



BUS TICKET MANAGEMENT SYSTEM

A Report for the Evaluation 3 of Project 2

Submitted by

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**SCHOOL OF COMPUTER SCIENCE AND
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BONAFIDE CERTIFICATE

Certified that this project report “BUS TICKET MANAGEMENT SYSTEM” is the bonafide work of “HARSHIT JADON (1613101290)” who carried out the project work under my supervivion.

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Abstract

Online Bus Ticket Reservation System is a Web based application that works with in 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. OBTRS is built for managing and computerizing the traditional database, ticket booking and tracking bus and travel made. It maintains all customer details, bus details, reservation details. In order to achieve the design, Imo Transport Company (ITC) was chosen as a case study because of its strategic importance to Imo State. Structured Systems Analysis and Design Methodology (SSADM) was adopted. 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 software achieved is capable of improving the customer hand and relationship management in ITC operations. It is recommended that despite the present functionality of the designed software, an additional functionality such as the use of Email to send tickets and notifications to the customer and an online payment using credit cards/debit cards should be implemented into the system. Furthermore, other operations carried by ITC such as the courier services should also be integrated in order to enhance the system.

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1. Introduction

1.1 Overall Description

The Bus Ticket Management System Is an web based application used to book the bus tickets via web or online with the payment or booking done online. This system is established for all the office/home users after taking request from the administrator. Bus ticket management System provides bus transportation system, a facility to reserved seats, cancellation of seats and different types of enquiry which need an instant and quick reservation. This system can be used by the users in performing online reservation via internet for their all business purposes. Users can use this program directly on their websites and no need to install it.

The use of bus traveling is a large growing business in India and other countries; hence bus ticket management system deals with maintenance of records of each passenger who had reserved a seat for a journey. It also includes maintenance of information like schedule and details of each bus, Also, we get to know that there are many operations, which they have to do manually . It takes a lot of time and causes many errors. Due to this, sometimes a lot of problems occur and they were facing many disputes with customers. To solve the above problem, and further maintaining records of items, seat availability for customers, price of per seat, bill generation and other things, we are offering this proposal of reservation system. The reservation system has three modules. First module helps the customer to enquire the availability of seats in a particular bus at particular date, the second module helps him to reserve a ticket and with the third module he can cancel a reserved ticket.

1.2 Feasibility Study

The Bus ticket management system has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardship face by this existing system. moreover this system is designed for the particular need of the company to carry out operations in smooth and effective manner. The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering the invalid data. No formal knowledge is needed for the user to use this system. Thus by all this it proves it is u

ser friendly. Bus ticket booking system, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. Every organization, whether big or small, challenges to overcome and managing the information of tickets, Bus, customer, bus schedule, bus route. Every bus ticket management system has different bus need, therefore we design exclusive employee management system that are adopted to your managerial requirements. This is designed to assist in strategic planning and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executive who are always on the go, our system comes with remote access feature which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

1.3 Purpose

The main purpose of the bus ticket management system is to manage the details of the bus, ticket booking, customer, bus route. It manages all the information about bus, bus schedule, bus routes, bus. The project is totally built at administrative end and thus the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the bus ticket, bus schedule and booking.

Functionalities provided by Bus ticket management system are-

- Provides the searching facilities based on various factors. Such as booking, customer, bus route.
- It also manages the bus schedule details online for customer details, bus route details etc.
- The bus ticket management system also includes some AI facilities, i.e., Automatic close of the door of the bus after picking up all the passengers or last passengers.
- It provides a unique bar code for each passenger which is used for the GPS and details verifications.

- Editing, adding and updating of bus records is improved which results in proper resource management of Bus data.

1.4 Overview

It may help collecting perfect management in details. In every short time the collection will be obvious, simple and sensible. It will help a person to know the management of passed years vividly. It also helps in current all works related to bus ticket management system. It will also reduced the cost of collecting the management procedure to go on smoothly.

My project aims at business process automation, i.e., we have tried to computerized various processes of bus ticket management system.

- In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.
- In a computer system, it is not necessary to create the manifest but we can directly print it, which saves out time.
- To assist the staff in capturing, the effort spend on their respective working areas.
- To utilize an resources in an efficient manner ny increasing their productivity through automation.

Currently, staff at the bus ticket counter is using an internal system to sell tickets at the counter and customers who are unable to buy bus ticket online at this moment would have to go to the counter to a buy bus ticket. Sometimes, customers' needs to queue up a long queue to buy bus ticket and ask for information and this brings a lot of inconveniences to customers.

However, Online Bus Ticket Reservation System enables the customer to buy bus ticket, make payment, and ask for information online easily. Furthermore, staff can sell bus ticket using Bus Ticket Reservation System after checking the bus ticket availability for the customer and print the bus ticket to the customer.

2. Proposed System

The Bus Ticket Management System is currently maintaining the project Transport Company's process manually which is a very time consuming process. It deals with transport industry's ticket booking and transport maintenance, so it becomes a very tedious job for the ticket booking transporter to look after these particulars to complete the task at right time. The bus ticket booking system not only deals with transporters owned vehicles but also takes into consideration about the other types project of system transport vehicles available with other transporters .

To develop a software application that supports Specific to the project Travel Agency Automation that can solve all tedious tasks related to ticket booking in a travel agency.

- 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 as user friendly as possible so that any one 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 the system Performance status and other enquires.
- We provide up to date information that is not possible manually.
- The objective 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.

Report of the ticket booking different aspects can be generated like Available sits, current status of booking Cancelling details monthly status report etc.

3. Existing System

The purpose of Bus Ticket management system is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data can be stored for a longer period with easy accessing and

manipulations of the same. The required software and hardware are easily available and easy to work with.

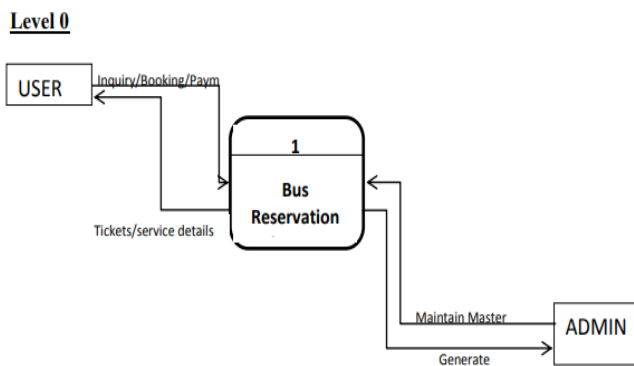
The aim is to automate its existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data can be stored for a long period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

The Bus Ticket management system involved various software technologies for its implementation some of these are Machine learning, Artificial intelligence, Internet of things to make things more easier and more reliable.

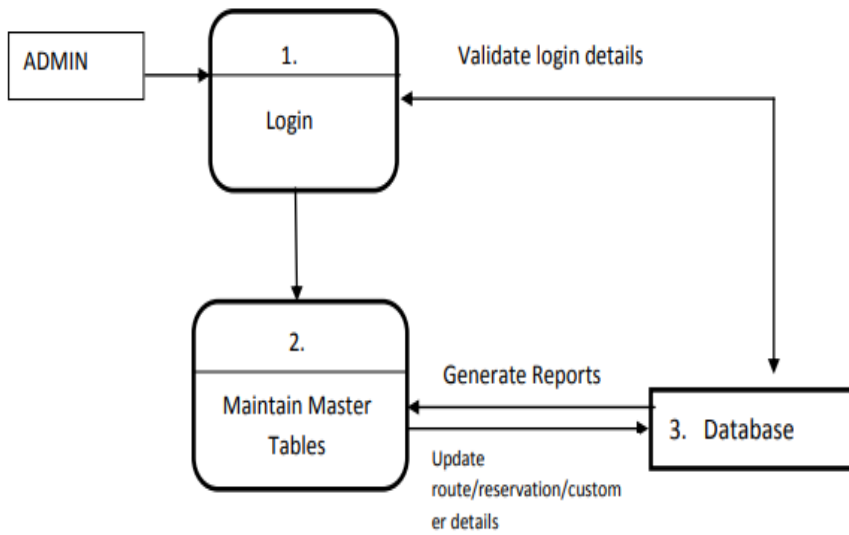
4. Architecture Diagrams

The Architecture Diagrams of Bus Ticket management System includes various aspects of user case functions and actors. Below represents the user case as well as the relationship diagrams.

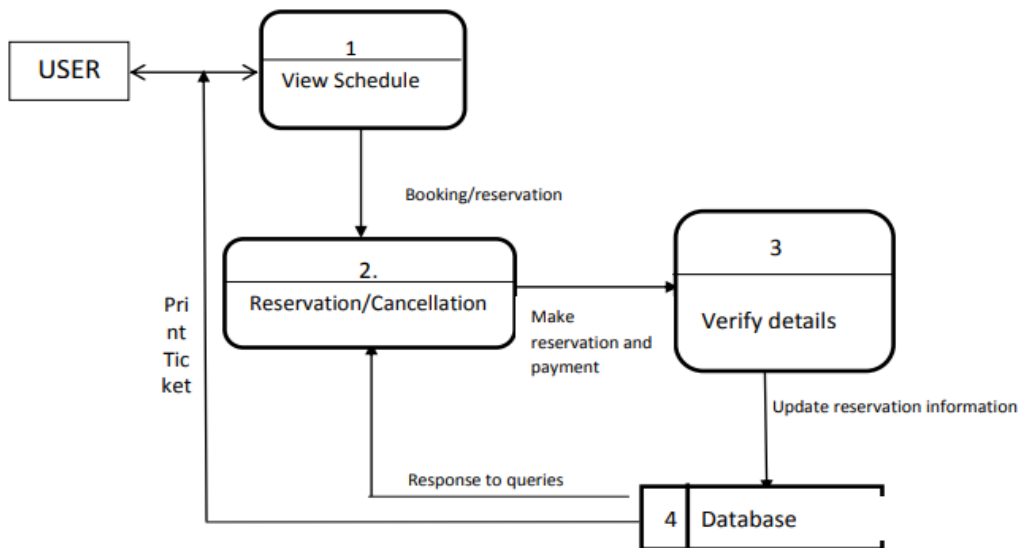
4.1 Relationships diagram



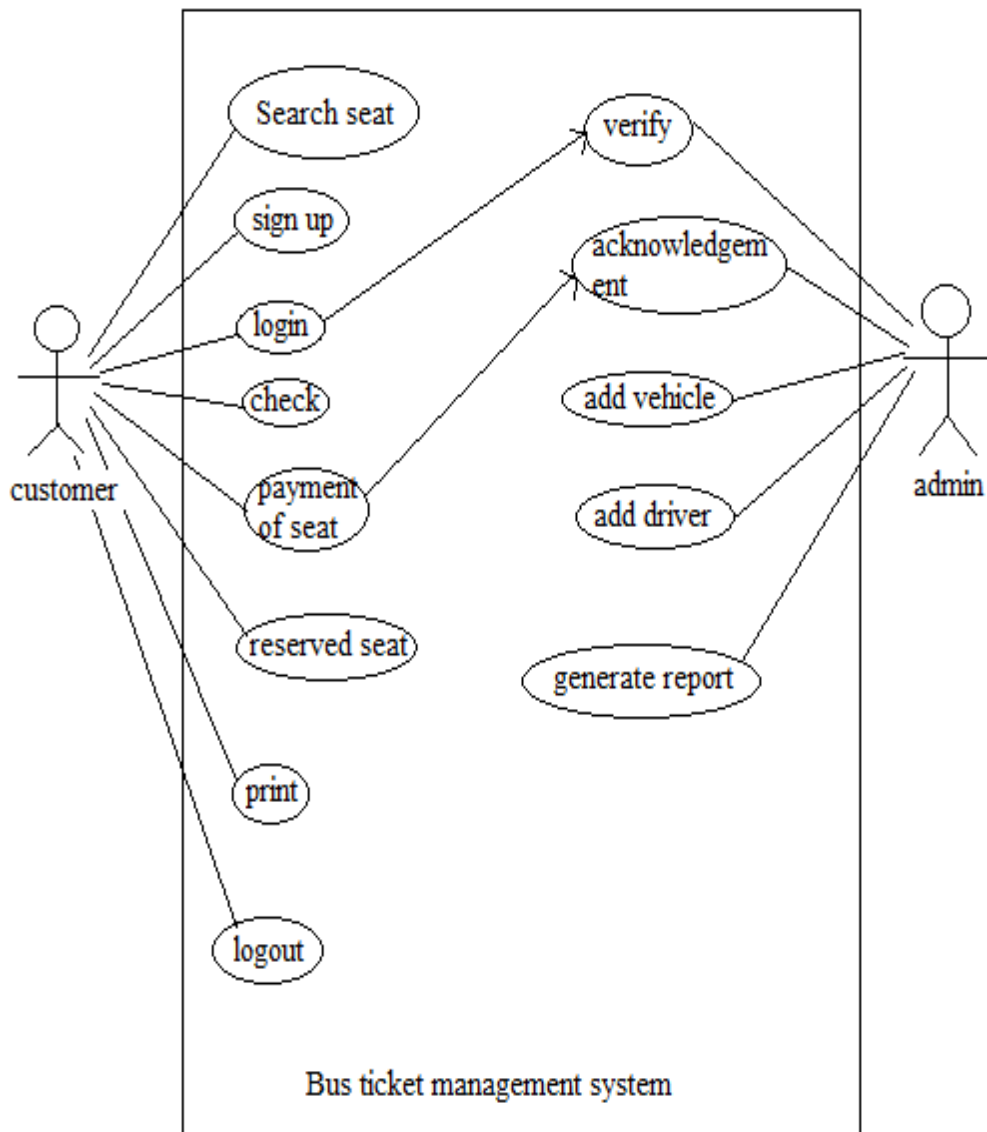
LEVEL 1



Level 2



4.2 User Case Diagram



5. Screenshots

After, the implementation process of the interface along with the functioning of the process. Below are some screenshots of the interface of the bus ticket management system.

Here are all the snapshots of the interface of the bus ticket management system.

5.1 The Login Page

Login Here

User Name

Password

Login

New Member? [SignUp](#) | [Forgot Password](#)

5.2 Dashboard

TrueBus

Online

Bus Management <

Route Details <

Board Point Details <

Drop Point Details <

Gallery

Agent <

Settings

Cancellation <

Booking Details

Seat Layout

Rating

Add Setting Details

Home > Settings > Add Settings

Add Setting Details

Title

SmtP Username

SmtP Host

SmtP Password

Sender Id

SmtP Password

SmtP Username

Save

Sms Password

Logo No file selected.

Favicon No file selected.

5.3 Book Ticket

DATE & LOCATIONS ▾

One Way **Roundtrip**

Departing:

From:

To:

Check Availability

Select trip type - one way or roundtrip. Then select Departing (and Returning) date. From the drop down menus select your departure and arrival cities. On the next screen you will see available buses, tickets and seats.

5.4 User Details

Seat Number
Auto Generated [view seat](#)

First Name
Enter first name

Last Name
Enter last name

Address
Enter Address

Contact
Enter Contact Number

Slip Number
Enter Bank Slip Number

Amount Paid
Enter Amount Paid

Confirm

6. Conclusion

It can be observed that computer applications are very important in every field of human endeavor. Here all the information about customer that made reservation can be gotten just by clicking a button with this new system, some of the difficulties encountered with the manual system are overcome. It will also reduce the workload of the staff, reduce the time used for making reservation at the bus terminal and also increase efficiency. The application also has the ability to update records in various files automatically thereby relieving the company's staff the stress of working from file security of data.

This project, as a whole, will give a new way in bus reservations and ticketing processes. The automation and management of seats and reservations will be done online. However, this project does not limit the walk-in passengers that is passengers who visit the company's counter because it also caters for them.

This also lessens the use of papers like in the traditional way of ticketing.

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