

SMART SOLUTIONS FOR RAILWAYS

TEAM ID : PNT2022TMID32277

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PROBLEM STATEMENT

Smart solutions for railways is designed to reduced the work load of the user and also the use of paper .

Here in this project we have all the features shown below .

A website is designed for the public where they can book tickets by seeing the available seats.

After booking the train, the person will get QR code which has to be shown to the ticket collectors can scan the QR code to identify the personal details.

Objective:

- *A web page is designed for the public they can book tickets by seeing the available seats .*
- After booking the train, the person will get a QR code which has to be shown to the Ticket Collectors can scan the QR code to identify the personal details.
- A GPS module is present in the train to track it. The live status of the journey is updated .

Literature Survey 1

Paper Title : Automatic Fault Detection of Railway Track System Based on PLC

Author Name : Naveen Bhargav

Published Year : 2016

Source : International Journal of Recent Research Aspects

Objective : The sensor is used to detect defect in the train track and the ultraviolet sensor is used to detect the obstruction in front of the train.

Literature Survey 2

Paper Title : Railway track fault detection system using IR sensors & Bluetooth technology

Author Name : Siva Rama Krishna

Published Year : 2017

Source : Asian Journal of Applied Science and Technology

Objective : In the event of any defect on the track defect using IR sensors & then it sends a message to the android phone using a Bluetooth module.

Literature Survey 3

Paper Title : Automatic Railway track fault detection for Indian railways

Author Name : Parvathy A

Published Year : 2017

Source : IEEE

Objective : The Automatic Railway Route automatically detects the fares of the Indian IEEE Rail Automatically and detects cracks very quickly without human intervention.

Literature Survey 4

Paper Title : Train track fault detection system

Author Name : Swati D. Patil & Pallavi. M. Taralkar

Published Year : 2018

Source : International Journal of Current Engineering and Scientific Research

Objective : Rail crashes have been identified as a major cause of accidents in the past. So, the solution to this problem is using the robot to detect cracks in the train track and when the robot detects an error it sends a message to the base station.

Literature Survey 5

Paper Title : Automated Railway Track Fault Detection System Using Robot

Author Name : Mansi R. Sarwan

Published Year : 2018

Source : International Conference on New Frontiers of Engineering, Management, Social Science & Humanities

Objective : An IR (Slot sensor) assembly that tracks the exact location of a faulty track was quickly repaired so that many lives could be saved.

