HttpClient class provides a base class for sending/receiving the HTTP requests/responses from a URL. It is a supported async feature of .NET framework. HttpClient is able to process multiple concurrent requests. It is a layer over HttpWebRequest and HttpWebResponse. All methods with HttpClient are asynchronous.

**Install-Package Microsoft.AspNet.WebApi.Client**

using Newtonsoft.Json;

using System;

using System.Collections.Generic;

using System.Linq;

using System.Net.Http;

using System.Net.Http.Headers;

using System.Text;

using System.Threading.Tasks;

namespace CallingWebApiUsingHttpClient

{

class Program

{

static void Main(string[] args)

{

GetStudentByID()

.Wait();

GetStudents()

.Wait();

Insert().Wait();

Put().Wait();

Delete().Wait();

}

static async Task GetStudentByID()

{

using (var client = new HttpClient())

{

//Send HTTP requests from here.

client.BaseAddress = new Uri("https://localhost:44322/");

client.DefaultRequestHeaders.Accept.Clear();

client.DefaultRequestHeaders.Accept.Add(new MediaTypeWithQualityHeaderValue("application/json"));

//GET Method

HttpResponseMessage response = await client.GetAsync("api/Students/7");

if (response.IsSuccessStatusCode)

{

Student student = await response.Content.ReadAsAsync<Student>();

Console.WriteLine("Id:{0}\tName:{1}", student.StudentId, student.Name);

// Console.WriteLine("No of Employee in Department: {0}", department.Employees.Count);

}

else

{

Console.WriteLine(response.ReasonPhrase);

Console.WriteLine("Internal server Error");

}

}

}

static async Task GetStudents()

{

using (var client = new HttpClient())

{

//Send HTTP requests from here.

client.BaseAddress = new Uri("https://localhost:44322/");

client.DefaultRequestHeaders.Accept.Clear();

client.DefaultRequestHeaders.Accept.Add(new MediaTypeWithQualityHeaderValue("application/json"));

//GET Method

HttpResponseMessage response = await client.GetAsync("api/Students");

if (response.IsSuccessStatusCode)

{

var jsonString = response.Content.ReadAsStringAsync();

jsonString.Wait();

var student = JsonConvert.DeserializeObject<List<Student>>(jsonString.Result);

foreach (var temp in student)

{

Console.WriteLine("Id:{0}\tName:{1}", temp.StudentId, temp.Name);

// Console.WriteLine("No of Employee in Department: {0}", department.Employees.Count);

}

}

else

{

Console.WriteLine(response.ReasonPhrase);

Console.WriteLine("Internal server Error");

}

}

}

static async Task Insert()

{

using (var client = new HttpClient())

{

//Send HTTP requests from here.

client.BaseAddress = new Uri("https://localhost:44322/");

var department = new Student() { StudentId = 10, Name = "Test Department" };

HttpResponseMessage response = await client.PostAsJsonAsync("api/Students", department);

if (response.IsSuccessStatusCode)

{

// Get the URI of the created resource.

Uri returnUrl = response.Headers.Location;

Console.WriteLine(returnUrl);

}

}

}

static async Task Put()

{

using (var client = new HttpClient())

{

//Send HTTP requests from here.

client.BaseAddress = new Uri("https://localhost:44322/");

//PUT Method

var department = new Student() { StudentId = 9, Name = "Updated Department" };

int id = 1;

HttpResponseMessage response = await client.PutAsJsonAsync("api/Students/" + id, department);

if (response.IsSuccessStatusCode)

{

Console.WriteLine("Success");

}

}

}

static async Task Delete()

{

using (var client = new HttpClient())

{

//Send HTTP requests from here.

client.BaseAddress = new Uri("https://localhost:44322/");

int id = 1;

HttpResponseMessage response = await client.DeleteAsync("api/Students/" + id);

if (response.IsSuccessStatusCode)

{

Console.WriteLine("Success");

}

}

}

}

}

<https://www.c-sharpcorner.com/article/calling-web-api-using-httpclient/>