


Output 1. Home page

BestFlight

Flights

Login



Book Domestic & International Flight Tickets

Flying from

📍

Type Departure City

Flying to

📍

Type Destination City

Departure

📅

mm/dd/yyyy

Search

Our Products

Flight Search

My Bookings

Company

About Us

FAQs

Contact Us

Travel Resources

Holidays Packages

Weekend Getaways

Airline Links

United Airlines

American Airlines

Southwest Airlines

Toll Free No : 1234-5678-901

Email : mail@example.com

Email

Subscribe

Output 2. Flight ticket stored in MySQL

[illegible]

[illegible]

F91249

Frontier Airlines, Inc.

20:55 - 23:50

Rating : 4.1/5

ORD - SFO

\$288.1

Select

Stops

☒ Nonestop

☐ 1 Stop

☐ 2+ Stops

Airlines Included

☐ United

☐ American Airlines

☐ Delta

☐ Spirit Airlines

☒ Frontier Airlines

☐ Virgin America

Departure Time

☐ Early Morning

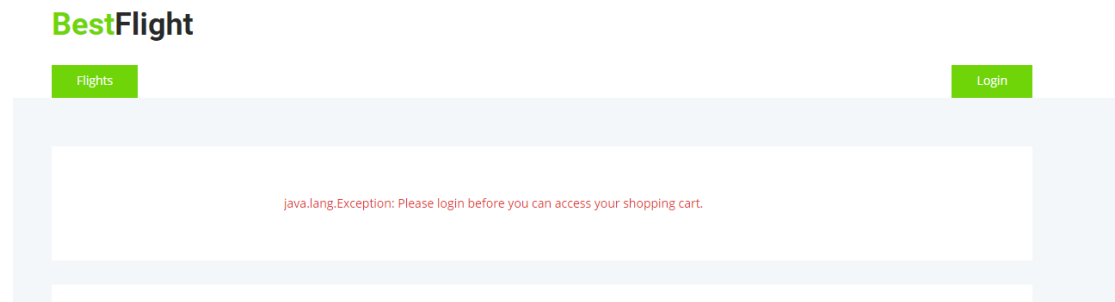
☐ Morning

☐ Afternoon

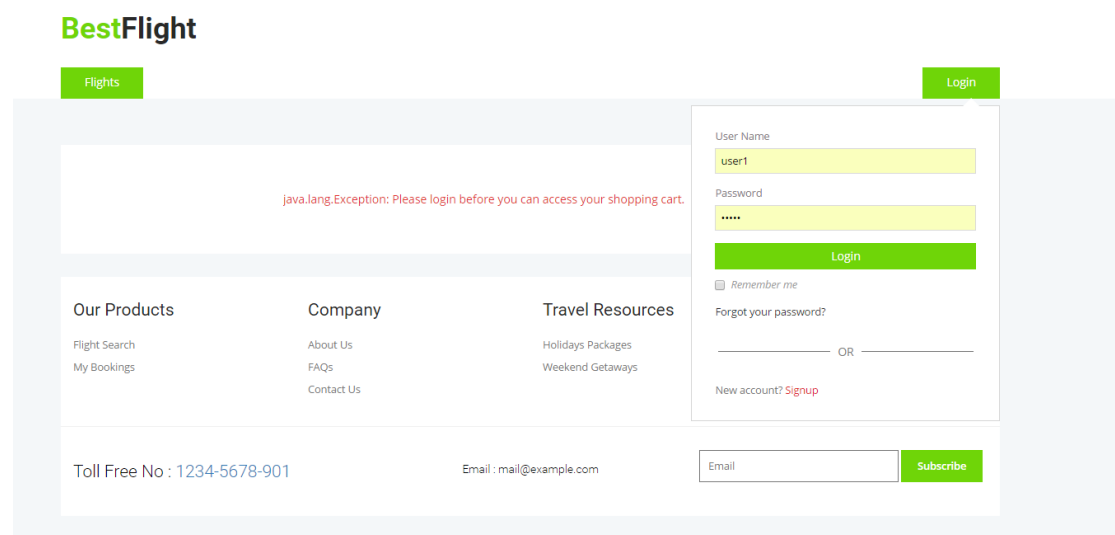
☐ Evening

Rating

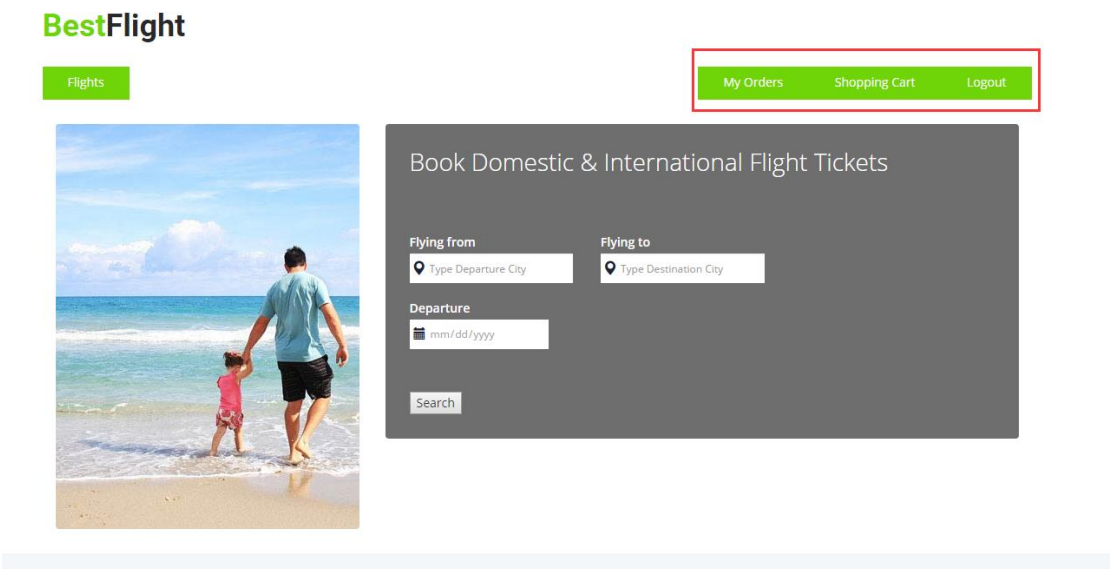
Output 5. Visitors cannot add ticket into cart.



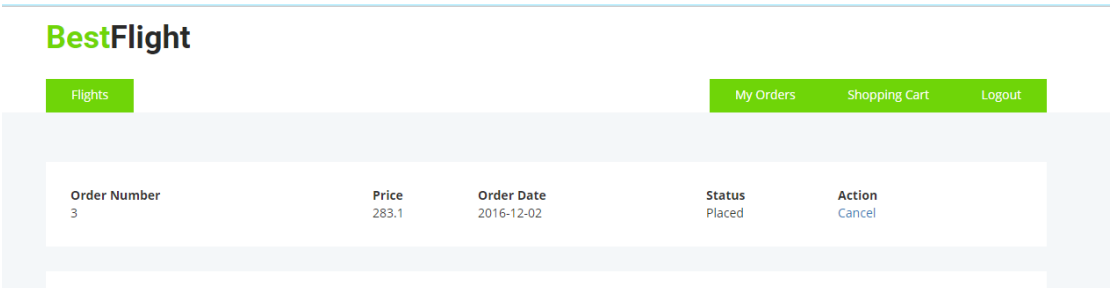
Output 6. Login button. Username = user1, password = user1



Output 7. After login, shows order history and shopping cart button



Output 8. User can view and cancel his/her own order, however, the order can only be cancelled in one day.



Output 9. User can add/delete tickets in shopping cart before check out

BestFlight

Flights

My Orders

Shopping Cart

Logout

Airline Company	Flight	Date	Price	Action
United Airlines, Inc.	ORD - SFO	2016-12-05	283.10	Delete
Frontier Airlines, Inc.	LAX - ORD	2016-12-05	63.10	Delete
Total Price:			346.20	
Checkout				

Output 10. If user doesn't login, he/she cannot visit shopping cart, check out, my orders using url like list below.

localhost/CSPProjectCheckout.jsp

Google 翻译 摄影 社交 学术 代码 其他 MyIT Blackboard google drive jobs LeetCode OJ Courses git - the simple guide 机票 LoadPlanner pets

BestFlight

Flights

Login

java.lang.Exception: Please login first before you can checkout.

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United Airlines

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Southwest Airlines

Toll Free No : 1234-5678-901

Email : mail@example.com

Email

Subscribe

Output 11. Check out page:

BestFlight

Flights My Orders Shopping Cart Logout

Check Out

Address Card Number

abcde 124354356

Checkout

Our Products Company Travel Resources Airline Links

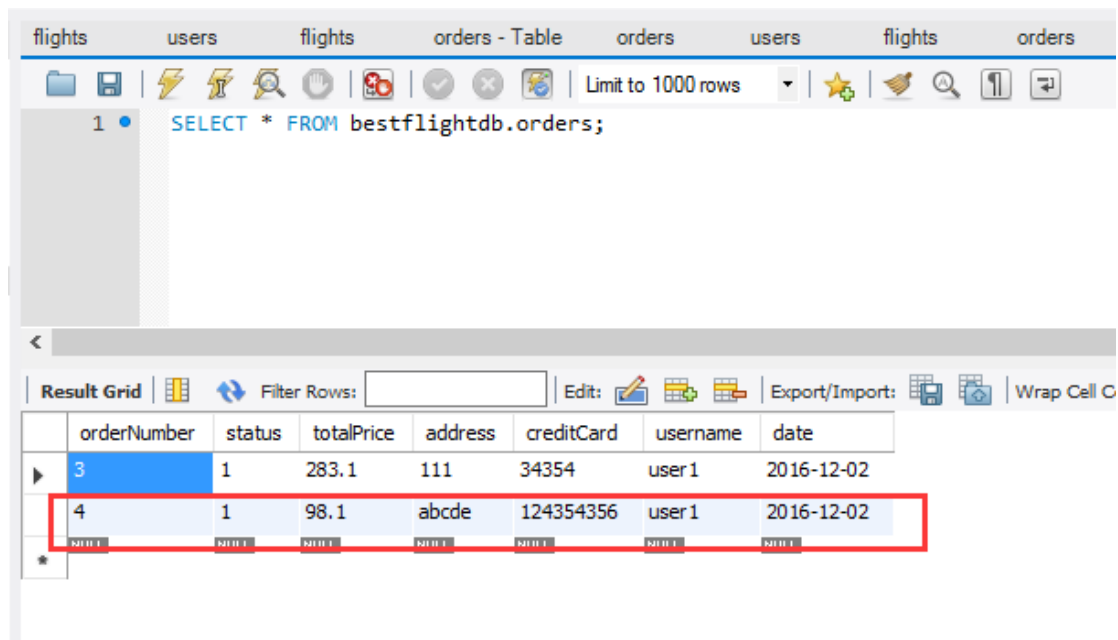
Output 12. Tracking number and status are shown after check out.

BestFlight

Flights My Orders Shopping Cart Logout

Your order has been placed!
Ticket status tracking number: 4
Thanks for your shopping!

Output 13. User orders are stored in MySQL “orders” table.

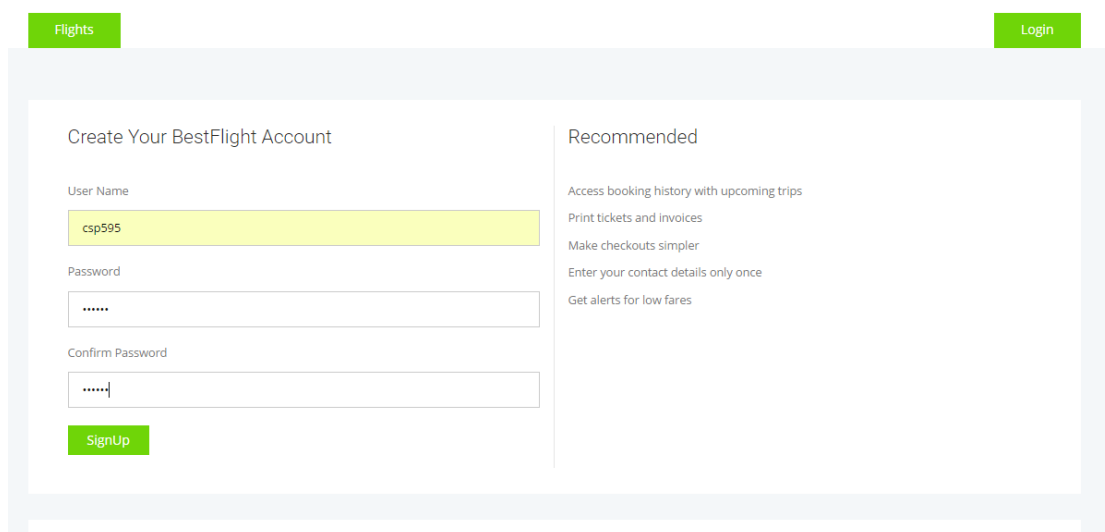


The screenshot shows a MySQL database interface with a query window and a result grid. The query window contains the SQL statement: `SELECT * FROM bestflightdb.orders;`. The result grid displays the following data:

orderNumber	status	totalPrice	address	creditCard	username	date
3	1	283.1	111	34354	user 1	2016-12-02
4	1	98.1	abcde	124354356	user 1	2016-12-02

Output 14. Signup page. If user name is used before or passwords are not the same, the page would give an exception hit and asked user to try again.

BestFlight



The screenshot shows the BestFlight Signup page. It features a "Create Your BestFlight Account" section with the following fields:

- User Name:
- Password:
- Confirm Password:

A green "SignUp" button is located below the password fields. To the right, there is a "Recommended" section with the following text:

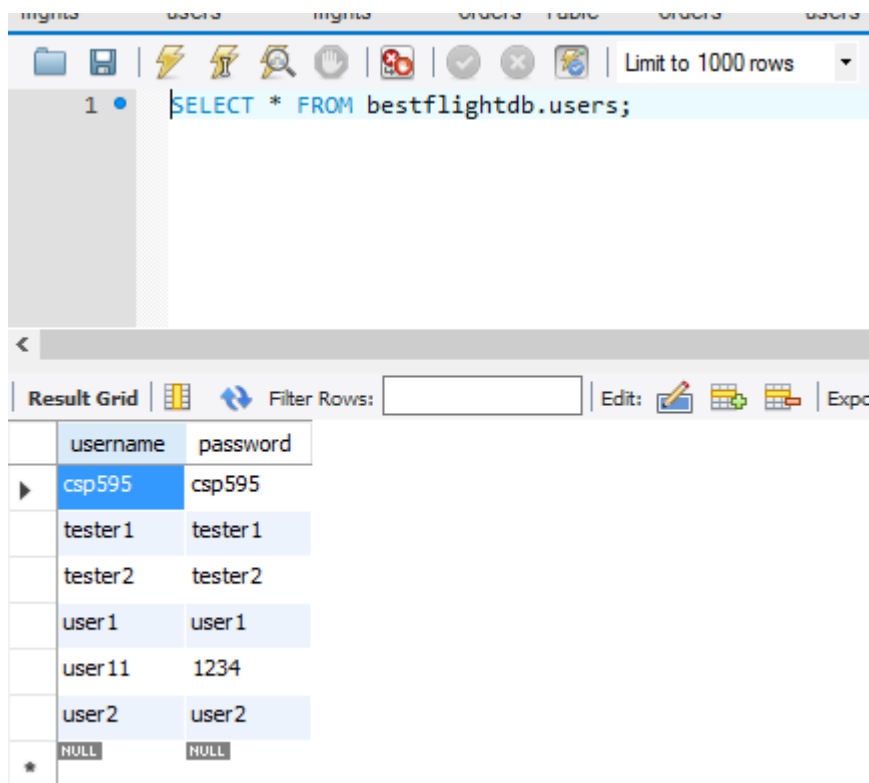
- Access booking history with upcoming trips
- Print tickets and invoices
- Make checkouts simpler
- Enter your contact details only once
- Get alerts for low fares

At the top of the page, there are two green buttons: "Flights" and "Login".

Your username user1 is not available. Please choose another username.

Sign up failure! Please enter your password again!

Output 15. User csp595 has been saved in MySQL “users” table



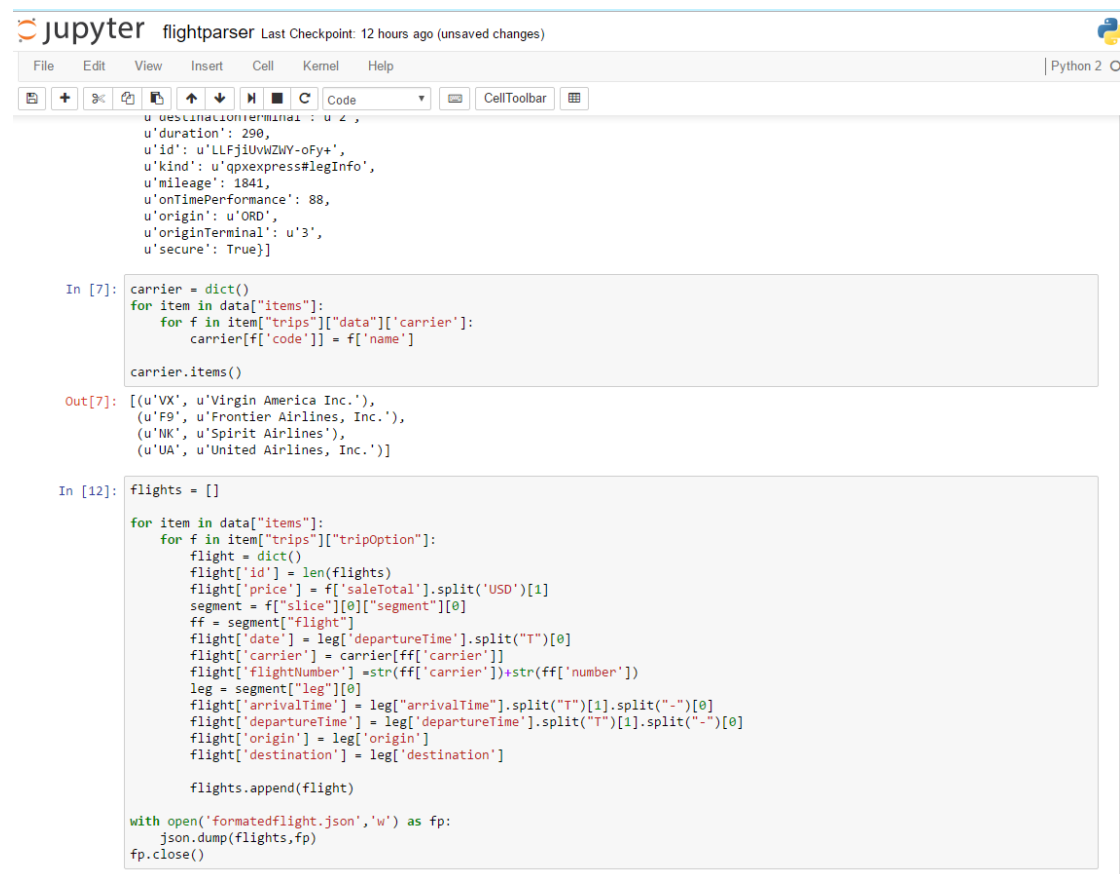
1 • `SELECT * FROM bestflightdb.users;`

Limit to 1000 rows

Result Grid

	username	password
▶	csp595	csp595
	tester1	tester1
	tester2	tester2
	user1	user1
	user11	1234
	user2	user2
★	NULL	NULL

Output 16. Tickets information are got from Google Flight API, using python to modify flights information and store modified flights in the file “formattedflight.json”. If MySQL ‘flights’ table is empty when user is visiting homepage, this project will read this json file and store flights into MySQL.



The image shows a Jupyter Notebook interface with the title 'flightparser'. The top bar indicates 'Last Checkpoint: 12 hours ago (unsaved changes)' and 'Python 2'. The notebook contains three code cells. The first cell shows a dictionary representing flight data. The second cell, labeled 'In [7]:', processes this data into a carrier dictionary. The output of this cell, labeled 'Out[7]:', shows a list of carrier names. The third cell, labeled 'In [12]:', processes the flight data into a list of flight objects and saves them to a file named 'formattedflight.json'.

```
u'destinationTerminal': u'2',
u'duration': 290,
u'id': u'LLFjiUVWZNY-oFy+',
u'kind': u'qpxexpress#legInfo',
u'mileage': 1841,
u'onTimePerformance': 88,
u'origin': u'ORD',
u'originTerminal': u'3',
u'secure': True}}

In [7]: carrier = dict()
for item in data["items"]:
    for f in item["trips"]["data"]['carrier']:
        carrier[f['code']] = f['name']

carrier.items()

Out[7]: [(u'VX', u'Virgin America Inc.'),
(u'F9', u'Frontier Airlines, Inc.'),
(u'NK', u'Spirit Airlines'),
(u'UA', u'United Airlines, Inc.')]

In [12]: flights = []

for item in data["items"]:
    for f in item["trips"]["tripOption"]:
        flight = dict()
        flight['id'] = len(flights)
        flight['price'] = f['saleTotal'].split('USD')[1]
        segment = f["slice"][0]["segment"][0]
        ff = segment["flight"]
        flight['date'] = leg["departureTime"].split("T")[0]
        flight['carrier'] = carrier[ff['carrier']]
        flight['flightNumber'] = str(ff['carrier'])+str(ff['number'])
        leg = segment["leg"][0]
        flight['arrivalTime'] = leg["arrivalTime"].split("T")[1].split("-")[0]
        flight['departureTime'] = leg["departureTime"].split("T")[1].split("-")[0]
        flight['origin'] = leg['origin']
        flight['destination'] = leg['destination']

        flights.append(flight)

with open('formattedflight.json', 'w') as fp:
    json.dump(flights, fp)
fp.close()
```