

## Web Scrapping based RestFUL Technology and Telegram Botting

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Net.Http;
using HtmlAgilityPack;
using System.Text;
using System.Data.Odbc;
using System.Threading.Tasks;
using Telegram.Bot;
using System;
namespace CrawlerDemo
{
    class Program
    {
        static string token = "5174594951:AAFG0vaVW0F9rVZr8JwGgk4cLrBMQ4P55qk";
        static Telegram.Bot.TelegramBotClient bot = new TelegramBotClient(token);

        public static void Main()
        {

            int offset = 0;
            while (true)
            {
                Telegram.Bot.Types.Update[] updates = bot.GetUpdatesAsync(offset).Result;
                try
                {
                    foreach (var update in updates)
                    {
                        offset = update.Id + 1;
                        if (update.Message != null)
                        {
                            long id = update.Message.From.Id;
                            string txt = update.Message.Text;
                            string username = update.Message.From.Username;
                            string firstname = update.Message.From.FirstName;
                            string lastname = update.Message.From.LastName;
                            if (update.Message.Text == "/start")
                            {
                                bot.SendTextMessageAsync(id, "Type of cars:-\n"+"KOENIGSEGG GEMERA \n" +
                                "UNE GT HYBRIDE DE 1700 CHEVAUX!\n" + "MERCEDES - BENZ AMG GT!\n" +
                                "LAMBORGHINI HURACAN!\n" + "PORSCHE 918 SPYDER! \n" + "BMW M6 GRAN COUPE\n" +
                                "BMW ZAGATO COUPÉ" + "F12BERLINETTA: LA FERRARI LA PLUS RAPIDE JAMAIS
                                CONSTRuite\n" + "BMW M6 2012\n" + " 560 CHEVAUX SOUS LE CAPOT!\n" + "NOUVELLE
                                PORSCHE 911\n" + "LAMBORGHINI AVENTADOR: SURVITAMINÉÉ!\n");
                                Console.WriteLine(txt);
                                Console.WriteLine(username);
                                Console.WriteLine(firstname);
                                Console.WriteLine(lastname);
                            }
                        }
                    }
                }
            }
        }
    }
}
```

```

        }

    }
}
catch { }

startCrawlerasync();

Console.WriteLine("press any key ");
Console.ReadLine();
}
}
class Car
{

    public string Model { get; set; }
    public string Price { get; set; }
    public string Link { get; set; }
    public string ImageUrl { get; set; }
}
public static async Task startCrawlerasync()
{

    //the url of the page we want to test
    var url = "https://www.automobile.tn/fr/neuf/bmw/serie-1-5p";
    var httpClient = new HttpClient();
    var html = await httpClient.GetStringAsync(url);
    var htmlDocument = new HtmlDocument();
    htmlDocument.LoadHtml(html);

    // a list to add all the list of cars and the various prices
    var cars = new List<Car>();
    var divs =
        htmlDocument.DocumentNode.Descendants("div")
            .Where(node => node.GetAttributeValue("class", " ").Equals("container")).ToList();
    var Prices =
        htmlDocument.DocumentNode.Descendants("Price")
            .Where(node => node.GetAttributeValue("class", " ").Equals("container")).ToList();

    foreach (var div in divs)
    {

        var car = new Car
        {

            // Model = div.Descendants("h2").FirstOrDefault().InnerText,
            Price = div.Descendants("div").FirstOrDefault().InnerText,
            // Link =
            div.Descendants("a").FirstOrDefault().ChildAttributes("href").FirstOrDefault().Value,
            // ImageUrl =
            div.Descendants("img").FirstOrDefault().ChildAttributes("src").FirstOrDefault().Value
        };

        cars.Add(car);

        Console.WriteLine("Successful.... " + car.Price);
        // Console.WriteLine("Successful.... " + car.Model);
        // Print original order
    }
}

```

```
Microsoft Visual Studio Debug Console
KONIGSEGG GEMERA
UNE GT HYBRIDE DE 1700 CHEVAUX!
MERCEDES - BENZ AMG GT!
LAMBORGHINI HURACAN!
PORSCHE 918 SPYDER!
BMW M6 GRAN COUPE
BMW ZAGATO COUPÉF12BERLINETTA: LA FERRARI LA PLUS RAPIDE JAMAIS CONSTRUITE
BMW M6 2012
560 CHEVAUX SOUS LE CAPOT!
NOUVELLE PORSCHE 911
LAMBORGHINI AVENTADOR: SURVITAMINÉ!
```

A screenshot of a WhatsApp chat conversation with a contact named 'Yasminmakkibot'. The contact's status is 'bot'. The chat background is a green patterned wallpaper with various cartoonish icons like a panda, a stork, a dinosaur, a hot air balloon, and a pizza. There are three message bubbles visible, all from the contact 'Yasminmakkibot'. Each bubble contains the same text: 'Type of cars:-', 'KOENIGSEGG GEMERA', 'UNE GT HYBRIDE DE 1700 CHEVAUX!', 'MERCEDES - BENZ AMG GT!', 'LAMBORGHINI HURACAN!', 'PORSCHÉ 918 SPYDER!', 'BMW M6 GRAN COUPE', 'BMW ZAGATO COUPÉF12BERLINETTA: LA FERRARI LA PLUS RAPIDE', 'JAMAIS CONSTRUITE', 'BMW M6 2012', '560 CHEVAUX SOUS LE CAPOT!', 'NOUVELLE PORSCHÉ 911', and 'LAMBORGHINI AVENTADOR: SURVITAMINÉE!'. The timestamp '11:43 PM' is visible at the bottom right of each message bubble. On the left side of the screen, there is a vertical list of chat icons, with the top one highlighted in blue, indicating the current chat.