INTRODUCTION:

Indian Railway is India’s third largest human transport system over which 2 crore passengers travel daily all over India. Even if there are seat available random people who don’t buy tickets enter the compartment and buy tickets from the tc. Due to this, peak seasons take place and more than half of the passengers having tickets of waiting suffer. The number of passengers in Indian Railway has been increasing drastically in every year, in a rate of 25 to 50 percent. Such increase also increases the number of waiting list passengers in every train.

OBJECTIVE:

1. Smart way to scan ticket through QR code.
2. Chart system of checking is eliminated.
3. Check-in, Check-out, on-spot booking procedure.
4. Dynamic seat allocation for waiting list passengers.
5. SMS Alerts are sent to the mobiles.

METHODOLOGY:

2.1. CHECK-IN.

- Passenger places his Mobile Phone or ticket in his hand near Hand Held Terminal of TTEs to read QR barcode for check-in.
- A TTEs uses application of his Android HHT to read the QR Code over the ticket or from the screen of passenger’s phone and verifies it.

2.2. CHECK-OUT

- TTE press the check-out interface and scan the QR code.
- HHT redirects to PRS server and fetch the passenger detail.

2.3. BOOKING

- This is used when a passenger is boarded in the train without ticket.
CONCLUSION:

This project proposes digital devices that are implemented by which manual and chart systems are eliminated, by which revenue of railway is increased procurement of tickets by touts is eliminated. It also attempts to reserve each and every seat even vacant for one station to next station.

FUTURE WORK:

When any passenger drop out at any particular station before his/her destination, the vacant seat can be allotted to other passenger by a device provided at that particular compartment/coach, by scanning the QRcode which automatically upgrades to the TTE.