|  |  |  |
| --- | --- | --- |
|  | **Chrome Selenium** | **IE WatiN** |
| Global  Declaration | private static IWebDriver driver1 = null;  IJavaScriptExecutor excutor; | private static WatiN.Core.IE driver2 = null; |
| Navigate | driver1 = new ChromeDriver();  driver1.Navigate().GoToUrl(“http://google.com”); | driver2 = new WatiN.Core.IE();  driver2.GoTo(“http://google.com”);  driver2.WaitForComplete(); |
| ByClass | Driver1.FIndElement(By.ClassName(“button1”)). SendKeys(OpenQA.Selenium.Keys.Enter); | driver.Element(WatiN.Core.Find.**ByClass**(“button”)).click |
| Button | driver1.FindElement(By.Id("button1")).SendKeys(OpenQA.Selenium.Keys.Enter); | var element = driver2.Element(WatiN.Core.Find.ById("button1"));  element.Click();  or  driver2.Element(WatiN.Core.Find.ById("button1")).Click(); |
| Button | var elem = driver1.FindElement(By.Id(“overridelink”));  if (elem !=null)  {  Elem.SendKeys(OpenQA.Selenium.Keys.Enter);  Thread.Sleep(500);  } | WatiN.Core.Element elem = driver2.Element(WatiN.Core.Find.ById("overridelink"));  if (elem.**Exists**)  {  element.Click();  Thread.Sleep(500);  } |
| Set value | IWebElement user = driver1.FindElement(By.Id("user"));  if (user != null) user.SendKeys(txUser.Text); | WatiN.Core.Element elem = driver2.Element(WatiN.Core.Find.ById("user"));  if (elem.**Exists**) elem.Value = txUser.Text; |
| Get Value | var elem1 = driver1.FindElement(By.Id("user"));  string ss = elem1.Text; | var elem1 = driver2.Element(WatiN.Core.Find.ById("user"));  string ss = elem1.Text; |
| Link | driver.findElement(By.linkText("Close window")).click();  driver1.FindElement(By.ClassName("menuLink")).Click(); |  |
| CheckBox | user = driver1.FindElement(By.Id("input\_4\_1"));  user.Click(); |  |
| JavaScript | **executor = driver1 as IJavaScriptExecutor;**  string asignar = "document.getElementById('username').value='" +txUser.Text +"’”;  executor.ExecuteScript(asignar); | string asignar = "document.getElementById('username').value='" +txUser.Text +"’';  driver2.RunScript(asignar); |
| Listas | IList<IWebElement> spans = driver1.FindElements(By.Tagname("SPAN"));  for (int i = 0; i< spans.Count; i++)  {  string ver = spans[i].Text.ToString();  }  string CCC = spans[30]; | WatiN.Core.ElementCollection spans = driver2.ELementsWithTag("SPAN");  for (int i = 0; i< spans.Count; i++)  {  string ver = spans[i].Text.ToString();  }  string CCC = spans[30]; |
|  | var tabla = driver1.FindElement(By.Id(TablaID));  IList<IWebElement> Rows1 = tabla.FindElements(By.Tagname("**tr"**));  foreach (var item in Rows1)  {  string ver = item.Text.ToString();  } |  |
|  | IList<IWebElement> tabla = driver1.FindElements(By.TagName(“a”));  string fila = tabla[8].Text.ToString();  tabla[8]. SendKeys(OpenQA.Selenium.Keys.Enter);  IList<IWebElement> tabla = driver1.FindElements(By.TagName("title"));  int cuantos = tabla.Count;  string titulo = "";  for (int i = 0; i < tabla.Count; i++)  {  titulo = tabla[i].Text.ToString();  }  IList<IWebElement> tabla = driver1.FindElements(By.Id("splitWindowList"));  int cuantos = tabla.Count;  string titulo = "";  for (int i = 0; i < tabla.Count; i++)  {  titulo = tabla[i].Text.ToString();  IList<IWebElement> row =  tabla[i].FindElements(By.TagName("td"));  string open1 = row[31].Text.ToString();  string persona = row[32].Text.ToString();  cuantos = row.Count;  for (int j=30; j<row.Count; j++)  {  titulo = row[j].Text.ToString();  }  } | WatiN.Core.ElementCollection tabla = driver2.ELementsWithTag("a");  string fila = tabla[8].Text.ToString();  tabla[8].Click(); |
| Frame | IWebElement iFrame =  driver1.FindElement(By.TagName("iframe"));  driver1.SwitchTo().Frame(iFrame);  string pagina = driver1.PageSource;  // CHECK info  driver1.SwitchTo().DefaultContent(); | var element2 = browser.Frame("CRFrame").Element(WatiN.Core.Find.ById("1 "));  element2.Click(); |
| Switch | **AFTER A CLICK SOMETIMES IS NEEDED**  driver1.SwitchTo().DefaultContent();  driver1.SwitchTo().Frame("Inicio");  driver1.SwitchTo().Frame(driver1.FindElement(By.TagName("frame"))[1]); | driver2.Frames[0].Frames[2]….  driver2.Frames(“Inicio”).Frames… |
| dropDown | **IWebElement select = driver1.FindElement(By.Id("asdfd"));**  **IList<IWebElement> Rows1 = select.FindElements(By.TagName("option"));**  **Rows1[3].Click();** | var select = driver1.FindElement(By.Id("asdfd"));  select.Option(Find.ByValue("1").Select(); |
|  |  | private void ClickButtonIE(string ids, int times)  {  var Elem = driver2.Element(WatiN.Core.Find.ById(ids));  if (Elem. **Exists**)  {  Elem.Click();  Thread.Sleep(times);  }  } |
| REGEX | **private string GetID(string patron)**  {  string ids = "";  int i = 0;  if (ids =="" && i < 3)  {  i++;  string ids = Regex.Match(driver1.**PageSource**, patron, RegexOptions.IgnoreCase).Groups[0].Value;    if (ids ==””) Thread.Sleep(3000);  }  return ids;  }  string ids = **GetID**("C[0-9]+\_btqsrvcon\_Parameters");  ids = ids.Replace("\_btqsrvcon\_Parameters","");  string buscar = "document.getElementById('" + ids +"').value='" + SERIAL\_NO +"'");  executor.ExecuteScript(buscar); | **private string GetID(string patron)**  {  string ids = "";  int i = 0;  if (ids =="" && i < 3)  {  i++;  string ids = Regex.Match(driver2.**Html**, patron, RegexOptions.IgnoreCase).Groups[0].Value;    if (ids ==””) Thread.Sleep(3000);  }  return ids;  }  string ids = **GetID**("C[0-9]+\_btqsrvcon\_Parameters");  ids = ids.Replace("\_btqsrvcon\_Parameters","");  string buscar = "document.getElementById('" + ids +"').value='" + SERIAL\_NO +"'");  driver2.RunScript(buscar); |
| Multiple select | To perform multiple operations on DropDown object and Multiple Select object  Selenium’s Support.UI.Select package.  using OpenQA.Selenium.Support.UI;  SelectElement dd1 = new  SelectElement(driver.FindElement(By.Id("868191c")));    dd1.DeselectByValue("All");  dd1.SelectByValue("4"); // faster than select by Text |  |

private string WaitUrlChange(string url1, int times)

{

string url2= driver1.Url.ToString();

int i = 0;

while (url1 == url2 && i<4)

{

Thread.Sleep(2000);

url2= driver1.Url.ToString();

i++;

}

Thread.Sleep(1000);

return url2;

}

**IList<IWebElement>** tabla = driver1.FindElements(By.TagName("SPAN Tile")).**where**(elem=>elem.Text.Trim() == "Owner").FirstOrDefault;

= = = =

IList<IWebElement> tabla = driver1.FindElements(By.ClassName("**partiesTable**"));

IList<IWebElement> rows = tabla[1].FindElements(By.TagName("**tr**"));

foreach (var item2 in rows)

{

string = item2.Text;

}

= = = =

DataTable dt = new DataTable();

dt.Columns.Add("OrderNo", typeof(string));

dt.Columns.Add("Status", typeof(string));

DataRow dr = dt.NewRow();

dr[0] = "sss";

dr[1] = "aaa";

dt.Rows.Add(dr);

dgv.DataSource = dt;

dgv.Columns[0].Width = 70;

ELEMENT WITH TAG

IE.ElementWithTag("b", Find.First());

ie.ElementWithTag("h1", Find.ByClass("blue");

For example, to find the first <h1> on a page, use:

ie.Element("h1", Find.ByIndex(0))

var element = ie.Element(x => x.Text == "[innerText]" && x.TagName == "[tagname]");

**IMPORTANTE**

string lugar ="document.frames[0].frames[3].frames[1].document.documentElement.outerHTML";

string html = browser.Eval(lugar).ToString();

string ids = Regex(html, patron, RegexOptions.IgnoreCase).Groups[0].Value;

lugar = "document.frames[0].frames[3].frames[1].document.getElementById('" + ids + "').click();";

browser.RUnScript(lugar);

browser.WaitForComplete();

**WHEN HREF**

browser.Link( l => l.Text ==”Search”).Click();

element = driver.FindElement(By.CssSelector("[href\*='https://www.fieldglass.net/file\_upload.jsp?cf=1']"));

element.Click();