

## Selenium

Class 8

## Agenda

How to handle Web Tables

What is Table?	

information in a web page.
In HTML, table is created using tag. Web table is a HTML
structure for creating rows and columns on a Web page.

A web table can consists below parts:
• Header(s): It is created using tag.

Web tables are basically group of elements that are logically stored

in a row and column format. It is used to organize similar

Columns(s):It is created using tag.

There are two types of HTML tables:

Row(s):It is created using tag.

- Static tables: Data is static i.e. Number of rows and columns are fixed.
- Dynamic tables: Data is dynamic i.e. Number of rows and columns are NOT fixed.

When the table is dynamic in nature, we cannot predict its number of rows and columns. Selenium Webdriver allows us to access dynamic web tables by their X-path

## Fetch number of rows and columns from WebTable

```
public class WebTableDemo extends CommonMethods {
   public static void main(String[] args) {
       setUp("chrome", "http://jiravm.centralus.cloudapp.azure.com:8081/table-search-filter-demo.html");
       // GET NUMBER OF ROWS
       List<WebElement> rows = driver.findElements(By.xpath("//table[@class='table']/tbody/tr"));
       System.out.println("Number of rows =" + rows.size());
       System.out.println("-----");
       Iterator<WebElement> it = rows.iterator();
       while (it.hasNext()) {
           String rowText = it.next().getText();
           System.out.println(rowText);
       // GET NUMBER OF COLUMNS
       List<WebElement> cols = driver.findElements(By.xpath("//table[@class='table']/thead/tr/th"));
       System.out.println("Number of colums =" + cols.size());
       System.out.println("-----"):
       for (WebElement col : cols) {
           String colText = col.getText();
           System.out.println(colText);
       driver.quit();
```

## Fetch cell value of a particular row & column of Dynamic Table

```
List<WebElement> rows=driver.findElements(By.xpath("//table[@id='resultTable']/tbody/tr"));
List<WebElement> cols=driver.findElements(By.xpath("//table[@id='resultTable']/thead/tr/th"));
System.out.println("Number of rows is - " + rows.size() + " and columns is - " + cols.size());
     for(int i=1; i<=rows.size(); i++) {
          WebElement
row=driver.findElement(By.xpath("//table[@id='resultTable']/tbody/tr["+i+"]"));
          String rowData = row.getText();
          System.out.println("Row "+i+" data is "+rowData);
          if(rowData.contains("0003")) {
                driver.findElement(By.xpath("//table[@id='resultTable']/tbody/tr["+i+"]/td/input")).cli
ck();
                System.out.println("Clicked");
                break;
```