

# **CLOUD BASED BUS TICKET SYSTEM**

## **PROJECT REPORT**

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MINI PROJECT (ICI552)

Degree

**BACHELOR OF COMPUTER APPLICATION**

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**FACULTY OF ENGINEERING & COMPUTING SCIENCES**

**TEERTHANKER MAHAVEER UNIVERSITY, MORADABAD**

## **DECLARATION**

We hereby declare that this Project Report titled **CLOUD BASED BUS TICKET SYSTEM** submitted by us and approved by our project guide, Faculty of Engineering & Computing Sciences. Teerthanker Mahaveer University, Moradabad, is a bonafide work undertaken by us and it is not submitted to any other University or Institution for the award of any degree diploma / certificate or published any time before.

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**A: Data Flow Diagram (DFD)**

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## **Project Title : CLOUD BASED BUS TICKET SYSTEM**

The CLOUD BASED BUS TICKET SYSTEM is a website which is created with the aim to helping the students and passenger get bus passes online and eliminate the need of standing in queues for passes or collecting a ticket for each journey.

The site may get overloaded due to huge number of users visiting at once. Thus this system is built up using cloud infrastructure for improved performance.

In addition, the online system lets the customers check the availability of the bus ticket before they buy bus ticket. Furthermore, customers no need to pay cash to buy bus ticket because they can pay the bus ticket by using Credit Card (e.g. Master Card, Visa Card).

Hence, there is a need of reformation of the system with more advantages and flexibility. The Bus Scheduling and Booking System eliminate most of the limitations of the existing software. Bus pass web system to put it simply, means system can provide pass identification using BAR code, Pass renewal, cancellation, updating, Student discount etc.

- Using this website we can check all details related Bus pass and instruction like how to renew pass how to update it, and also provide details of student discount.
- This website keeps all information of all Bus passes.
- Passengers first need to verify themselves the system using various through registration. Once verified the system allows them to book passes for any route online.
- Users can recharge through cc debit cards.

## **Problem Statement**

Customer can buy the bus ticket over the Internet, 24 hours a day throughout the week, this solves the issue of bus ticket being misplaced or stolen. Users can recharge through cc or debit car.

Currently, the type of system being used at the counter is an internal system which is manually used in selling the bus tickets. The problems facing the company are that customers have to go to the counter to buy bus ticket or ask for bus schedule, customers will also have to queue up for a long time in order to secure a bus ticket and will also need to pay cash when they buy the bus ticket.

## Project Description

The Bus Ticket System is a 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 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 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.

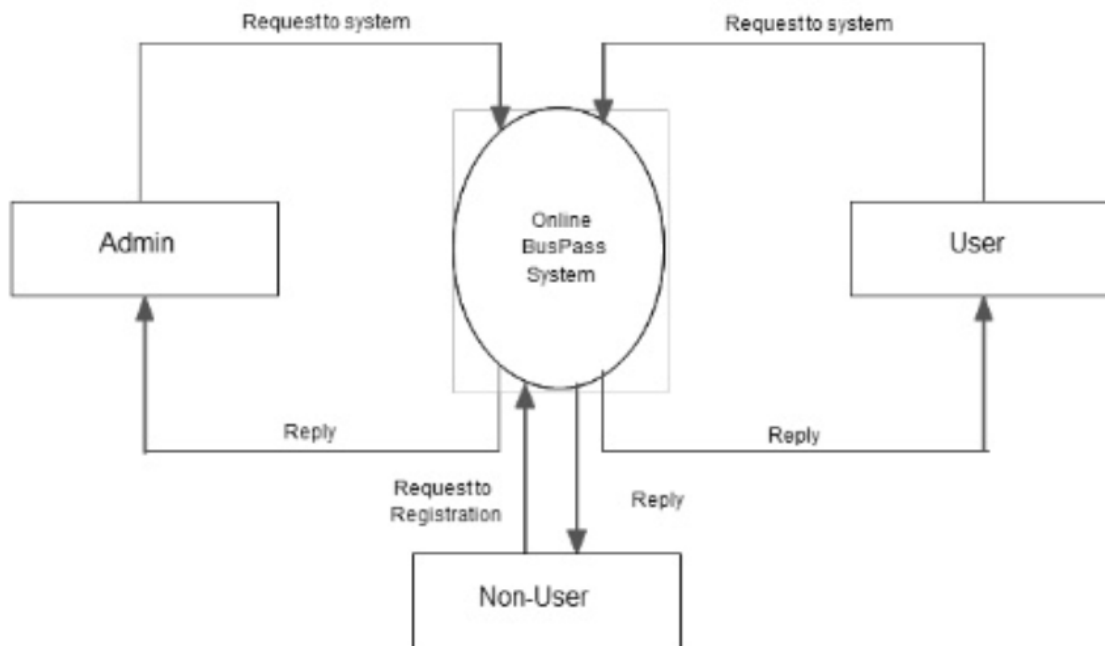
### 1.1 Scope of the Work

The profit for the bus company will be increased because the online system will attract more customers and no need to hire many staffs at the counter to sell bus ticket because ticket can be sold efficiency online. Furthermore, the owner can schedule bus roots based on the margin returns. This is done through bus performance comparison. This project aims to provide an effective solution for maintaining Bus pass information using a database. The system has two logins, one for user and other for admin. Online bus pass Generation system is a web application for people to get Bus passes through online.

### 1.2 Project Modules

- Signup page implementation
- Creating a Database
- Binding all login+ Signup+Database
- Creating the home page
- Provide a website connection to cloud

### 1.3 Context Diagram (High Level)



## Implementation Methodology

For any project to be completed, it has to go through stages called Development Life Cycles. System Development Life Cycle (SDLC) is the process of understanding how an Information System can support business needs, designing the system, building it and delivering it to users. The SDLC composes of four phases: Planning, Analysis, Design and Implementation. In order for this project to be developed, the methodology that will be used is the System Structured Analysis and Design Methodology.

## Technologies to be used

### 1.4 Software Platform

#### a) Front-end

Cloud(aws),HTML,CSS

#### b) Back-end

PHP, MYSQL

### 1.5 Hardware Platform

- Cloud Server
- Processor – i5
- Hard Disk – 256 GB, SSD
- Memory – 8GB RAM

### 1.6 Tools, if any

- Xampp Server
- Filezilla

## Advantages of this Project

- You can find all the bus pass related information online without going to the bus station.
- This online bus pass software system will help students and passengers get bus passes online and eliminate the need of standing in queues for passes or collecting a ticket for each journey.
- The payment can be done online.
- Passengers don't have to waiting time in queue.
- It is a fast process.

## Assumptions, if any

A cloud-based bus ticket solution is more flexible in terms of maintenance, accessibility, extensibility, communication, and customers can track the progress of their tickets from anywhere using different devices as long they have an internet connection.

## Future Scope and further enhancement of the Project

The scope of ticketing system is to provide a system that allows an organization to track and manage customer support requests.

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 a ticket, or cancel a ticket 24X7.

## Project Repository Location

S#	Project Artifacts (softcopy)	Location (Mention Lab-ID, Server ID, Folder Name etc.)	Verified by Project Guide	Verified by Lab In-Charge
1.	Project Synopsis Report (Final Version)		Name and Signature	Name and Signature
2.	Project Progress updates		Name and Signature	Name and Signature
3.	Project Requirement specifications		Name and Signature	Name and Signature
4.	Project Report (Final Version)		Name and Signature	Name and Signature
5.	Test Repository		Name and Signature	Name and Signature
6.	Project Source Code (final version) with executable		Name and Signature	Name and Signature
7.	Any other document		Name and Signature	Name and Signature

## Definitions, Acronyms, and Abbreviations

Abbreviation	Description
BLOGS	A website where a person writes regularly about topics of their interest.
REVIEWS	The examining and considering of something if change is necessary.
CATEGORIES	All types of the tickets .



## 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.

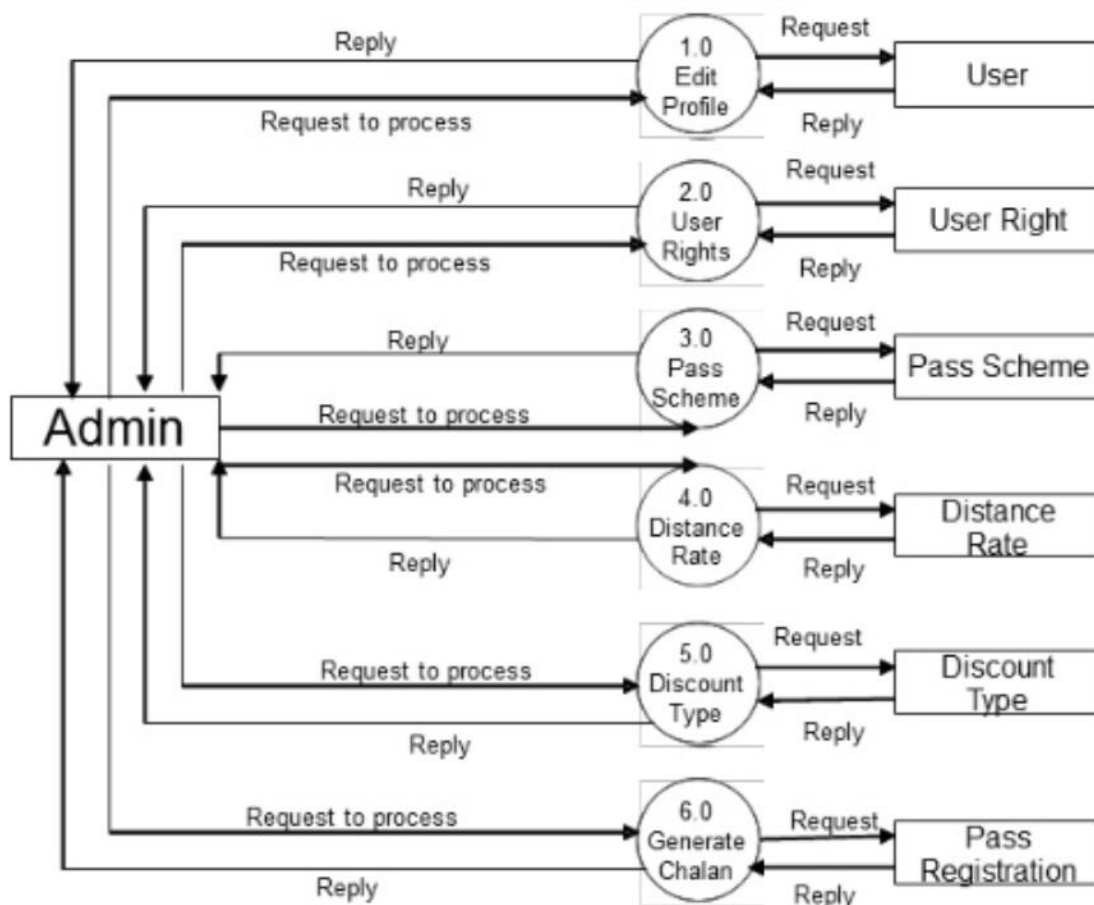
THANK YOU.

## References

S#	Reference Details	Owner	Version	Date
1.	Project Synopsis			
2.	Project Requirements			
3.				

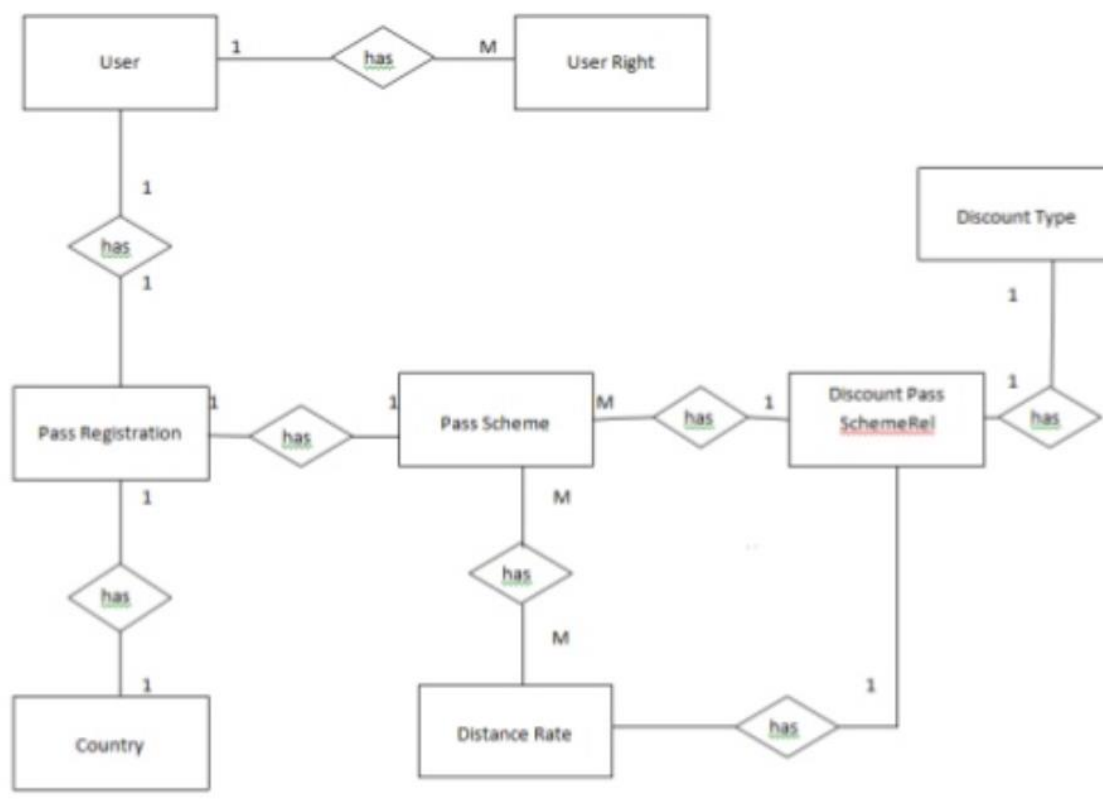
## Annexure A

### Data Flow Diagram (DFD)



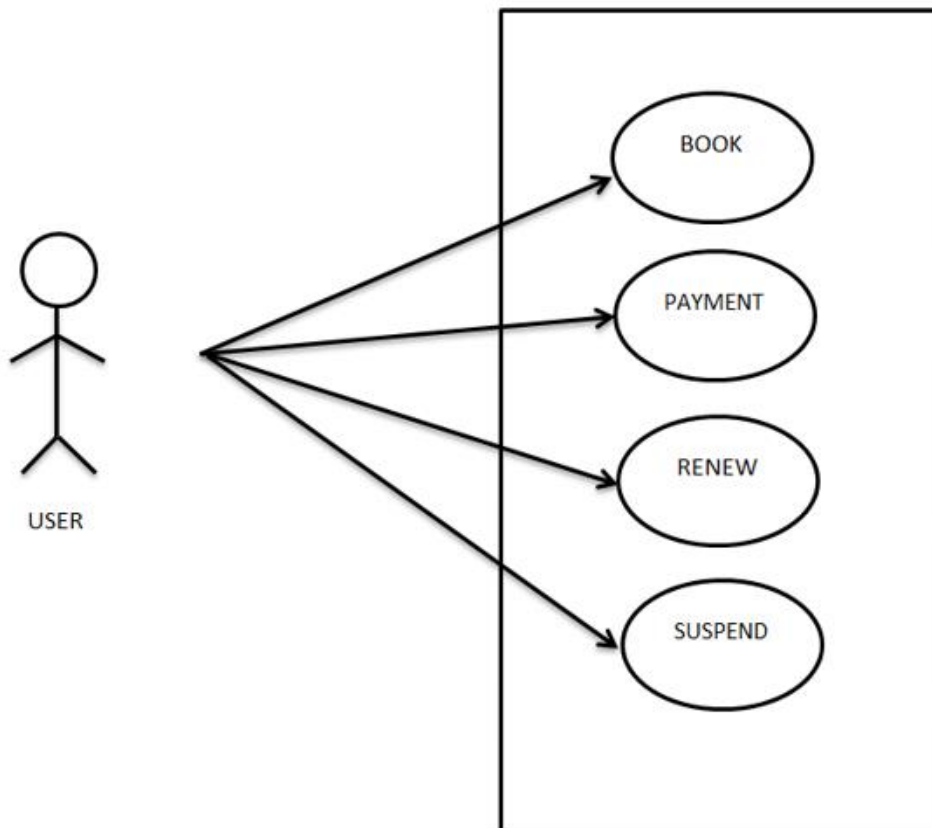
## Annexure B

### Entity-Relationship Diagram (ERD)



## Annexure C

### Use-Case Diagram (UCD)



## Annexure D

### Data Dictionary (DD)

#### Example:

##### User Table (USR)

Fields	Data type	Description
USR-Name	Text	Admin name
USR-Password	Text	Admin password
USR-Contact-No	Number	Admin Contact
USR-Address	Text	City

##### Supplier Table (SUPP)

Fields	Data type	Description
SUPP-ID	Number	Supplier ID
SUPP-Name	Text	Supplier Name
SUPP-Address	Text	Supplier Address
SUPP-Contact	Number	Supplier Contact
SUPP-Credit-Limit	Number	Credit Limit

## Annexure E

### Screen Shots

#### Home Page:

