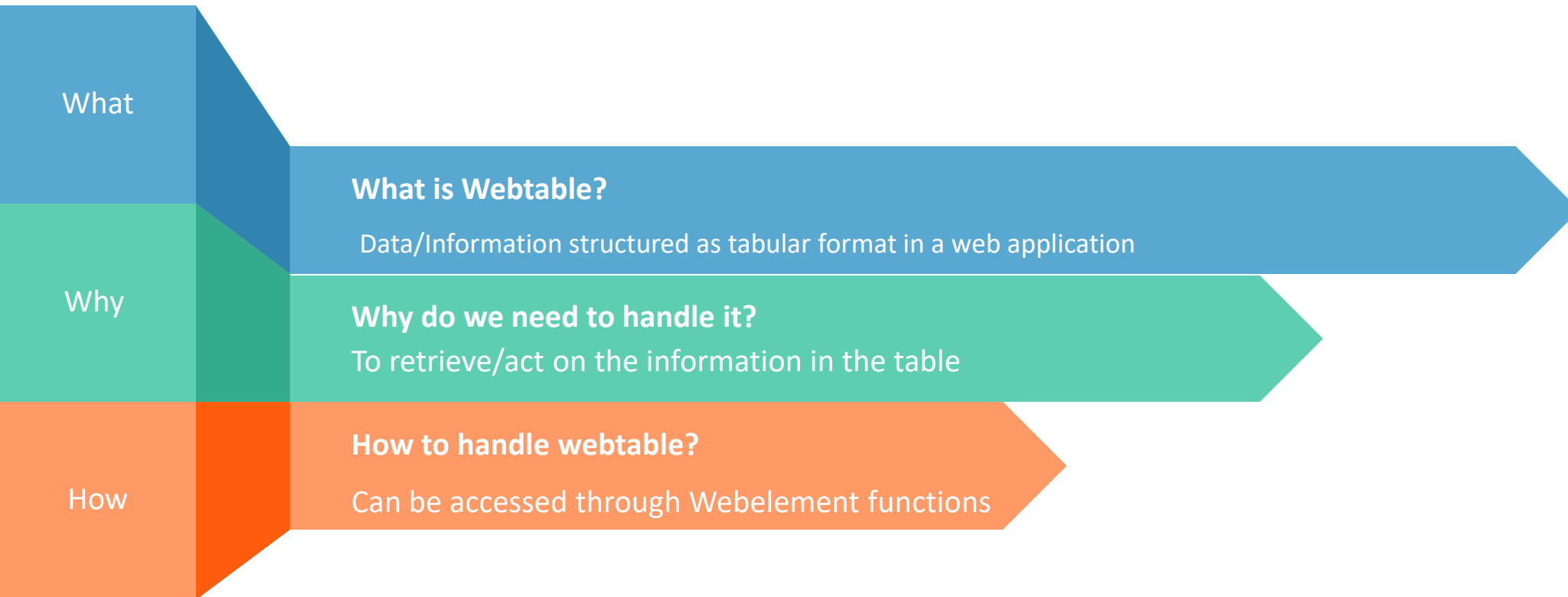


Selenium WebDriver Training

WebTable

The Golden Circle



Know about WebTable elements

<table> - table name and information

<thead> - table header

<tr> </tr> - represents the row data of the
table

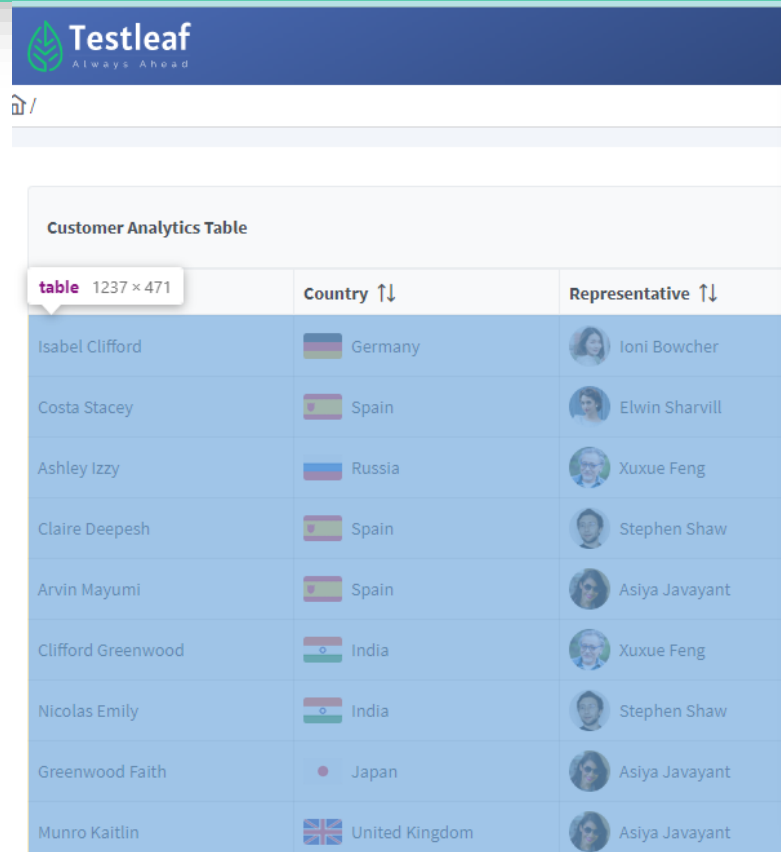
<th></th> - represents the table header data

<tbody> - table body

<tr> </tr> - represents the row data of the table

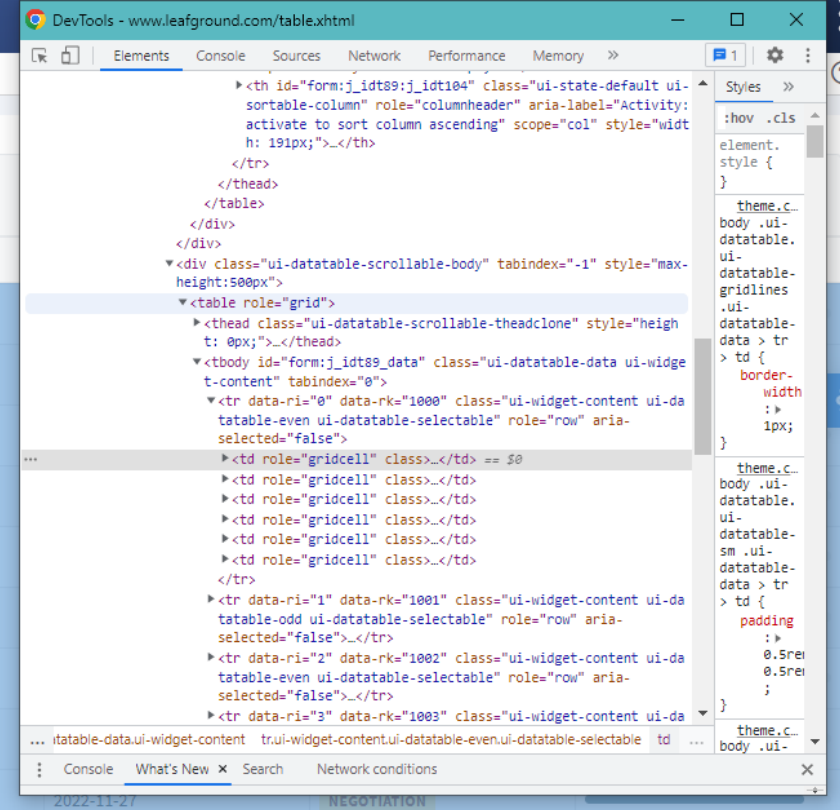
<th></th> - header information of the table

<td></td> - represents column data of the table



The screenshot shows a web application interface with a table titled "Customer Analytics Table". The table has three columns: "Country" (with an up/down arrow), "Representative" (with an up/down arrow), and an unnamed column. The table contains 10 rows of data. A tooltip over the table indicates its dimensions as "table 1237 x 471".

| Country ↑↓ | Representative ↑↓ | |
|----------------|-------------------|--------------------|
| Germany | Ioni Bowcher | Isabel Clifford |
| Spain | Elwin Sharvill | Costa Stacey |
| Russia | Xuxue Feng | Ashley Izzy |
| Spain | Stephen Shaw | Claire Deepesh |
| Spain | Asiya Javayant | Arvin Mayumi |
| India | Xuxue Feng | Clifford Greenwood |
| India | Stephen Shaw | Nicolas Emily |
| Japan | Asiya Javayant | Greenwood Faith |
| United Kingdom | Asiya Javayant | Munro Kaitlin |



Contd..

Structure of WebElement

```
<table>
<thead>
<tr>
    <th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
    <td></td>
    <td></td>
    <td></td>
</tr>
<tr>
    <td> </td>
</tr>
<tr>
    <td> </td>
</tr>
</tbody>
</table>
```

The screenshot displays a web browser window with the Testleaf logo and a table titled 'Customer Analytics Table'. The table has three columns: 'Country', 'Representative', and an unnamed column. The data rows are as follows:

| | Country | Representative |
|--------------------|----------------|----------------|
| Isabel Clifford | Germany | Ioni Bowcher |
| Costa Stacey | Spain | Elwin Sharvill |
| Ashley Izzy | Russia | Xuxue Feng |
| Claire Deepesh | Spain | Stephen Shaw |
| Arvin Mayumi | Spain | Asiya Javayant |
| Clifford Greenwood | India | Xuxue Feng |
| Nicolas Emily | India | Stephen Shaw |
| Greenwood Faith | Japan | Asiya Javayant |
| Munro Kaitlin | United Kingdom | Asiya Javayant |

On the right, the DevTools 'Elements' panel shows the HTML structure of the table. The table is a 'table' element with a 'role' of 'grid'. It contains a 'thead' and a 'tbody'. The 'tbody' contains multiple 'tr' elements, each with 'td' elements. The 'tr' elements have 'data-ri' and 'data-rk' attributes. The 'td' elements have 'role' and 'class' attributes.

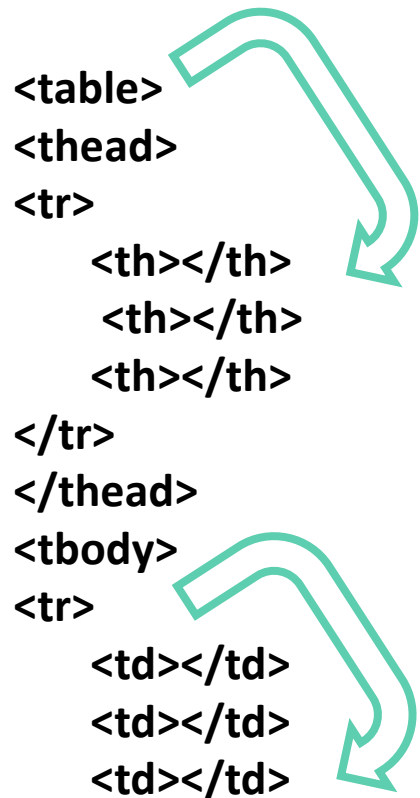
Contd..

Understand the webtable elements

The relationship between the Webtable Elements in order to locate the elements in the dom

<table> and **<th>** is **Grand Parent** to **Grand Child**

<tr> and **<td>** is **Parent** to **Child**



```
<table>
<thead>
<tr>
  <th></th>
  <th></th>
  <th></th>
</tr>
</thead>
<tbody>
<tr>
  <td></td>
  <td></td>
  <td></td>
```

Webtable Types

Based on the data placed in the table, It's of two types

- Static table
 - Rows and columns of the table will be fixed.
 - Fetching data from the table will be easy and can be automated using XPath
- Dynamic table
 - Rows and columns are dynamic
 - Cannot be handled easily as the rows and columns change according to the application requirement

Steps to handle Webtable

Step:1

Identify the table in the dom using `<table>`

Step:2

To access the row values, identify the row using `<tr>` to travel through the table

- Use List to get the number of rows to be iterated

Step:3

To access the column values, identify the column using `<th>/<td>` to travel through the table

- Use List to get the number of columns to be iterated

Step:4

-Act on the elements in the table with using WebElement function by iterating through the rows and columns

Summary

- Web table is identified with the tagname <table>
- Static table - Rows and columns of the table are fixed.
- Dynamic table - Rows and columns change according to the application requirement

Classroom:

1. Launch <https://erail.in/>
2. Enter 'From Station' as MAS and click Enter
3. Enter 'To Station' as CBE and click Enter
4. Deselect 'Sort on Date' checkbox
5. Get all the Train names
6. Verify if there are any duplicate train names