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The first railway on Indian sub-continent ran over a stretch of 21 miles from Bombay to Thane. The idea of a railway to connect Bombay with Thane, Kalyan and with the Thal and Bhore Ghats inclines first occurred to Mr. George Clark, the Chief Engineer of the Bombay Government, during a visit to Bhandup in 1843.

Mapping Beneficiaries of Health Services

#IR31   Total Submissions : 6

Identification of Beneficiaries of Railway Health Services at the point of delivery of service can help in preventing pilferage of resources and also help in creating health profile of the patients. It can help in planning resources and man power required. Linkage of Aadhar can also be considered.

Sample Data Required: Yes

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More than 2 crore passengers and 13 lakhs employees use railway infrastructure and offices. Promoting behavioral change among passengers and employees to use energy efficient habits can help in saving energy. A software solution to keep reminding employees and passengers about efficient methods of using electric equipments is required.

Sample Data Required: Yes

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Website security

#IR29   Total Submissions : 9

Data from enquiry websites is being used by several other websites without proper authorization from railways. Unauthorized usage of data puts additional loads on the websites and slows down its performance. A solution to prevent unauthorized data scrapping is required.

Sample Data Required: Yes

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Analysis of Train wise Earnings

#IR28   Total Submissions : 10

A dashboard showing trends in earnings of a train needs to be developed. It will help in planning additional trains, change in composition in a train and monitoring the performance of staff deployed in the train.

Sample Data Required: Yes

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Integration of multiple Railway websites

#IR27   Total Submissions : 12

Sample Data Required: 100

PARTICIPATE

Virtual Tour of Railway Station

#IR26   Total Submissions : 15

A host of facilities are available at major railway stations. However, passengers are often unaware of the location of such facilities. An application to provide virtual tour of Railway Station can be helpful in facilitating the information flow to the passengers.

Sample Data Required: No

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Unification of Railway Apps

#IR25   Total Submissions : 13

Indian Railways have separate mobile Apps for train enquiry, e-ticketing, unreserved ticketing etc. Unification of all the Apps on single platform will increase convenience for the users as well as improve popularity of the App.

Sample Data Required: No

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Disaster Preparedness

#IR24   Total Submissions : 20

Rail accidents cause loss of life, property and hardships to passengers and railways. Participation of all the stake holders viz., passengers, railways, local administration and citizens in nearby areas can help in speedy restoration. A software solution to seek support and get required help in time is required.

Sample Data Required: No

#IR23   Total Submissions : 6

Railway stations are used by two categories of passengers – daily commuters and occasional travelers.   Involving passengers in station upkeep through education and active participation can help in finding a lasting solution. Software to keep people engaged about the need to maintain the railway stations is required.

Sample Data Required: No

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Management of Railway Rest Houses & Holiday Homes

#IR22   Total Submissions : 10

At present, the allocation of accommodation in Railway Rest Houses, Holidays Homes is done manually. The request is to be given in writing and there is no mechanism to advise the applicant about status of booking of rooms. This causes uncertainty and difficulty in planning one's programme. An online system of submitting request and allocation of rooms is required.

Sample Data Required: Yes

PARTICIPATE

Condition of Rail Bridges

#IR21   Total Submissions : 12

Some of the Rail Bridges on Indian Railway network are very old. Monitoring the condition of rail bridges is extremely important for safe train operations. A software solution to monitor the condition of bridges can help in timely maintenance.

Sample Data Required: Yes

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Management of GUI based Multilevel Numbered List

all serial numbers in case of insertion or deletion of row, user to be able to edit any or all serial numbers.

Sample Data Required: Yes

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De duplication of Price List Numbers

#IR19   Total Submissions : 3

All regularly purchased items on Indian Railways are allotted a unique code called Price List Number (PLN). In the database there are lakhs of records. In some cases, same PL Numbers has been allotted to multiple items and in other cases multiple PL numbers have been allotted to same item. An application needs to be developed to suggest duplicate PL Numbers by finding similarity in the PL description fields of different PL Numbers so as to eliminate the duplicity in data.

Sample Data Required: Yes

PARTICIPATE

Travel Planner App

#IR18   Total Submissions : 13

An App to plan the journey with confirmed tickets availability from origin/way side station to be developed.

Sample Data Required: No

PARTICIPATE

Accidents at Unmanned Level Crossings

#IR17   Total Submissions : 54

At several places, railway tracks are at the level of road. Due to resource constraints, no railway staff is posted at many such crossings of railway track and road. Accidents are often reported due to negligence by the road users. A solution to this problem   needs to be developed which is effective and cost efficient.

Ticket Checking System

#IR16   Total Submissions : 64

At present, ticket checking is done on trains, at station exit and also at platforms. Ticket checking is manual process and due to shortage of ticket checking staff, only a small number of passengers are checked. There is need for solution which can ensure 100% ticket checking. The solution should be such that passenger need not have to wait for getting his ticket checked.

Sample Data Required: Yes

Indian Railways Time Table for trains available for reservation as on 03.08.2015	https://data.gov.in/catalog/indian-railways-train-time-table-0
Traiffic Density Statistics upto 2013-14	https://data.gov.in/catalog/train-traffic-density-statistics

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Preventing Untoward Incident

#IR15   Total Submissions : 9

Software solution for preventing untoward incident based on analysis of past data, identifying possible vulnerable areas and action to improve security at those places can help in improving security.

Sample Data Required: Yes

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Telecom Connectivity

#IR14   Total Submissions : 5

Indian Railways have telecom connectivity through RailTel OFC network, BSNL etc., for reserved ticketing counters, Unreserved ticketing counters, freight operations information system terminals etc., across the country. The uptime of telecom channels is monitored through

Signaling

#IR13   Total Submissions : 10

Indian Railways have multiple types of signaling system.   Failures of signals severely affect the movement of traffic. Predictive analysis which can help identify the likely failure cases in near future can help in timely attention thereby preventing failures.

Sample Data Required: Yes

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Maintenance of Coaches & Wagons

#IR12   Total Submissions : 6

Coaches and Wagons are maintained as per schedule in nominated depots. The availability of complete profile of each coach and wagon at a centralized data base and its analysis can help in generating useful information about the causes of breakdowns, likely failures in future in specific coach or wagons and thereby enabling planning for maintenance.

Sample Data Required: Yes

Average Load Of Goods Trains (All Tracation) Broad Gauge and Metre Gauge upto 2013-14	https://data.gov.in/catalog/train-usage
Wagon Kilometres (In Terms Of 4-Wheelers) upto 2013-14	https://data.gov.in/catalog/operating-statistics-trains
Gross Tonne Kms. Including Weight Of Engine but excluding departmental (Goods and proportion of mixed) upto 2013-14	https://data.gov.in/catalog/operating-statistics-trains
Train Kilometres Operated All Gauge (including narrow) upto 2013-14	https://data.gov.in/catalog/operating-statistics-trains
Net Tonne Kilometres By Traction (Excluding Departmental) upto 2013-14	https://data.gov.in/catalog/operating-statistics-trains

2013-14

Speed Of Goods Trains – All goods trains including Through, Van and Shunting Trains – Broad Gauge upto 2013-14	https://data.gov.in/catalog/average-speed-goods-train

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Tracking of Individual Package Booked in Parcel & Luggage

#IR11   Total Submissions : 20

Parcel and luggage packages are booked for transport from one station to another. A receipt is issued to the consigner on depositing the package at parcel/luggage office. At some stations where computerization of parcel office has been implemented, Barcode tags are pasted on package. At present, the mechanism of tracking of individual package is not available. Customer wants the information about current location of the package on Indian Railways system.

Sample Data Required: Yes

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Waste Management

#IR10   Total Submissions : 31

Huge amount of waste is generated on Railway stations and on trains. Efficient waste management will help in keeping the station premises and trains clean and also enhance passenger comfort. Solid waste generated at workplaces, colonies, hospitals, etc is also required to be disposed properly. Software solution for efficient waste management can help in timely action.

Sample Data Required: No

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Energy Utilization

Total Submissions : 15

requirement can be identified.

Sample Data Required: Yes

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E-ticketing

#IR8   Total Submissions : 16

Issue of bypassing checks related to IP and multiple IDs creation are reported on e-ticketing website irctc.co.in. A solution to the issue by linking of IP address, Machine ID, User ID etc., needs to be developed to ensure implementation of checks regarding maximum number of tickets being booked by an individual.

Sample Data Required: No

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