

# Train Management System

*Progress report*

**OOPL Final Project**

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## ABSTRACT

The Railway Reservation System facilitates the passengers to enquire about the trains available on the basis of source and destination, Booking and Cancellation of tickets, enquire about the status of the booked ticket, etc.

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# Contents

1	Introduction	4
2	Purpose	4
3	Proposed Approach	5
4	Conclusion	6
5	Bibliography	7

# 1 Introduction

In this project, we have tried to show how the process of travelling on a train is done. That how we go through a number of procedures like:-

- Going to a website
- Searching the Available Trains

And then the booking procedure goes like:-

- Enter Starting Point and Destination
- Number of trains going through that route
- Number of seats available
- Price for the seats in each class

Storing Passengers details like :-

- First Name, Last Name
- Age
- Aadhaar Number
- Which class ticket they want to buy

And after storing all the information at last we print the ticket of the passenger.

- The Passenger can also view the information regarding his/her ticket through our view ticket function.
- So in this project we have tried to show how all these procedures are done through a program.

## 2 Purpose

The project is for Train Management System

- It Shows Available Test
- It books Train Seats
- Shows Train Details
- Has a Profile Section
- Is A Menu Driven Program for comfortable UI

### 3 Proposed Approach

- We started creating the classes for this Management System starting from Ticket class which had all the necessary details regarding a particular passenger i.e.Name, Age, Source, Destination etc.
- We used various concepts of Object Oriented Programming Concepts such as Data Abstraction, encapsulation, inheritance, constructors implemented through classes and objects.
- Finally we used main() function to initiate our program where it asks the user to enter its username and then a password through which the user can access this Train Management System. If the user provides incorrect password then the system throws an error saying "Incorrect Password!!" and terminates the program, otherwise it presents the user a main menu window where the user can perform their required operations.

## 4 Conclusion

Taking into account all the mentioned details, we can make the conclusion that the Train management system is the inevitable part of the lifecycle of the Travelling. It automates numerous daily operations and enables smooth interactions of the users. Developing the Train management system software is a great opportunity to create the distinct, efficient and fast delivering Booking. Implementation of Train management system project helps to store all kinds of records, provide coordination and user communication, implement policies.

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