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Railway Reservation System

The Railway reservation system facilitates the passengers to enquire about the trains available on the basis of source and destination. Booking and status of the tickets, enquire about the status of the booked ticket. The aim of the Mini Project is to design and develop a database Maintaining the records of different trains, train status, passenger details, and other details that provides additional amenity to the Users.

Our purpose of doing this Mini Project is for maintaining a database system for Railway Reservation System is to reduce the manual errors involved in booking and cancelling of tickets and make it convenient for the customers and providers to maintain the data. In addition to a typical database of Railway Reservation System our Mini project has *additional features* like:

1. **Connecting Trains Between Source and Destination:** In case the user needs, books a ticket to far Destination that does not contain a direct train from the Source station, the computerized database system provides the user to book connecting train from an intermediate station to destination, the connecting train will be provided in such a way that the duration and cost will be of on budget and economical as possible. This is a trade mark feature not available in the Indian Railway Reservation system.
2. **Priority in the Waiting List:** Our Database system provides a high priority in a waiting list in case a ticket is needed by Pregnant women/senior citizens, by providing a priority higher in the waiting list, so they can get a ticket, and also data about Pregnant Women will be also stored in the database system, to provide them cheaper rates and facilities for their comfort.
3. **Railway Ticket Over-drafting System:** This is a credit facility provided by our database system. A registered user can book ticket if needed without paying the money, the money to be payed gets stored in the database, a **smart card is used for this feature**, for a finite number of times the user can do this, and can pay back the money after certain period of time.

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4. **Offers on Food & Drinks:** Our database system stores the number of times the user books for food and drinks while travelling in the train, every time he does these points get added in the database of the user, using these points he can redeem offers and discounts while booking food during his next travel in the train.
5. **Return trip:** Our Database system also provides a return ticket facility for the user, making it easier for the user.
6. **Smart card facility for daily users:** for train users who travel daily within the distance of 100kms will issued a smart card that works on a monthly basis, smart card can be recharged and can be used as a debit card as well as a credit card (which has credit limit) just like ticket over-drafting as mentioned earlier.

The Entities and Attributes used in our mini project is as follows:

1. **Station:** Station_ID, pincode, name, no_of_platforms, MSL
2. **Train:** Source, Destination, Type, Train_no, Schedule, Stops
3. **Passenger:** Name and all basic details like credit and debit.
4. **Ticket:** PNR, Train no, date, Source, Destination, Quota, Berth, Coach

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