**SMART SOLUTIONS FOR RAILWAYS**

# INTRODUCTION:

An idea for smart rail systems is that we can solve numerous ticketing issues. Our project is built on an online ticket booking application. Due to their hectic schedules, many today are unable to go to the railway station, fill out the form, and wait there until the counter opens. Therefore, stay away from such sensible hobbies. We may manage the ticket purchase using this website application. By using this, we can use less printer ink, paper, and other supplies while still getting the same results. One of the biggest reservation models in the world is the Indian Railways' system for booking passengers. With Indian Railways, a million passengers travel in reserved accommodations each day. It is in this huge system. But as demand grows for the best passenger services, it gradually becomes necessary to adopt the most recent technology advancements in this system. The security breaches could be supported by handling the passenger data with efficiency, supported by intelligent processing and prompt retrieval. In this essay, we examine a few railway-related problems and their potential fixes as they relate to the people who frequently ride trains.

# SURVEY:

1. 1. Train passengers usually need to know the status of their reservations, whether there are still tickets available for a specific train or location, as well as information on special trains and train arrival and departure times.
2. During times of high demand, customer information centres at railway stations are unable to respond to such inquiries.
3. There are extremely few reservation counters available to consumers and travellers.
4. The majority of reservation systems have lengthy questions, making it difficult for anyone to book a ticket.
5. As of right moment, there are no call centre services available to address the passengers' questions..
6. It also reduce the paper work. Its totally going to be a online based.
7. In future there is going to be a ticket booking counter.
8. The online railway ticket reservation system intends to create a web application that provides users with train information, train availability, and the option to order tickets online.
9. We thus considered creating a web-based application that would enable users to access all of these features from a single terminal and assist them in making reservations.
10. The application was to be split into two sections: a user section and an administrator section, each with its own set of functions. 8. Our website offers a variety of information that can be used to order train tickets.

# ABSTRACT:

Almost every nation on the planet works hard to accommodate the demand for safe, quick, and dependable train services. A number of nations are struggling to make changes to their current railway systems due to concerns with operating efficiency, dependability, safety, and security as well as deteriorating habits. Because the rail network is not being utilised to its full potential and rail assets are being used inefficiently, the global rail sector struggles to keep up with the rising demand for freight and passenger transportation. In addition to this significant issue, people experience difficulties when booking tickets. Therefore, the web application is made to lessen both the user's effort and the need for paper. In this project, we'll create a web application that's helpful.

# Software requirements specification:

## Software requirement:

Python idle

### Hardware requirement :

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