

SMART SOLUTION FOR RAILWAYS

ABSTRACT

Indian Railways is the premier transport organization of the country is the largest rail network in Asia and the world's second largest under one management. Consumers have fast adapted to digitalization in the retail and banking space. The transport industry, including rail companies, is also transforming to meet passenger expectations with superior services. They offer e-tickets, scheduling information, and other solutions to travelers via smartphones and emails. A web page is designed for booking tickets which generates a QR code that is scanned by the ticket collector. The live location of the individual passenger is tracked using GPS module and stored in the cloud. The QR code contains a unique ID which contains the complete information about the individual passenger that is stored in cloud. IoT can help take this experience a step ahead.

PROBLEM STATEMENT AND USE CASES

- **BOOKING TICKETS IN THE DEVELOPED WEBSITE –**

To book a ticket in the website it requires general personal details of the passengers such as mobile number, Aadhaar number, Age groups, Name etc. These information's are stored in the cloud and then generates a QR code which contains a unique ID.

- **DEVELOPMENT OF WEB APP -**

The web app is used to scan the generated QR code which contains the passenger's information. At the time of boarding onto the train the ticket collector scans the QR code to get previous travel information and the current travel details of the individual passenger that is been already stored in the cloud.

- **TRACKING THE LIVE LOCATION –**

The GPS module is present in the train that tracks the live status of the journey is updated in the developed web app continuously.