

PROBLEM SOLUTION: SMART RAILWAY SOLLUTION

LITERATURE SURVEY:

Title	Year & Author	Technology	Advantages	Disadvantages
Smart Metro Rail Ticketing System	YEAR:2019 Nair, M Abhishek and Taunk, Smit and Reddy, Panyam Gangadhar and Sultana, H Parveen	Fingerprint sensor ,Arduino	user can book tickets directly from their mobiles and there is no need for a separate kiosk for that purpose.	Counter ticket has to be handled with care, but SMS on mobile is more than enough.
Local train ticketing system using web services	YEAR:2022 Sheeja, Raghavan and Umaeswari, P and Bibin, Chidambarathan and Nishanth, R and Chandana, S Hari	IOT,LTE	The generated ticket is in the form of PDF with the Quick Response Code (QR-code).	Removing the bottleneck of phone booking systems
Ticket-booking patterns and policy implications	YEAR:2022 Xie, Jiemin and Zhan, Shuguang and Wong, SC and Wen, Keyu and Qiang, Lixia and Lo, SM	IOT	You can maximize reservations	You need to be ready for an influx of new customers
5G key technologies for smart railways	YEAR: 2020 Ai, Bo and Molisch, Andreas F and Rupp, Markus and Zhong, ZhangDui	mmWave, URLLC, IoT, AI.	Efficient BF for High Speed Train in LowMobility User Existence Scenario	The current number of pilots is not enough to enable orthogonal pilots from all APs
The Internet of smart trains	YEAR:2017 Fraga-Lamas, Paula and Ferns, Tiago M and Castedo, Luis	PIS,LTE, ETCS	Trains are capable of hauling large loads	Unsuitable for perishable and fragile items
Smart ticketing system for railways in smart cities using software	YEAR:2017 D'silva, Godson Michael and Scariah, Anoop Kunjumon and Pannapara,	AWS,IOT,Rasperryypi,Lambda	Durable / Efficient	Not suitable for longer distances

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	Lukose Roy and Joseph, Jessica			
Smart Train Accident Detection And Prevention System Using Iot Technology	2021,Devi, R Lakshmi and Saravanan, G and Sangeetha, K and Pavithra, S and Thiyagarajan,s	IOT,AI,Sensor	Technology is used to detect the obstacle and it gradually slow down the speed of the train by applying the air brake to stop the train	Anti-collision system is to identify collision points and to avoid it by stopping the train engine
Towards the Internet of smart trains	Towards the Internet of smart trains	Towards the Internet of smart trains	More Efficient Operations to New Business Models by P Fraga-Lamas	This work proposes a set of solutions aimed at detecting and handling network and sensor failures to ensure continuity in the execution
Enhancement of Railways Reservation System using Internet Of Things	YEAR:2018 Mallikarjuna, B and Reddy, D Arun Kumar and Sailaja, G	Long Term Evaluation (LTE), fifth generation (5G), Long Term Evaluation (LTE), fifth generation (5G)	The passenger vending machine read the passenger details that can be interacted with railway reservation system to UIDAI database	Correct flow internet access needed
Effectiveness of the E-Ticket System Using QR Codes For Smart Transportation Systems	YEAR:2021 Kuncara, Tommy and Putra, Arman Syah and Aisyah, Nurul and Valentino, VH	YEAR:2021 Kuncara, Tommy and Putra, Arman Syah and Aisyah, Nurul and Valentino, VH	The Opportunity to Communicate One-on-One.	Cheated by illegal workers. they may take the money but our booking of tickets would not be done.