IRCTC

Build a system like IRCTC

* Search trains by station and date
* List of trains
* Show schedule and availability of seats for a particular train and date
* Book tickets

**I want to travel from Jalandhar to Katra on 20th November in 2nd AC**

**Intercity Express**

Delhi -> Panipat -> Chandigarh -> Jalandhar -> Pathankot -> Jammu -> Katra = 7 stations

Total = 400 seats (20 1AC, 80 1AC, 100 3AC, 200 SS)

**Design:**

Database Model / Schema:

**Train**

· id

· TraiName

· TrainNumber

**Station**

· Id

· Name

**Seat**

· Id

· <<SeatType>>

**ScheduleSeat**

· Id

· ScheduleId

· SeatId

· Status

· ttl

Coach

* **Id**

**Schedule**

· -Id

· -TrainId

· -index

· -stationId

· -arrivalTime

· -DepartureTime

Eg -

Panipat -> Chandigarh -> amtritsar

**2 1 panipat**

**2 2 chandigarh**

Delhi -> Panipat -> Chandigarh -> Jalandhar -> Pathankot -> Jammu -> Katra = 7 stations

**1 1 delhi**

**1 2 panipat**

**1 3 chandigarh**

Ticket

* userId
* Src
* Dest
* trainId
* DepartureTime
* Seat