

**KIET Group of Institutions, Ghaziabad**  
***Computer Science and Information Technology***



**Project Synopsis**  
**on**  
**Bus Reservation System**

**SUBJECT: Data Structures using C**  
**(KCS-351)**

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## **PROJECT TITLE:** Bus Reservation System

## **TECHNOLOGY USED:**

- 1) Language Used: C++
- 2) Programming tool: Visual Studio Code
- 3) Data Structure used: Arrays

## **BRIEF DESCRIPTION:**

- The project is based on the topic of Bus Reservation System to provide ease to the passengers for booking tickets for their journey. This system aims to reduce the hassle at the BUS terminals or ISBT's. It will be very convenient for the passengers to book the tickets for their journeys even before arriving at the Bus terminal.
- This system promotes commission free travel, it will be easier for the passengers to select their desired seats and plan their journey, it provides peace of mind to the passengers.
- It helps in improving the system by collecting the data and processing it further for benefits of the passengers.

## **PROBLEM STATEMENT:**

- The project for the bus reservation system does not use files to store bus information. As a result, any previously saved information on the features is lost after each run of the program.
- You are urged to include file handling in this project to store all the bus information and make it fuller and more effective. This very straightforward project was created solely to demonstrate the C++ language's class and object implementation procedures and strategies.

## **PROPOSED SOLUTION:**

It is done using classes and functions in C++. The record of the bus can be added, a list of available buses, make the reservation and show the details. It is a simple project made using the console application of C++. This means, no graphics component is added. The main target user of this project is the C++ beginners who want to make the project in C++ and especially those who are interested in learning the Class in C++ language. This project is a complete package to learn how to use a file as a database.

Features of this project are as below: -

- Add the bus record
- Make the Reservation
- Show the bus details
- Show all buses available

The bus reservation system is an extremely straightforward project that demonstrates the C++ language's class and object implementations. This project may be understood with very little effort, and it will teach you how to make a class and an object in your Bus Reservation System Project in C++.

## **OUTCOME:**

- This system aims to reduce the hassle at the BUS terminals or ISBT's. It will be very convenient for the passengers to book the tickets for their journeys even before arriving at the Bus terminal.
- It will be easier for the passengers to select their desired seats and plan their journey, it provides peace of mind to the passengers.