

The task is to test the GUI of the **Flight Tickets Booking application**

Use the CRUD flight scenario to do the following:

Flights List

[Add Flight](#)

Flight								Available			
ID	Number	From	To	Departure	Arrival	Gate	Status	Flight Charge	Aircraft	Seats	
1	ZY-8171	string	Gladys Eeya	2022-09-25 Sun Sep 25 00:22:33 UTC 2022	2022-09-26 Sun Sep 25 01:26:09 UTC 2022			746.8465246989646	Il-2	-5/1	Cancel

- Investigate the DOM tree on the Elements tab, and compare it with the View HTML source. What could be done here, that is impossible to do with the View page source?

With View HTML we can see only HTML . it's not very convenient to see DOM tree with View HTML . We can see nested objects with appropriate HTML tags.

```
e wrap ☐
1 <!DOCTYPE html>
2 <html xmlns:layout="http://www.ultraq.net.nz/thymeleaf/layout"
3   <head>
4     <meta charset="UTF-8">
5     <title>Search for flight</title>
6     <div>
7       <link crossorigin="anonymous" href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
8         integrity="sha384-iYQeCzEYFbkjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6+fzT"
9         rel="stylesheet">
10    </div>
11    <style type="text/css"></style>
12  </head>
13  <body>
14    <div>
15      <nav class="navbar navbar-expand-lg navbar-dark bg-primary" style="margin-bottom: 20px">
16        <a class="navbar-brand" href="#">
17          
18          FTB
19        </a>
20
21        <button aria-controls="navbarColor02" aria-expanded="false" aria-label="Toggle navigation" class="navbar-toggler"
22          data-target="#navbarColor02" data-toggle="collapse" type="button">
23          <span class="navbar-toggler-icon"></span>
24        </button>
25
26        <div class="collapse navbar-collapse" id="navbarColor02">
27          <ul class="navbar-nav mr-auto">
28            <li class="nav-item active">
29              <a id = "aHome" class="nav-link" href="/">Home</a>
30            </li>
31
32            <li class="nav-item">
33              <a id = "aFlightsList" class="nav-link" href="/flights_list">Flights</a>
34            </li>
35
36            <li class="nav-item">
37              <a id = "aSearch" class="nav-link" href="/flight/search">Search Flight</a>
38            </li>
39
40            <li class="nav-item">
41              <a id = "aVerify" class="nav-link" href="/flight/book/verify">Verify Booking</a>
42            </li>
43          </ul>
44        </div>
45      </nav>
46    </div>
47  </body>
48 </html>
```

And with Devtools in Elements tab we can see all information about HTML code and DOM tree. There is a pointer for quick navigation in the tree (select the pointer and use it to left-click an element - the element will be selected in the tree). It is possible to edit the DOM - change an element's attributes, add or delete an element, etc. Also, there is a Styles sub-panel so it is possible to view all the CSSs applied. There is also a way to turn on/off and edit individual style settings. One more useful thing to mention here - is the screen resolution changer.

The "View Page Source" option shows the original HTML source as it was received from the server. However, it doesn't reflect any modifications made to the DOM after the initial page load.

In the "Elements" tab, you can see the current state of the DOM, including any dynamic changes made by JavaScript or user interactions. This is crucial for debugging and understanding how the page evolves during runtime.

In the "Elements" tab, you can edit the HTML, CSS, and even JavaScript live. Any changes you make are immediately reflected on the page, allowing you to experiment with modifications without affecting the actual source code on the server.

This live editing capability is not possible with the "View Page Source" option.

In summary, while "View Page Source" is useful for seeing the initial HTML received from the server, the "Elements" tab in DevTools provides a more dynamic and interactive way to inspect and modify the current state of the DOM during runtime. This is particularly valuable for debugging, experimenting with changes, and understanding the behavior of dynamic web applications.

The screenshot displays a web application with a flight table and the Chrome DevTools interface. The flight table has columns for ID, Flight Number, From, To, Class, Departure, Arrival, and Flight Charge. A tooltip is visible over a cell in the table. The DevTools 'Elements' panel shows the DOM tree, and the 'Styles' panel shows the CSS rules applied to the selected element.

ID	Flight Number	From	To	Class	Departure	Arrival	Flight Charge
5748	asdf	Nick	Overtime	ZBAR			-500.0
1	ZY-8171	string \ LED	Gladys Eeya / FAPG		2022-09-25 Sun 00:22:33 UTC	2022-09-26 Sun Sep 01:26:09 UTC	746.846524698
8	WY-6811	Chicago Airport \ CHI	Chicago Airport / CHI		2022-09-25 Sat Sep 18:38:19 UTC	2022-09-27 Sun Sep 15:38:01 UTC	54.7144234686
10	LD-6875	Gladys Eeya \ FAPG	Sally Mander / VEAN		2022-09-25 Sun Sep 00:22:33 UTC	2022-09-27 Sun Sep 01:26:09 UTC	412.791107043

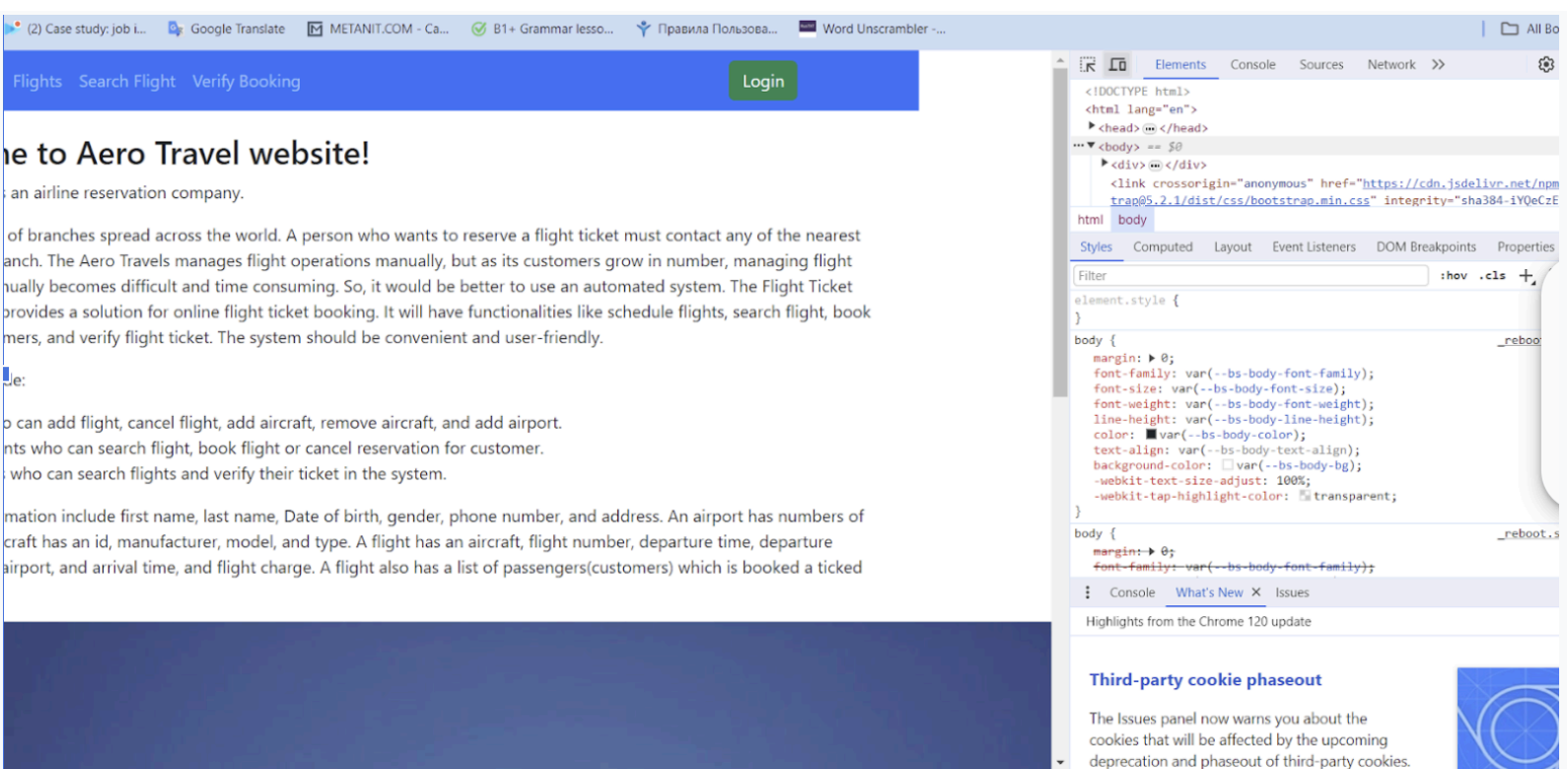
DevTools Elements Panel (selected element):

```
<div class="container">
  <div class="row" style="margin-bottom: 10px">
    <div>
    </div>
    <div>
    </div>
    <div>
    </div>
    <div>
    </div>
  </div>
  <table id="tblflights" class="table table-sm">
    <thead>
      <tr>
        <th></th>
      </tr>
    </thead>
    <tbody>
      <tr style="background-color: #fddfd" class="table-active">
        <th scope="row">1</th>
        <td>ZY-8171</td>
        <td>string \ LED</td>
        <td>Gladys Eeya / FAPG</td>
        <td>2022-09-25 Sun Sep 00:22:33 UTC 2022</td>
        <td>2022-09-26 Sun Sep 01:26:09 UTC 2022</td>
        <td>746.846524698</td>
      </tr>
      <tr style="background-color: #fddfd" class="table-active">
        <th scope="row">8</th>
        <td>WY-6811</td>
        <td>Chicago Airport \ CHI</td>
        <td>Chicago Airport / CHI</td>
        <td>2022-09-25 Sat Sep 18:38:19 UTC 2022</td>
        <td>2022-09-27 Sun Sep 15:38:01 UTC 2022</td>
        <td>54.7144234686</td>
      </tr>
      <tr style="background-color: #fddfd" class="table-active">
        <th scope="row">10</th>
        <td>LD-6875</td>
        <td>Gladys Eeya \ FAPG</td>
        <td>Sally Mander / VEAN</td>
        <td>2022-09-25 Sun Sep 00:22:33 UTC 2022</td>
        <td>2022-09-27 Sun Sep 01:26:09 UTC 2022</td>
        <td>412.791107043</td>
      </tr>
    </tbody>
  </table>
```

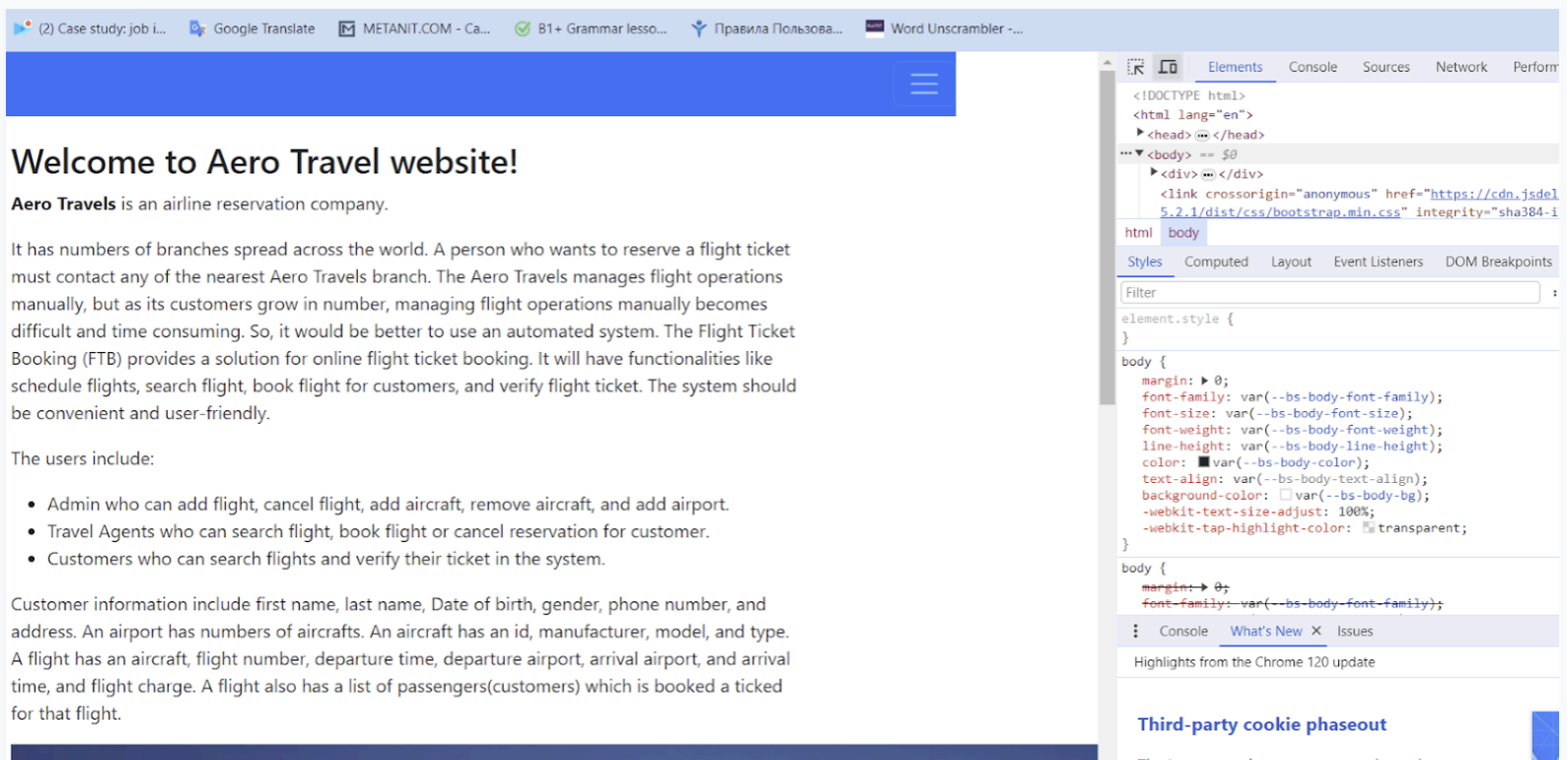
Styles Panel (selected element):

```
element.style {
}
@media (min-width: 576px) {
  .container, .container-
  sm {
    max-width: 540px;
  }
  .container, .container-
  fluid, .container-1g, .container-md,
  .container-sm, .container-xl, .container-xxl {
    --bs-gutter-x: 1.5rem;
    --bs-gutter-y: 0;
    width: 100%;
    padding-right: calc(var(--bs-gutter-x)
    .5);
    padding-left: calc(var(--bs-gutter-x)
    .5);
    margin-right: auto;
    margin-left: auto;
  }
  *, ::after, ::before {
    box-sizing: border-box;
  }
  div {
    display: block;
  }
  Inherited from body
  body {
    margin: 0;
    font-family: var(--bs-body-font-family);
    font-size: var(--bs-body-font-size);
    font-weight: var(--bs-body-font-weight);
    line-height: var(--bs-body-line-height);
    color: var(--bs-body-color);
    text-align: var(--bs-body-text-align);
    background-color: var(--bs-body-bg);
    -webkit-text-size-adjust: 100%;
    -webkit-tap-highlight-color: transparent;
  }
```

We can see one defect on the homepage with the login button. If the panel for Devtools is not large, than we can see login button



if we make the panel for Devtools larger, then we don't see the login button, and other buttons that were on the blue panel. They have disappeared.



All the information on the page becomes smaller, except for the image with the big plane, it does not change and remains large in size, as it was at the beginning


If we change the size of the screen with the Toggle device toolbar, we can see the same picture: the size of the big plane does not change.

Dimensions: iPad Air820x 118050%No throttling

to reserve a flight ticket
hages flight operations
is manually becomes
system. The Flight Ticket
ive functionalities like
ticket. The system should

and add airport.
for customer.

phone number, and
cturer, model, and type.
rival airport, and arrival
hich is booked a ticked



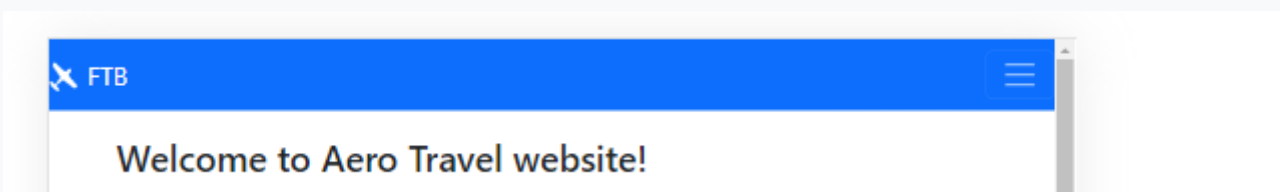
<!DOCTYPE html>
...<html lang="en"> == \$0
 <head>
 <body>
 <div>
 <link crossorigin="anonymous" href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css" integrity="sha384-iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6+fzT" rel="stylesheet">
 <style type="text/css"></style>
 <div>
 <nav class="navbar navbar-expand-lg navbar-dark bg-primary" style="margin-bottom: 20px">

 <button aria-controls="navbarColor02" aria-expanded="false" aria-label="Toggle navigation" class="navbar-toggler" data-target="#navbarColor02" data-toggle="collapse" type="button">

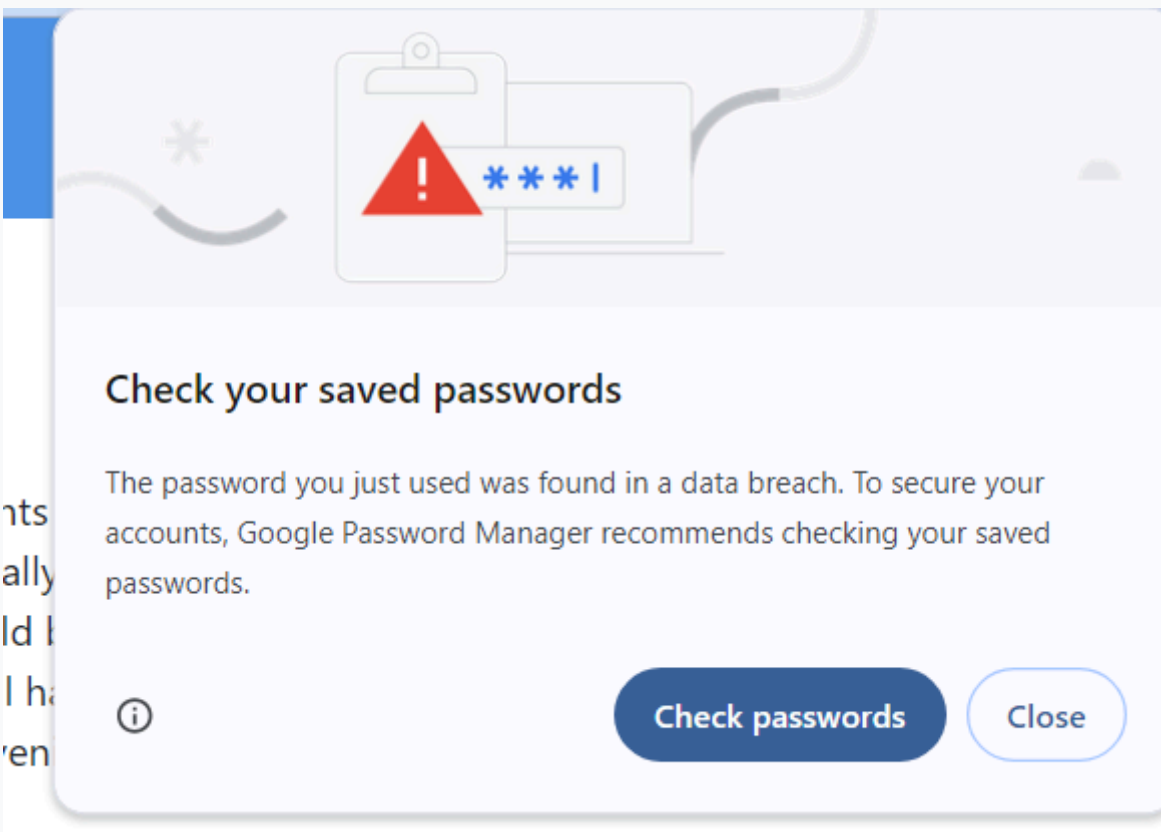
 </button>
 <div class="collapse navbar-collapse" id="navbarColor02">
 </nav>
 <div class="container"> </div>
 </div>
 </body>
</html>

html
ConsoleWhat's NewIssues
Highlights from the Chrome 120 update
Third-party cookie phaseout
The Issues panel now warns you about the cookies that will be affected by the upcoming deprecation and phaseout of third-party cookies.

We do not see the buttons on the blue panel again. And they do not open if we press button in the left corner



When we try to log in we always see



If we try to print empty values for time, we can see a message about mistake

Schedule a Flight

Aircraft

16 (821) (52)

Departure Airport

New Heathrow ()

Destination Airport

New Heathrow ()

Departure Date

12/24/2023

Departure Time

--:-- --

Arrival Date

12/25/2023

Arrival Time

--:-- --

Flight Number

23

Gate

25

S' tatus

BAGS DELIVERED

Flight Charge

0.0

Save

[Field error in object 'flight' on field 'arrivalTime': rejected value []; codes [NotBlank.flight.arrivalTime,NotBlank.arrivalTime,NotBlank.java.lang.String,NotBlank]; arguments [org.springframework.context.support.DefaultMessageSourceResolvable: codes [flight.arrivalTime,arrivalTime]; arguments []; default message [arrivalTime]]; default message [must not be blank], Field error in object 'flight' on field 'departureTime': rejected value []; codes [NotBlank.flight.departureTime,NotBlank.departureTime,NotBlank.java.lang.String,NotBlank]; arguments [org.springframework.context.support.DefaultMessageSourceResolvable: codes [flight.departureTime,departureTime]; arguments []; default message

If we take the same airport for departure and destination the app does not give us any message about mistake and does not add new flight also.

It does not sort by flightid in app.

Flights List

Flight			
ID	Number	From	To
5715	4K7481	Nick O'Teen	ghj
5737	FC536	Brooke Trout	Ouesso
5711	4A4872	Rocky Rhoades	Yule B. Sari
5718	JL8244	o5678	Charles
5600	dubai-dallas110	string	Nick Overtime

The pagination at the bottom of the page is too long, it doesn't fit on one page

		Airport	Airport	10.09.19 UTC 2022	10.09.01 UTC 2022					
10	LD-6875	Gladys Eeya	Sally Mander	2022-09-25 Sun Sep 25 08:55:01 UTC 2022	2022-09-27 Sun Sep 25 07:54:11 UTC 2022	412.7911070439199	B-787	336/350	...	Cancel
9	IB-3042	Chicago Airport	Hy Ball	2022-10-09 Sun Sep 25 07:18:57 UTC 2022	2022-10-10 Sun Sep 25 01:06:28 UTC 2022	255.41547111318354	Su-35	259/263	...	Cancel

We can not cancel flights with passengers, because it has dependency. But we can not see not user friendly message in the bottom about it.

Something went wrong upon deleting flight 5600 could not execute statement; SQL [n/a]; constraint [null]; nested exception is org.hibernate.exception.ConstraintViolationException: could not execute statement could not execute statement; SQL [n/a]; constraint [null]; nested exception is org.hibernate.exception.ConstraintViolationException: could not execute statement org.springframework.dao.DataIntegrityViolationException: could not execute statement; SQL [n/a]; constraint [null]; nested exception is org.hibernate.exception.ConstraintViolationException: could not execute statement

If we take a flight without any passengers, we can delete it. But we do not see any messages about deleting successfully.

We do not have any update button in the app for flights, so we can not test updates for flights.

We can also search a flight with search flight page. If all is in right way , we can see this:

FTB

Home

Flights

Search Flight

Verify Booking

Login

Search a Flight

From

To

Departure Time

Nick Ovtme

Nick Ovtme

mm/dd/yyyy

Search

Result

Flight								Available
ID	Number	From	To	Departure time	Arrival time	Flight Charge	Aircraft	Seats
10	LD-6875	Gladys Eeya	Sally Mander	2022-09-25 Sun Sep 25 08:55:01 UTC 2022	2022-09-27 Sun Sep 25 07:54:11 UTC 2022	412.7911070439199	B-787	336/350

<!DOCTYPE html>
<html xmlns:layout="http://www.ultraq.net.nz/thymeleaf/layout"
<head>
></head>
<body>
></div>
<div class="container"> == \$@
html body div.container
Styles Computed Layout Event Listeners DOM Breakpoints >>
Filter :hov .cls + - []
element.style {
}
@media (min-width: 992px)
.container, .container-lg, .container-md, _containers.scss:2
.container-sm {
max-width: 960px;
}
@media (min-width: 768px)
.container, .container-md, .container-sm { _containers.scss:2
max-width: 720px;
}
@media (min-width: 576px)
.container, .container-sm { _containers.scss:2
max-width: 540px;
}
.container, .container-fluid, .container-lg, _container.scss:
: Console What's New Issues
No issues top | Filter Default levels |
No Issues
27 mess...
No user ...
No errors
No warn
Navigated to http://192.168.40.100:8108/flight/search
Navigated to http://192.168.40.100:8108/flight/search

- **What errors do you see in the Console tab when running the scenarios? What are they about?**

In Console we can see `server_ip/favicon.ico` does not found

FTB

HomeAirportsAircraftsFlightsSearch FlightVerify Booking

johnLogout

Flights List

Add Flight

Flight								Available		
ID	Number	From	To	Departure	Arrival	Gate	Status	Flight Charge	Aircraft	Seats
1	ZY-8171	string	Gladys Eeya	2022-09-25 Sun Sep 25 00:22:33 UTC 2022	2022-09-26 Sun Sep 25 01:26:09 UTC 2022			746.8465246989646	Il-2	-5/1
8	WY-6811	Chicago Airport	Chicago Airport	2022-09-25 Sat Sep 24 18:38:19 UTC 2022	2022-09-27 Sun Sep 25 15:38:01 UTC 2022			54.71442346861982	Tu-204	562/575
10	LD-6875	Gladys Eeya	Sally Mander	2022-09-25 Sun Sep 25 08:55:01 UTC 2022	2022-09-27 Sun Sep 25 07:54:11 UTC 2022			412.7911070439199	B-787	336/350

5 messages

No user me...

1 error

favic... 1

No warnings

3 info

1 verbose

GET http://192.168.40.100:8188/favicon.ico:1 404 (Not Found)