SMARTSOLUTIONFORRAILWAYS

DomainName	InternetOf Things(IoT)
ProjectName	Smartsolutionforrailways
TeamID	PNT2022TMID49411

Objective:

Paper pen works takes time and can be time consuming. People in thiscurrentfast worldwon'tliketostillstandina queueandbooktickets. Andmostimportantly, nowadays most people have a smartphone on their own. So that implementing the solution proposed won't be a challenging task. In fact, compared to the traditional method of booking tickets standing in a queue, ourmethod has alotof advantages.

Our solution is to design a website where we can book ticket and receive QRCodewhichcanbescannedduringboarding. Passengers can also monitor the train status and as well as they are alerted through mobile before their destination arrives.

There won't be any loss in implementing this solution proposed by us. In fact, thetruth is the **Tamil Nadu government has been already involved in developingandpromotingthesolutionproposedbyusbyproviding60%discounts tothosepassengers who book tickets through online** in Chennai Metro Rail Service(CMRL) understandingtheadvantages.

And Finally, Digitizing the booking and verification process & alert passengerbefore their destination arrives. Digitizing the works reduces manual paper

penworkanditbecomeseasierandtimesaving. Because of the smartchanges that can be introduced by implementing in the railway system, **Our Indian Railwayscanbecalledas "SMARTRAILWAYS".**

LITERATURESURVEY

PAPERNAME	AUTHOR	YEAR	METHOLOGY	MERITS	DEMERITS
PassengerMonitori ngModelforeasilyAc cessiblePublic CityTrams/Trains.	Roman Khoeblal,Teeravi sitLaohapensaen g,RoungsanChais richaroen	2015	Passengermonitori ng,passenger controlRFID distancereading, ticketcontrol,RFIDt icketinspection.	Itispossibletot ravel crosscountry with asinglepublictr ansportationc ard, usingtransport systemsofseve raltransportop erators.	Applicableon ly forpassenger monitoring.
Application ofsmartcomputingi nIndian RailwaySystems.	ParagChatt erjee,Asok eNath	2014	By Interlinkingunique identificationsyste m with trainticket reservationsystem byusingvideo surveillance,rail sensors,biometrici nputdevicesandm ultimediadisplays.	Reduces manualeffort inpassenger dataentry. Providessecuri tyverification.	Significantinv estment isneeded. Risk ofdatabase.
Android SuburbanRailway TicketingwithGPS asTicketChecker.	Sana Khoja,MaithiliK adam	2012	Android, SQ lite,Cloud Database,ASR,Q RCode.	E-Ticket facility,enabling reuseandreplac ement ofcomponents.	QR Codesbefore theuser enters orleaves thestation, wherethe user canhave accesswhich is risk inticketbookin g.

NovelApproachforS mart IndianRailways.	Sujith Kumar,K.M.Yathee ndraParvan,V.Su mathy,Thejeswari C.K	2017	Digitalization, SmartRailways, AadharCard, Smartphone,Identit yVerification.	Employ a mobileapplicatio nthrough whichpassenger s canaccess variousticketing optionsin user friendlyand efficientmanner.	Biometricd atabase isrisk ofhacking.
A Review on IOTbased automatedseat allocation andverification usingQRcode.	Sarvath Saba,Sharon Philip,Shrihars ha,Mukund Naik,SudeepS herry	2022	The system lets thepassengertohav eacomfortablejour neybycheckingthe temperaturefirst for normal andthen the count foravoid crowd usingtheQRCode.	This modelproposes aradical changein trainoperation andpassengerex perience. Oneofthe many stepstowards a moredigitizedso cietyas a part of the "Digital India" movemen tproposed in 2015 by the Prime Minist er.	Thesystemis not fool-proofandr equires adramatic changeinthe existingsyste minterms of thepeopleall owed onplatforms, etc.but baby stepsmatt er.

Reference:

- 1. RomanKhoeblal, Teeravisit Laohapensaeng, Roungsan Chaisricharoen, "Passenger Monitoring Model for easily Accessible Public City Trams/Trains" (2015).
- 2. Parag Chatterjee, Asoke Nath, "Application of smart computing in Indian RailwaySystems" (2014).

- 3. Sana Khoja, Maithili Kadam, "Android Suburban Railway Ticketing with GPS asTicketChecker" (2012).
- 4. SujithKumar,K.M.YatheendraParvan,V.Sumathy,ThejeswariC.K,"NovelAp proach for SmartIndianRailways" (2017).
- 5. SarvathSaba,SharonPhilip,Shriharsha, MukundNaik,SudeepSherry, "AReviewonIOTbasedautomatedseatallocationandverificationusingQRcode" (2022).