Date	19 September 2022
Team ID	PNT2022TMID14953
Project Name	Smart Solutions for Railways
Maximum Marks	4 Marks

SMART SOLUTIONS FOR RAILWAYS

ABSTRACT:

Almost all the countries across the globe strive to meet the demand for safe, fast and reliable rail services. Lack of operational efficiency and reliability, safety and security issues, besides aging railway systems and practices are haunting various countries to bring about a change in their existing railway systems. The global rail industry struggles to meet the increasing demand for freight and passenger transportation due to lack of optimized use of rail network and inefficient use of rail assets. Apart from this major problem, people are suffering while booking tickets. So the web application is designed to reduce the workload of the user and also the use of paper. Here in this project, we are going to design aweb application which is useful for booking tickets.

INTRODUCTION:

Our project is based on the web application for booking ticket. Nowadays people are working in busy schedule, they can't able to go for railway station and fill the form and waiting there for when will the counter is free. So, avoid these kinds of this sensible activities. We can handle booking the ticket in this web application. while applying this we can reduce the paper, and printing machine. and the ink we are giving to the machine. The passenger reservation system of Indian railways is one of the world's largest reservation Smart solutions for railways is an idea where we can many problems while booking models. Daily about one million passengers travel in reserved accommodation with Indian railways. In this vast system, it is a herculean task to efficiently handle the passenger data, which is a keypoint of consideration nowadays. But the implementation of the latest technological updates in this system gradually turns inevitable due to increasing demand for providing the most efficient passengers services.

Software requirements specification:

Software requirement: Python idle

Hardware requirement: RAM-Minimum 4GB Processor-Min. Configuration OS-Windows/Linux/MAC, 250GB hard disk space and other standard accessories.

SURVEY:

1. Railway passenger frequently need to know about their ticket reservation status, ticket availability on a particular train or for a place, train arrival or departure details, special trainsetc.
2. Customer information centers at the railway stations are unable to serve such queries atpeak periods.
3. The number of the reservation counters available to the passengers and customers are veryless'
4. On most of the reservation systems they are long queries, so it takes a long time for anyindividual to book the ticket'
5. As now there are no call centers facilities available to solve the queries of the passengers.
6. The online railway ticket reservation system aims to develop a web application which aims atproviding trains details, train availability, as well as the facility to book ticket in online for customers,
7. So, we thought of developing the web-based application which would be provide the users allthese facilities from his terminal only as well as help them in booking tickets. The application was to be divided into two parts namely the user part, and the administrator part and each ofthese has their corresponding features.
8. Our website has various kind of information that's helps regarding booking of ticketsrailways.
9. It also reduces the paper work. It's totally going to be an online based. In future there is going to be a ticket booking counter.