6) SRS - Railway Reservation system

To develop a user - friendly Railway Reservation system to enable passenger to book tickets online and make payment online as well.

Railway reservation system which provides the train timing details, reservation, billing and cancellation or various types of reservation namely -

1) Confirm Reservation for seat

2) Reservation against cancellation

3) Waiting list Reservation

4) Online Reservation

5) Tatkal Reservation

   This system enables the Advance booking in any class, against general and ladies quota, on payment of fare in full for adults and children, a maximum of six seats at a time, for journey b/w any 2 stations served by a train.

   It also provides details about

1) Timetable

2) Train fares

3) Current status of reservation position

4) Train available b/w a pair of station.

5) Accomadation available for a train (date combination type of ticket : general and tatkal

Railway

+ tax_no : integer
+ display()

PNR

+ PNR_no : Integer
+ display()

Confirm

+ PNR_no : integer
+ display()

Reservation

+ status : class
+ train_no : integer
+ trans : string
+ type : string
+ Display_type()
+ Check_availability()
+ return_amount()
+ reserve()

<<enumeration>>
Status

+ WaitList
+ delayed
+ Booked
+ outofservice

Administrator

- id : integer
- password : string
- name : string
- manage()
- view_records()
- update-database()

Passenger

+ id : integer
+ passenger : string
+ name : string
+ email : string
+ phone_no : integer
+ age : integer
+ search_train()
+ book_ticket()
+ cancel_ticket()
+ pay_amount()

Train

+ train_no : integer
+ name : string
+ no_of_coaches : Integer
+ arrival_time : Float
+ departure_time : Float
+ is_reached : Boolean
+ add_train()
+ display_train_info()
+ delete_train()
+ update_train_info()

Coach

+ type : string
+ material : string
+ no_of_compartment : integer
+ add_coach()
+ delete_coach()

Engine

+ distr : string
+ type : string
+ fuel : string
+ add()
+ display()

Ticket

+ tid : integer
+ PNR_no : integer
+ no_of_people : integer
+ status : status
+ creat_Ticket()
+ delete_Ticket()

Payment

+ amount : Float
+ type : string
+ is_authorized : Boolean

e-ticket

+ amount : float
+ date : Date
+ description : string

Ticket

+ date : Date
+ amount : Float
+ description : string