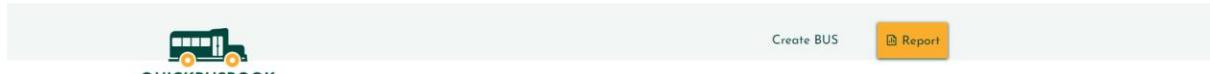
**Vighnesh Kadamb**

"Smooth transactions every time! Best Bus Booking never disappoints. Their user-friendly interface and reliable service make them stand out. Two thumbs up!"

**QUICKBUSBOOK**

Welcome to QuickBusBook, where bus booking is made easy and efficient. With our streamlined platform, you can book your bus tickets in just a few clicks, saving you time and hassle. Say goodbye to long queues and complicated booking processes. Our user-friendly interface and advanced search features make it quick and easy to find the perfect bus for your journey. Book with us today and experience a smooth and stress-free experience from start to finish. Travel with confidence and convenience with QuickBusBook today!

❖ Admin



## CHAPTER 5

# User Guideline

## 5. User Guideline

### 5.1 Installation process

1. Download the zip file containing the application.
2. Install XAMPP software, which is required to run the application.
3. Extract the contents of the zip file using software like **WinRAR**.
4. Complete the installation process for XAMPP.
5. After extraction, locate the XAMPP folder in your system drive. Inside the XAMPP folder, find the "**htdocs**" folder and paste the extracted files there.
6. Open the XAMPP control panel and start the Apache and MySQL servers.
7. Once started, you will see the server status displayed in green.
8. Click on the "**Admin**" button next to Apache in the control panel.
9. This will open the Apache dashboard in your web browser.
10. Change the URL to "http://localhost/BUS/" in the browser address bar.
11. Proceed to set up the database.
12. In the XAMPP control panel, click on the "Admin" button next to MySQL.
13. This will open **PhpMyAdmin**. Create a new database named "BUS."
14. In **PhpMyAdmin**, navigate to the "**Import**" option and import the database from the extracted folder.
15. Next, open the "**DB.php**" file and update it with the database name, password, and user information.
16. Once completed, you have successfully installed the application.

#### MODULES AFTER LOGIN BY user: -

- **Search:** Find available buses based on location, date, and time.
- **Select Bus:** View bus details and choose preferred options.
- **Feedback:** Share reviews and ratings about bus experiences.
- **Contact Us:** Reach out for assistance or inquiries.
- **Payment:** Securely pay for selected bus tickets.

#### MODULES AFTER LOGIN BY admin: -

- **Create Bus:** Add new bus details.
- **Users:** Monitor and manage user accounts.
- **Buses:** View, edit, and delete bus entries.
- **Feedback:** Review and delete user feedback.
- **Contact Us:** Manage user inquiries and messages.
- **History:** Monitor user purchase history.
- **Old Buses:** Track history of retired buses.

# CHAPTER 6

# Source Code

## 6. Source Code

❖ **Home:**

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Home page</title>
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
        href="https://fonts.googleapis.com/css2?family=Josefin+Sans:ital,wght@0,100..700;1,10
        0..700&display=swap"
        rel="stylesheet">
    <link
        href="https://cdnjs.cloudflare.com/ajax/libs/remixicon/4.2.0/remixicon.min.css"
        integrity="sha512-
MqL4+Io386IOPMKKyplKII0pVW5e+kb+PI/I3N87G3fHifrgNNsRpzIXEi+0MQC0sR9
xZNqZqCYVcC61fL5+Vg=="
        crossorigin="anonymous" referrerPolicy="no-referrer" />
    <link rel="stylesheet" href="css/style.css">
</head>

<body>
    <div class="navigation">
        <nav>
            <div class="logo"></div>
            <ul>
                <li class="activ"><a href="about.php">About</a></li>
                <li class="activ"><a href="contactus.php">ContactUs</a></li>
                <li class="activ"><a href="feedback.php">Feedback</a></li>
                <?php
                    include("DB.php");
                    $emailV = $_COOKIE['AUTH']??";
                    if($emailV){
                        echo '<li class="activ"><a href="history.php"> <i class="ri-history-line"></i>History</a></li>';
                    }
                    $query = "SELECT * FROM login WHERE email='$emailV'";
                    $result = mysqli_query($conn,$query);
                    if($result){
                        $row = mysqli_fetch_assoc($result);
                        $name = $row['Name']??'Login';
                    }
                <?php
            </ul>
        </nav>
    </div>
</body>

```

```

        echo '<li class="active"><a href="login.php"><i class="ri-login-box-line"></i>' . $name . '</a></li>';
    }
?>
<!-- <li class="active"><a href="login.php"><i class="ri-login-box-line"></i>Login</a></li> -->
</ul>
</nav>
</div>

<main>
<div class="maintitle">
    <h1><span>QuickBusBook </span>Streamlined Bus Booking</h1>
</div>
<div class="content1">
    <div class="content2">
        <form action="home.php" method="post">
            <!-- <label for="form">From</label> -->
            <input type="text" name="form" id="" placeholder="From" required>
            <!-- <label for="to">To</label> -->
            <input type="text" name="to" id="" placeholder="To" required>
            <!-- <label for="Date">Date</label> -->
            <input type="date" name="date" id="date" required>
            <input type="submit" value="Search bus" id="buttonsearch">
            <!-- <button>Search bus</button> -->
        </form>
    </div>
</div>
</main>
<!-- main2 -->
<div class="main2">
    <div class="main2in2">
        <div class="main2in2in2">
            <!-- <div class="lableforoffers">Offers</div> -->
            <div class="boxforoffer">
                <h2>Early Bird Special</h2>
                <p>Book your bus tickets in advance and enjoy discounted fares. Save up to 20% on select routes when you book at least 14 days before your departure date.</p>
            </div>
            <div class="boxforoffer">
                <h2>Weekend Getaway Offer</h2>
                <p>Planning a weekend trip? Take advantage of our Weekend Getaway Offer and get 15% off on round-trip bookings for travel between Friday and Sunday.</p>
            </div>
        </div>
    </div>
</div>

```

```

</div>
<div class="boxforoffer">
    <h2>Family Discount</h2>
    <p>Traveling with family? Enjoy special discounts on group bookings. Save 10% on bookings for 4 or more passengers traveling together on the same route. </p>
</div>
<div class="boxforoffer">
    <h2>Student Discount</h2>
    <p>Attention students! Present your valid student ID and get an exclusive discount of 15% on all bus tickets booked through our website. </p>
</div>
<div class="boxforoffer">
    <h2>Frequent Traveler Rewards</h2>
    <p>Join our loyalty program and earn points with every booking. Redeem your points for discounts, free upgrades, and other rewards on future trips.</p>
</div>
</div>
<div class="main2in2">
    <div class="main2in2in2in2"></div>
</div>
</div>
<br>
<br>

<div class="main3">
    <div class="lableforoffers">
        <h1>safety insurance</h1>
    </div>
    <div class="main3box">
        <div class="main3box1">
            <h2>Insurance Coverage:</h2>
            <p><span><i class="ri-focus-fill"></i></span>Ensure all bus operators provide comprehensive insurance covering passenger liability for accidents or injuries during journeys.</p>
            <p>Insurance coverage is essential for protecting passengers in case of unforeseen accidents or incidents during their journey. Comprehensive insurance should cover medical expenses, property damage, and other liabilities, providing financial security for passengers and operators alike. It's important to verify the adequacy of insurance coverage to ensure passengers are adequately protected in the event of an emergency.</p>
        </div>
    </div>
</div>

```

```

</div>

<div class="main3box">
  <div class="main3box1">
    <h2>Driver Qualifications:</h2>
    <p><span><i class="ri-focus-fill"></i></span>Verify drivers' licenses, experience, and training to guarantee safe driving practices.</p>
    <p>The qualifications and competence of bus drivers directly impact passenger safety. By verifying drivers' licenses, experience, and training, you ensure that only qualified individuals operate the buses listed on your platform. Experienced and well-trained drivers are more likely to adhere to safe driving practices, reducing the risk of accidents and ensuring a smoother and safer journey for passengers.</p>
    </p>
  </div>
</div>

<div class="main3box">
  <div class="main3box1">
    <h2>Coverage Details:</h2>
    <p><span><i class="ri-focus-fill"></i></span>Specify the types of incidents covered by the safety insurance, such as accidents, medical emergencies, trip cancellations, or baggage loss.</p>
    <p>Explain the extent of coverage provided, including reimbursement for medical expenses, compensation for trip interruptions, or liability protection in case of accidents.</p>
    </p>
  </div>
</div>

<div class="main3box">
  <div class="main3box1">
    <h2>Emergency Preparedness:</h2>
    <p><span><i class="ri-focus-fill"></i></span>Mandate emergency protocols, including accident response plans and evacuation procedures, for all bus operators.</p>
    <p>Emergency preparedness is critical for ensuring passenger safety in the event of accidents or unforeseen emergencies. By mandating accident response plans and evacuation procedures, bus operators are better equipped to handle various emergency scenarios effectively. This includes procedures for notifying emergency services, providing first aid to injured passengers, and safely evacuating passengers from the bus if necessary. Having well-defined emergency protocols in place enhances passenger confidence and ensures a prompt and coordinated response in times of crisis.</p>
    </p>
  </div>
</div>

```

```

</div>
<div class="main3box">
  <div class="main3box1">
    <h2>Vehicle Maintenance Records:</h2>
    <p><span><i class="ri-focus-fill"></i></span>Require bus operators to provide documentation of regular vehicle maintenance to ensure vehicles are in optimal condition.</p>
  </div>
  <br>
  <br>
</div>
<br>
<br>
<div class="main4">
  <div class="main4titel">
    <h2>Review</h2>
  </div>
  <div class="maininmain4">
    <?php
      include("DB.php");

      $querry = 'SELECT * FROM review';
      $result = mysqli_query($conn, $querry);
      while ($row = mysqli_fetch_array($result)) {
        $name = $row['name'];
        $about = $row['about'];
        echo '<div class="main4box">';
        echo "<h4><i class='ri-bard-line'></i>$name<i class='ri-bard-line'></i></h4>";
        echo "</br>";
        echo "<p>$about</p>";
        echo "</div>";
      }
    ?>
  </div>
</div>

<br>
<br>
<footer>
  <div class="footer1">
    <div class="footer1in"></div>
  </div>
  <div class="footer2">
    <div class="footer1in2">
      <p>

```

"Welcome to QuickBusBook, where bus booking is made easy and efficient. With our streamlined

platform, you can book your bus tickets in just a few clicks, saving you time and hassle. Say

goodbye to long queues and complicated booking processes. Whether it's a spontaneous trip or a

planned journey, QuickBusBook ensures a smooth and stress-free experience from start to finish.

```

    Travel with confidence and convenience with QuickBusBook today!"</p>
</div>
</div>
<!-- <div class="footer1"></div> -->
<div class="footer1">
<a href="">
    <p class="YT"><i class="ri-youtube-line"></i></p>
</a>
<a href="">
    <p class="INSTA"> <i class="ri-instagram-line"></i></p>
</a>
<a href="">
    <p class="X"><i class="ri-twitter-x-line"></i></p>
</a>
<a href="">
    <p class="FACE"><i class="ri-facebook-box-line"></i></p>
</a>
</div>
</footer>
<script>
    // Get all .main4box elements
    var boxes = document.querySelectorAll(".main4box");

    // Loop through each box and assign a random width
    boxes.forEach(function (box) {
        var randomWidth = Math.floor(Math.random() * (50 - 10 + 1)) + 10; // Random
width between 10% and 50%
        box.style.width = randomWidth + "%"; // Set the width
    });
</script>

</body>
</html>
```

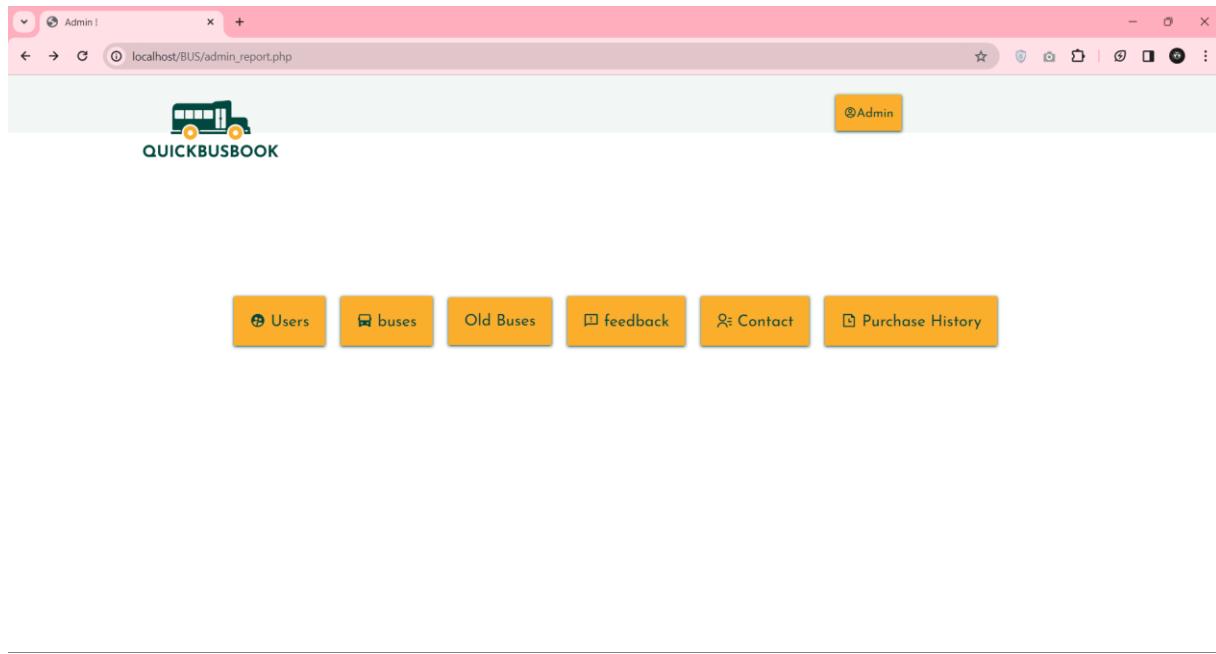
## CHAPTER 7

# Outputs

## 7. Outputs

### 7.1 Input screens and Report

#### ❖ Reports



#### ❖ Users

Name	Email	Password	delete
Omkar Mote	Omkar@gmail.com	12345678	<a href="#">Delete</a>
Balaji Patil	Patilbalaji@gmail.com	Balaji@123	<a href="#">Delete</a>
prathamesh kole	prathameshkole@gmail.com	prathamesh@123	<a href="#">Delete</a>
swapnil savane	ssavane123@gmail.com	12345678	<a href="#">Delete</a>
vibhav manjre	vibhav123@gmail.com	vibhav123	<a href="#">Delete</a>
Vighnesh Kadam	vighneshkadam575@gmail.com	vighnesh1310	<a href="#">Delete</a>

## ❖ Created Buses

The screenshot shows a web browser window titled 'Buses !' with the URL 'localhost/BUS/admin\_buses.php'. The page features a header with a logo and navigation links for 'Report' and 'Admin'. Below the header is a dark green banner with the text 'Created Buses Report'. A table follows, displaying the following data:

FromBus	ToBus	Date	BusName	Departure	Duration	Arrival	Fare	Seats	BusNo	boarding	dropping	Action view	Action
miraj	pune	2024-03-27	Bhagyalaxmi Travels	11.00	5.00	16.00	800.00	40	MH08WE7878	miraj,sangli...	sangli,tung...	<a href="#">View</a>	<a href="#">Delete</a>
sangli	kolhapur	2024-03-23	RD BUS	11.00	2.00	13.00	80.00	40	MH09DW5656	sangli bus stand,sangli travels sand ...	sangli bus stand,sangli travels sand ...	<a href="#">View</a>	<a href="#">Delete</a>
sangli	ashta	2024-03-23	MB Link	11.00	30.00	11.30	30.00	40	MH10LC1213	sangli,tung...	sangli,tung...	<a href="#">View</a>	<a href="#">Delete</a>
sangli	islampur	2024-03-24	R bus	9.00	1.00	10.00	60.00	40	MH10LL1778	sangli,tung,karandwadi,ashta,	sangli,tung,karandwadi,ashta,	<a href="#">View</a>	<a href="#">Delete</a>

## ❖ Bus History

The screenshot shows a web browser window titled 'Old Buses History !' with the URL 'localhost/BUS/admin\_olddbuses.php'. The page features a header with a logo and navigation links for 'Report' and 'Admin'. Below the header is a dark green banner with the text 'Bus history Report'. A table follows, displaying the following data:

FromBus	ToBus	Date	BusName	Departure	Duration	Arrival	Fare	Seats	BusNo	boarding	dropping
sangli	sangli	2024-03-18	SG	11.00	2.00	13.00	100.00	40	MH12GH2543	sangli,vishrambag...	sangli,vishrambag...
Sangli	Islampur	2024-03-23	MB Link	11.00	1.00	12.00	60.00	40	MH10DW6971	Sangli,Tung,Karandwadi,Ashta,	Sangli,Tung,Karandwadi,Ashta,
sangli	ashta	2024-03-23	MB Link	11.00	30.00	11.30	30.00	40	MH10LC1213	sangli,tung...	sangli,tung...
sangli	islampur	2024-03-24	R bus	9.00	1.00	10.00	60.00	40	MH10LL1778	sangli,tung,karandwadi,ashta,	sangli,tung,karandwadi,ashta,
sangli	kolhapur	2024-03-23	RD BUS	11.00	2.00	13.00	80.00	40	MH09DW5656	sangli bus stand,sangli travels sand ...	sangli bus stand,sangli travels sand ...
miraj	pune	2024-03-27	Bhagyalaxmi Travels	11.00	5.00	16.00	800.00	40	MH08WE7878	miraj,sangli...	miraj,sangli...

## ❖ Feedback

The screenshot shows a web browser window titled "feedback data" with the URL "localhost/BUS/admin\_feedback.php". The page features a header with a bus icon and the text "QUICKBUSBOOK". Below the header is a dark green banner with the text "feedback Report". The main content is a table with columns: ID, Email, name, Message, and Action. The table contains six rows of feedback from users like Omkar Mote, Balaji Patil, and Vighnesh Kadam.

ID	Email	name	Message	Action
5	Omkar@gmail.com	Omkar Mote	I recently used Best Bus Booking to plan a trip, and I must say, it was an exceptional experience from start to finish. The platform's user-friendly interface made it incredibly easy to search for bus routes, compare prices, and select the most convenient option for my journey.	<button>Delete</button>
6	Patilbalaji@gmail.com	Balaji Patil	"Efficient and convenient! Best Bus Booking made planning my last-minute trip a breeze. Found the perfect bus at a great price in just a few clicks. Highly recommend!"	<button>Delete</button>
7	prathameshkole@gmail.com	prathamesh kole	"Used Best Bus Booking for the first time and was pleasantly surprised. Easy to navigate, tons of options, and excellent customer service when I needed assistance. Will definitely use again!"	<button>Delete</button>
8	ssavane123@gmail.com	swapnil savane	"Impressed with the seamless experience provided by Best Bus Booking. Found exactly what I was looking for quickly and without any hassle. Will be my go-to platform for booking bus tickets from now on!"	<button>Delete</button>
11	vibhav123@gmail.com	vibhav manjre	"Best Bus Booking is my preferred choice for all my bus travel needs. With a wide range of options and straightforward booking process, it's my go-to platform. Highly recommended!"	<button>Delete</button>
12	vighneshkadam575@gmail.co	Vighnesh Kadam	"Smooth transactions every time! Best Bus Booking never disappoints. Their user-friendly interface and reliable service make them stand out. Two thumbs up!"	<button>Delete</button>

## ❖ Contact Us

The screenshot shows a web browser window titled "contactUs !" with the URL "localhost/BUS/admin\_Contact.php". The page features a header with a bus icon and the text "QUICKBUSBOOK". Below the header is a dark green banner with the text "Contact Report". The main content is a table with columns: ID, Email, name, Message, and Action. The table contains five rows of inquiries from users like Omkar, Balaji Patil, and vibhav manjre.

ID	Email	name	Message	Action
10	Omkar@gmail.com	Omkar	I want to help in bus booking i am facing some issue about borading and dropping point to need to solve. Please help me.	<button>Delete</button>
12	Patilbalaji@gmail.com	Balaji Patil	Interested in learning more about your bus booking services. Please provide information about routes and pricing.	<button>Delete</button>
13	prathameshkole@gmail.com	prathamesh kole	Having trouble booking a bus ticket online. Need assistance with the booking process. Please help!	<button>Delete</button>
14	ssavane123@gmail.com	swapnil savane	Want to inquire about group bookings for a school trip. Can you provide information about availability and any discounts offered?	<button>Delete</button>
15	vibhav123@gmail.com	vibhav manjre	Interested in partnering with your bus booking service for a promotional event. Please provide details on potential collaborations and marketing opportunities.	<button>Delete</button>

## ❖ Purchase History

The screenshot shows a web browser window titled "Purchase History !". The URL in the address bar is "localhost/BUS/admin\_PurHistory.php". The page header includes a logo for "QUICKBUSBOOK" and buttons for "Report" and "Admin". The main content area has a dark green header with the title "Purchase History Report". Below this is a table with the following columns: Email, PhoneNo, seatNo, BusNO, boarding, dropping, boardingtime, Amount, PaymentID, and purchase\_date. The table contains six rows of data, each representing a bus booking record.

Email	PhoneNo	seatNo	BusNO	boarding	dropping	boardingtime	Amount	PaymentID	purchase_date
vighneshkadam575@gmail.com	7822073191	3	MH10PO456	Sangli	tung	2.00	60.00	706633492552552	2024-03-09 12:42:52
koleprthmesh@gmail.com	706633462558	410	MH10PO456	Sangli	ashta	2.00	120.00	445442528515425	2024-03-13 11:12:55
ssavane123@gmail.com	7066334901111	25	MH10PO456	Sangli	tung	2.00	60.00	524525124212441	2024-03-18 13:24:34
ssavane123@gmail.com	78787878877	7	MH10PO456	Sangli	tung	2.00	60.00	245214214421557	2024-03-18 14:11:20
sneha@gmail.com	7746474764	12	MH10PO456	Sangli	ashta	2.00	60.00	424142254225214	2024-03-18 14:30:46
Omkar@gmail.com	9765755642	1	MH12GH2543	sangli	vishrambag	11.00	100.00	1142411141112411	2024-03-23 12:37:52

# **CHAPTER 8**

# **Conclusion and Suggestions**

## 8. Conclusion and Suggestions

### 8.1 Conclusion and suggestions

#### Conclusion:

Application for Bus Booking management system getting more popular day by day. Because of the system, people can now Book online Seat anytime. Adopting this system increases the occupancy rate and better control of Bus Detail. By harnessing the capabilities of HTML, CSS, JavaScript, PHP, and MySQL, we have created a user-friendly platform that prioritizes convenience, efficiency, and reliability. Our platform empowers travelers to seamlessly plan their journeys, from browsing routes to selecting seats and making secure Booking.

Moreover, the system's comprehensive reporting and analytics functionalities offer valuable insights into booking trends, passenger preferences, and route performance. Managers can utilize this data to identify potential bottlenecks, implement targeted strategies, and make informed decisions to enhance operational efficiency and customer satisfaction.

Overall, the Bus Booking Management System signifies a significant advancement in the management of transportation services, delivering improved efficiency, accuracy, and control over booking operations.

#### Suggestions:

- Implement a real-time bus tracking system that allows passengers to monitor the exact location and estimated arrival time of their bus.
- Develop a feature where passengers receive automated calls or notifications when their bus is approaching the boarding point, ensuring they are ready for boarding.
- Create a user-friendly mobile application that enables seamless booking, ticket management, and access to essential travel information.
- Integrate a secure payment gateway into the online platform to facilitate convenient and safe transactions for passengers using various payment methods.
- Provide timely updates regarding bus schedules, delays, and other relevant information to keep passengers informed throughout their journey.

## 8.2 Future enhancement

- **Bus Tracking System Expansion:** In the future, the bus tracking system can be enhanced with advanced features such as predictive analytics to estimate arrival times more accurately. Integration with smart city infrastructure could also enable traffic-aware routing for buses, optimizing travel times.
- **Automated Boarding Point Notifications:** Beyond basic notifications, future enhancements may include integration with GPS technology to provide passengers with precise boarding point locations and estimated arrival times of buses, reducing waiting times and enhancing convenience.
- **Mobile Application Evolution:** The mobile application can evolve to include additional features such as personalized trip recommendations, loyalty programs, and integration with other transportation services like trains or ridesharing, providing a comprehensive travel solution for users.
- **Secure Payment Gateway Innovation:** Future enhancements to the payment gateway can involve implementing biometric authentication, blockchain technology for added security and transparency, and support for emerging payment methods like cryptocurrency or digital wallets.
- **Enhanced Accessibility Features:** Incorporate accessibility features into the booking system and mobile app to accommodate passengers with diverse needs, including those with disabilities or limited mobility. Features such as voice-guided navigation, screen reader compatibility, and wheelchair-accessible seating options can improve inclusivity and ensure that all passengers can access essential information and services easily.
- **Crowdsourced Feedback:** Enable passengers to provide feedback and report issues directly through the booking system or mobile app. Implement mechanisms for collecting and analyzing crowdsourced feedback to identify recurring issues, gauge passenger satisfaction levels, and prioritize areas for improvement. This data-driven approach allows operators to address passenger concerns proactively and enhance the overall travel experience.

# CHAPTER 9

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