**Introduction**

* Bus Reservation System helps you find bus routes and tours with ease.
* The system allows you to plan, schedule and manage unlimited routes with start and end destinations, show bus schedules with the departure times of all buses of a specific route, seat details.
* [Add various **bus types**, show seats number and a seat map.](https://www.phpjabbers.com/)
* [Add multiple **bus routes** with boarding and arrival points.](https://www.phpjabbers.com/)
* [View **seats details** with passengers **details**.](https://www.phpjabbers.com/)

**Problem Statement**

**Existing system**

✓Existing system is totally on book and thus a great amount of manual work has to be done. The amount of manual work increases exponentially with increase in services.

✓Needs a lot of working staff and extra attention on all the records.

✓In existing system, there are various problems like keeping records of items, seats available, prices of per/seat and fixing bill generation on each bill.

✓Finding out details regarding any information is very difficult, as the user has to go through all the books manually.

✓Major problem was lack of security.

The proposed system is very simple in design and to implement. It has got following features:

✓Records are efficiently maintained by DBMS.

✓DBMS also provides security for the information.

✓Availability of seats can be enquired very easily.

✓Passengers can also cancel their tickets easily.

✓Minimum time needed for the various processing.

✓Better Services.

✓This would help the corporation prepare and organize its schedules more efficiently on the basis of traffic demand.

**Objectives**

The objectives of this project are:

1. To design and develop a web-based bus reservation management system

The other scopes of this project are:

1. The main users of this project are the company director, the bus counter staffs and customers.

2. The different bus schedule along with seat details are displayed.

3. The customer will be able to use the application to perform their reserving ticket transaction anywhere and at any time.

4. View of availability of buses for particular route in real time

5. To provide a secure payment gateway for online transaction

**Features**

According to our system we are having some features which will make users to access the system smoothly. Here we will describe what are going to implement in this online bus ticketing system.

We will integrate the features with the user’s interaction to make it clearer.

2.1 Users List

a. User: Customer Here customers can purchase the ticket or reserve their seats by accessing the system as a guest or as a member. With every purchasing or reservation the system will generate a reservation id or purchased id for both guest and members at a time. Once the payment is done customers won’t be able to send the request through the system to refund the payment if they want to cancel their purchase. Customers can update their account details as for example: contact number, email address, mail address etc. If the customers is not registered members then the system will not have any account for the guest to update at any time they want. So the information as for example name, address, contact, and email they will provide while reservation need to make sure they don’t change for any reasons. Registered Customers are able to cancel their booking although there will be no refund.

To reserve a bus ticket, customers just have to select a date, a start and end point and go through an intuitive,   
step-by-step booking process. They can review all available seats at a glance and select seats easily. As soon   
as the booking is completed, clients receive an electronic ticket they can print at home.

* [The **bus ticket booking** takes a few easy steps - select dates, start/end location, add personal details.](https://www.phpjabbers.com/)
* [Customers can book **One-way & Return tickets**. Admins are free to set discounts for round trips.](https://www.phpjabbers.com/)
* [Using an **interactive seats map** clients can select the seats they like by simply clicking on the icons.](https://www.phpjabbers.com/)
* [Customers are requested to choose a preferred **payment method** (if payments are enabled).](https://www.phpjabbers.com/)
* [Along with the booking confirmation email, clients receive the **e-tickets**, too, and can print them out.](https://www.phpjabbers.com/)

**Website Architecture**

**Table Structure With multiplicity and flow Navigation**

**UML Diagrams**