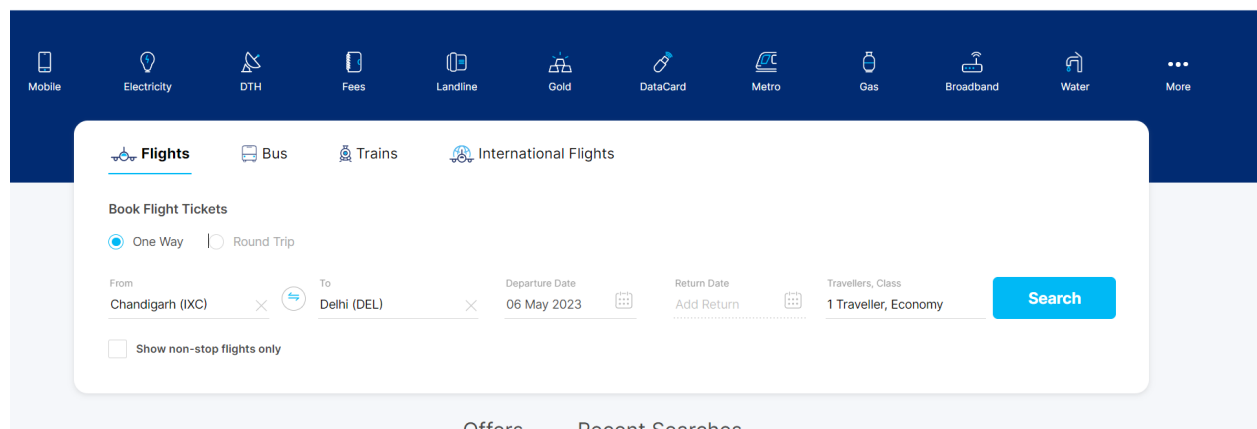


# Flight Comparator Documentation

This is a node js application. The program will call Paytm flight search API and fetch all details of flights. From there we will collect the below details.

- **flight name**
- **flight number**
- **Paytm flight price**

This code will allow users to enter the date. The source and destinations are hard coded. If you want to change source and destination please go to the paytm flight search page and you can find out three character name. In the below image you can see Chandigarh is mentioned as IXC and Delhi is mentioned as DEL.



If you want to change the source and destination, pick the three character name from Paytm flight booking web and hard code in const url in the code. PFB,

const url =

``https://travel.paytm.com/api/flights/v2/search?accept=combination&enable={%22handBaggageFare%22:true,%22paxWiseConvFee%22:true,%22minirules%22:true}&adults=1&children=0&class=E&client=web&departureDate=${startDate}&origin=IXC&infants=0&destination=DEL`;`

Instead of IXC and DEL, we can use any cities based on our preference.

The user can enter the start date, it will be passed to the highlighted portion of the url.

By using the **Node .flightprice.js**, we can run the program.

```
PS D:\FlightPriceProject> node .\flightprice.js
```

Then it will ask, start date, which should be YYYYMMDD format.

```
PS D:\FlightPriceProject> node .\flightprice.js
Enter start date (YYYYMMDD):20230505
```

Finally the program will create a csv file including all the above mentioned details. PFB,

	A	B	C	D	E	F	G	H	I	J
1	SI No	Flight Name	Flight Number	Paytm Price						
2	1	Alliance Air	832	3134						
3	2	Alliance Air	714	4132						
4	3	IndiGo	2193	4289						
5	4	Vistara	707	5302						
6	5	IndiGo	6052	5654						
7	6	IndiGo	2195	6179						
8	7	IndiGo	6828	6704						
9	8	Vistara	638	6720						
10	9	Alliance Air	806	7649						
11	10	Vistara	658	27206						
12	11	Vistara	658	27258						
13	12	Vistara	658	27311						
14	13	Vistara	658	27311						
15	14	Vistara	654	31899						
16	15	Vistara	654	31899						
17	16	Vistara	654	31952						
18	17	Vistara	654	32057						
19	18	Vistara	652	32424						
20	19	Vistara	652	32424						
21	20	Vistara	652	32424						
22	21	Vistara	652	32424						
23	22	Vistara	652	32424						
24	23	Vistara	652	32424						
25	24	Vistara	652	32424						
26	25	Vistara	654	33999						
27	26	Vistara	654	33999						

flights
+

For a better understanding, I have printed the flight details in the console. PFB,

```
PS D:\FlightPriceProject> node .\flightprice.js
Enter start date (YYYYMMDD):20230505
Flight 1: Alliance Air - Flight Number: 832 - Price: 3659
Flight 7: IndiGo - Flight Number: 2195 - Price: 6704
Flight 8: IndiGo - Flight Number: 6828 - Price: 7229
Flight 9: Alliance Air - Flight Number: 806 - Price: 7649
Flight 10: Vistara - Flight Number: 658 - Price: 27206
Flight 11: Vistara - Flight Number: 658 - Price: 27258
Flight 12: Vistara - Flight Number: 658 - Price: 27311
Flight 13: Vistara - Flight Number: 658 - Price: 27311
Flight 14: Vistara - Flight Number: 654 - Price: 31952
Flight 15: Vistara - Flight Number: 654 - Price: 32057
Flight 16: Vistara - Flight Number: 652 - Price: 32424
Flight 17: Vistara - Flight Number: 652 - Price: 32424
Flight 18: Vistara - Flight Number: 652 - Price: 32424
Flight 19: Vistara - Flight Number: 658 - Price: 32587
Flight 20: Vistara - Flight Number: 652 - Price: 33422
Flight 21: Vistara - Flight Number: 652 - Price: 33422
Flight 22: Vistara - Flight Number: 652 - Price: 33422
Flight 23: Vistara - Flight Number: 652 - Price: 33422
Flight 24: Vistara - Flight Number: 654 - Price: 33999
Flight 25: Vistara - Flight Number: 654 - Price: 33999
Flight 26: Vistara - Flight Number: 654 - Price: 33999
Flight 27: Vistara - Flight Number: 654 - Price: 34052
Flight 28: Vistara - Flight Number: 654 - Price: 34052
Flight 29: Vistara - Flight Number: 652 - Price: 34524
Flight 30: Vistara - Flight Number: 654 - Price: 37307
Flight 31: Vistara - Flight Number: 652 - Price: 37674
Flight 32: Vistara - Flight Number: 652 - Price: 37674
Flight 33: Vistara - Flight Number: 652 - Price: 37674
Flight 34: Vistara - Flight Number: 652 - Price: 37674
Flight 35: Vistara - Flight Number: 652 - Price: 37674
Flight 36: Vistara - Flight Number: 652 - Price: 37674
```

Please find the below code snippet

```

1
2 const readline = require("readline-sync");
3 var flightNameArr = []
4 const flightNumberArr = []
5 const flightpriceArr = []
6 const fs = require('fs');
7
8
9
10 async function fetchFlightDetailsPaytm() {
11     // const startDate = '2023-05-03';
12     // const endDate = '2024-04-28';
13     const startDate = readline.question('Enter start date (YYYYMMDD):');
14     // const endDate = readline.question('Enter end date (YYYY-MM-DD):');
15
16     // const url='https://travel.paytm.com/api/a/flights/v1/get_fares?adults=1&children=0&infants=0&class=E&client=web&destination=DEL&end_date=${st
17     // const url='https://travel.paytm.com/api/flights/v2/search?accept=combination&enable={%22handBaggageFare%22:true,%22paxWiseConvFee%22:true,%22
18     const url = `https://travel.paytm.com/api/flights/v2/search?accept=combination&enable={%22handBaggageFare%22:true,%22paxWiseConvFee%22:true,%22m
19     try {
20         const response = await fetch(url, { method: 'GET' });
21         const data = await response.json();
22
23
24         // console.log(data.body.fares[startDate].airline);
25
26         // console.log(data.body.onwardflights.flights[0].airline);
27         // console.log(data.body.onwardflights.flights[0].hops[0].flightNumber);
28         // console.log(data.body.onwardflights.flights[0].price[0].price);
29
30         // for (const date in data.body.fares) {
31             // console.log(`${date}: ${data.body.fares[date].airline} - ${data.body.fares[date].fare}`);
32         // }
33
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```

```

33
34 const flights = data.body.onwardflights.flights;
35 for (let i = 0; i < flights.length; i++) {
36     const flight = flights[i];
37     const airlineName = flight.airline;
38     flightNameArr.push(airlineName)
39     const flightNumber = flight.hops[0].flightNumber;
40     flightNumberArr.push(flightNumber)
41     const price = flight.price[0].price;
42     flightpriceArr.push(price)
43
44
45     console.log(`Flight ${i+1}: ${airlineName} - Flight Number: ${flightNumber} - Price: ${price}`);
46 }
47
48 const csv = "Sl No,Flight Name,Flight Number,Paytm Price\n" + flightNameArr.map((name, index) => [index+1,name, flightNumberArr[index], flig
49
50
51 fs.writeFileSync('flights.csv', csv);
52
53
54
55
56
57 } catch (error) {
58     console.log(error)
59 }
60 }
61
62

```