

Coding Assignment

Your assignment is to implement a simple train search application.

Write an application that takes data from different providers given as three different text files with the following interface:

Need to make basic MVC architecture along with other logics if required:

Controller : interface fetching the parameters from URL

Model : Reading the file

View : Displaying the output.

```
Eg., localhost/train/search?origin=mum&destination=amd
```

Expected Output:

1. Display in the following format:

```
{
  Origin :,
  Destination :,
  time : {
    Departure Time : ,
    Destination Time :
  },
  Price:
}
```

Example:

```
{
  Origin : MUM,
  Destination : AMD,
  Time : {
    Departure Time : 6/30/2016 9:30:00,
    Destination Time : 6/30/2016 16:05:00
  },
  Price: 535.00,
  Currency : INR
}
```

1. Remove duplicate rows (yes, there are duplicate flights in the provider files).
2. Order by two fields: "Price" as primary and "Departure Time" as secondary, both in ascending order.

Please design your software as if you were building a larger system. Most attention will be paid to code readability, PBP, Clean Code, passing unit and integration tests and test code coverage. Feel free to ask questions if some points are not clear.

Provider1.txt

MUM-AMD-6/30/2016 9:30:00-6/30/2016 16:30:00-550-INR
AMD-MUM-7/30/2016 9:30:00-7/30/2016 16:30:00-550-INR
DEL-AMD-5/30/2016 9:30:00-5/30/2016 16:30:00-550-INR
MUM-DEL-4/30/2016 9:30:00-4/30/2016 16:30:00-550-INR
AMD-DEL-3/30/2016 9:30:00-3/30/2016 16:30:00-550-INR
DEL-MUM-2/3/2016 9:30:00-2/3/2016 16:30:00-550-INR
CHN-AMD-1/30/2016 9:30:00-1/30/2016 16:30:00-550-INR
AMD-CHN-7/31/2016 9:30:00-7/31/2016 16:30:00-550-INR
AMD-PUN-8/30/2016 9:30:00-8/30/2016 16:30:00-550-INR
PUN-AMD-9/30/2016 9:30:00-9/30/2016 16:30:00-550-INR

Provider2.txt

MUM-AMD-6/30/2016 11:42:00-6/30/2016 16:30:00-550-INR
AMD-MUM-7/30/2016 11:42:00-7/30/2016 16:30:00-550-INR
DEL-AMD-5/30/2016 11:42:00-5/30/2016 16:30:00-550-INR
MUM-DEL-4/30/2016 11:42:00-4/30/2016 16:30:00-550-INR
AMD-DEL-3/30/2016 11:42:00-3/30/2016 16:30:00-550-INR
DEL-MUM-2/3/2016 11:42:00-2/3/2016 16:30:00-550-INR
CHN-AMD-1/30/2016 11:42:00-1/30/2016 16:30:00-550-INR
AMD-CHN-7/31/2016 11:42:00-7/31/2016 16:30:00-550-INR
AMD-PUN-8/30/2016 11:42:00-8/30/2016 16:30:00-550-INR
PUN-AMD-9/30/2016 11:42:00-9/30/2016 16:30:00-550-INR

Provider3.txt

MUM,AMD,6/30/2016 9:30:00,6/30/2016 16:30:00,550,INR
AMD,MUM,7/30/2016 9:30:00,7/30/2016 16:30:00,550,INR
DEL,AMD,5/30/2016 11:42:00,5/30/2016 18:42:00,550,INR
MUM,DEL,4/30/2016 11:42:00,4/30/2016 17:25:00,550,INR
AMD,DEL,3/30/2016 11:42:00,3/30/2016 18:42:00,550,INR
DEL,MUM,2/3/2016 11:42:00,2/3/2016 16:30:00,550,INR
CHN,AMD,1/30/2016 11:42:00,1/30/2016 16:30:00,550,INR
AMD,CHN,7/31/2016 11:42:00,7/31/2016 16:30:00,550,INR
AMD,PUN,8/30/2016 11:42:00,8/30/2016 18:42:00,550,INR
PUN,AMD,9/30/2016 11:42:00,9/30/2016 18:42:00,550,INR