

Online Metro Ticket Booking Web-Application

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Abstract:

An increase in population has led to the growth of traffic in India. To ease the traffic situation in the country and make travel convenient for the people, the government has introduced the metro rail in many cities. It is a cheap mode of travel, which helps in reducing the energy consumption, is eco-friendly, and is the reason behind the prevention of accidents. The modern design of metro coaches, the stylish appearance of metro stations, and superior comfort facilities are some of the reasons why metro is becoming popular in Indian

Keywords: -Nagpur Metro, Fare, Routers, Timetable, Stations, QR code

1. Introduction:

This is an integrated service which provide all information about the metro rail and its routes for public. The proposed is an web based application which provides information regarding timings, routes, fare. This system manages public feedback about services through it's management system .There is also an admin module where admin can add stations, trains, routes and also update the fares. The admin is a panel consisting of a group of authorized persons. Efficient, safe and secure transportation networks are the foundation of all modern cities development and substantiality. The most sought- after intelligent solutions refers to the deployment of mobile computing and connectivity in every part of an interconnected transportation system.

2. Literature Review

A. NAGPUR METRO

The existing Nagpur Metro Rail Corporation Limited (NMRCL) which is a joint Special Purpose Vehicle (SPV) of Government of India (GOI) and Government of Maharashtra (GOM), has been reconstituted into Maharashtra Metro Rail Corporation Limited (MAHA- METRO) for implementation of all metro projects in the State of Maharashtra outside Mumbai Metropolitan Region. The project will benefit from experience and learning's from other Metro Rail projects in Delhi, Bengaluru, Chennai, Kochi, Nagpur etc.

B. CHENNAI METRO RAIL

S. Vydhanathan (2003) discussed the initially elevated metro rail transport system in Chennai. The metro system has advanced stations comforts, elevators at platforms, lifts for the crippled and the aged. Chennai MRTS ought to be the most appealing travel choice in a metro city that has more than 20 lakh vehicles out and about, congested driving conditions, number of mishaps recorded and rising air contamination. In spite, there are rare commuters in a three- coach train and the stations remain deserted – it's as if the city has for all intents and purposes denied its presence. In spite of the speculation of Rs.20,000 crores, there are no obvious positive returns. Commuters declines to increase, however the local city transports run packed. The time is fortunate to at the end of the day audit the whole approach towards urban transportation issues and concoct a joined methodology towards a rail and road system. Numerous reasons have been credited to the Chennai Metro Rail Transit System as yet remaining a non-starter. The two key reasons appear to have been the higher fare structure further more

C. DELHI METRO RAIL

A metro rail-based system was prescribed by RITES, containing a network of surface, underground and raised corridors accumulating to 213 kms, to stay aware of the traffic demand up to the year 2021. The entire task expense was assessed at Rs. 15000 Crores according to 1996 value level. The system at present handles 2.4 million commuters daily. The first and second phases of Delhi metro have been finished. The DMRC site demonstrates various advantages of metro.

These are: time spared by the workers, Reduction in accidents, reduced fuel consumption, dependable and safe travel, reduced atmospheric pollution, reduced operating expense of vehicles and increase in the normal vehicular speed. This paper exhibits an assessment and analysis of the advantages asserted by the Delhi metro.

Comparable advantages were additionally expected during the planning phases of Kolkata and Chennai metro rail systems. Nonetheless, the execution of metro system in both these urban communities has not satisfied the desires.

3. Problem Definition

The problem occurred before having online system includes:

1. File lost When online system is not implemented the complaints are reported in files. The files are always lost due to some human errors.
2. Most updations are unnoticeable

Admin

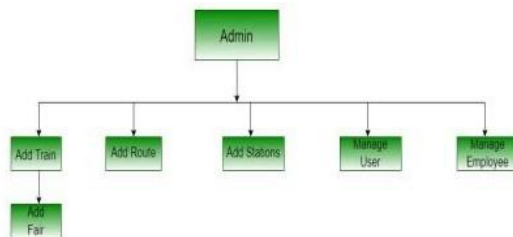


Figure 1. Admin Module

This feature allows the admin to view and reply to complaints. Admin can add stations, route, train. Admin can also add and update fare details, and even add a new admin.

Actually, the admin is a panel consisting of a group of authorized persons. Functional Requirements The system must allow admin to add train, station, routes, fare, metro timetable and even add a new admin. The system must also allow admin to reply to the complaints send by the user.

4. Functional Requirements

System must allow the users to enter the source station and destination stations.

The system should be designed in such a way that only authorized people should be allowed to access some particular modules.

The records should be modified by only administrators and no one else.

User

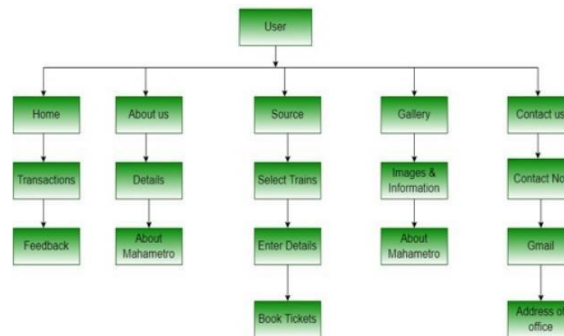


Figure 2. User Module

This module contains various facilities like view time chart between two stations. This feature allows the users to view the metro timetable. Users are required to enter the source station and destination station, when they enter the data then the system will show the metro time table.

Functional Requirements

System must allow the users to enter the source station and destination stations.

System must be able to process information from database.

5. Conclusion

The system has been developed with much care and free of errors and at the same time it is efficient and less time-consuming. The purpose of this project was to develop a web application for metro rail management. This project helped us in gaining valuable information and practical knowledge.

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