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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 UsingHttpClient
{
    class Program
    {
        //private static object awaitresponse;

        static async Task Main(string[] args)
        {
            try
            {
                Task.Run(()=>httpGet());
                //Task.Run(() => httpPost());
                //Task.Run(() => httpPut());
                //Task.Run(() => httpDelete());
                Console.ReadKey();
            }
            catch(Exception e)
            {
                Console.WriteLine(e.Message);
            }
        }

        public static void httpGet()
        {
            try
            {
                List<User> lstusers = new List<User>();
                string apiRoutteurl = "http://localhost:64838/api/Home1/getUsers";
                using (var client = new HttpClient()) //using System.Net.Http;
                {
                    client.BaseAddress = new Uri(apiRoutteurl);
                    using (var awaitresponse = client.GetAsync(apiRoutteurl))
                    {
                        using (var responseContent =
awaitresponse.GetAwaiter().GetResult().Content)
                        {
                            var result = responseContent.ReadAsStringAsync().Result;
                            lstusers =
JsonConvert.DeserializeObject<List<User>>(result.ToString());
                            foreach (var user in lstusers)
                            {
                                Console.WriteLine("################################");
                                Console.WriteLine("User Id =" + user.id);
                                Console.WriteLine("User Name =" + user.name);
                                Console.WriteLine("User email =" + user.email);
                                Console.WriteLine("User Password =" + user.password);
                                Console.WriteLine("User Job Status =" + user.jobStatus);
                                Console.WriteLine("################################");
                            }
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                    }
                }
            }
        }
        catch(Exception e)
        {
            Console.WriteLine(e.Message);
        }
    }

    public static void httpPost()
    {
        try
        {
            User u1 = new User { id = 7, name = "sandhushi", email =
"sandhushi@gmail.com", password = "welcome", jobStatus = false };
            string apiroutteurl = "http://localhost:64838/api/home1/adduser";
            using (var client = new HttpClient()) //using system.net.http;
            {
                client.BaseAddress = new Uri(apiroutteurl);
                client.DefaultRequestHeaders.Accept.Add(new
MediaTypeWithQualityHeaderValue("application/json"));
                var jsondata = JsonConvert.SerializeObject(u1); //using
newtonsoft.json;
                using (var awaitresponse = client.PostAsync(apiroutteurl, new
StringContent(jsondata, Encoding.UTF8, "application/json")))
                {
                    using (var responsecontent =
awaitresponse.GetAwaiter().GetResult().Content)
                    {
                        var result = responsecontent.ReadAsStringAsync().Result;
                        Console.WriteLine(result);
                    }
                }
            }
        }
        catch(Exception e)
        {
            Console.WriteLine(e.Message);
        }
    }

    public static void httpPut()
    {
        try
        {
            User u1 = new User { id = 7, email = "sanjudushi@gmail.com" };
            string apiroutteurl = "http://localhost:64838/api/home1/updateUser";
            using (var client = new HttpClient()) //using system.net.http;
            {
                client.BaseAddress = new Uri(apiroutteurl);
                client.DefaultRequestHeaders.Accept.Add(new
MediaTypeWithQualityHeaderValue("application/json"));
                var jsondata = JsonConvert.SerializeObject(u1); //using
newtonsoft.json;
                using (var awaitresponse = client.PutAsync(apiroutteurl, new
StringContent(jsondata, Encoding.UTF8, "application/json")))
                {
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                        using (var responsecontent =
awaitresponse.GetAwaiter().GetResult().Content)
                        {
                            var result = responsecontent.ReadAsStringAsync().Result;
                            Console.WriteLine(result);
                        }
                    }
                }
            }
            catch(Exception e)
            {
                Console.WriteLine(e.Message);
            }
        }

        public static void httpDelete()
        {
            try
            {

                string apiroutteurl = "http://localhost:64838/api/home1/deleteUser?id=8";
                using (var client = new HttpClient()) //using system.net.http;
                {
                    client.BaseAddress = new Uri(apiroutteurl);
                    using (var awaitresponse = client.DeleteAsync(apiroutteurl))
                    {
                        using (var responsecontent =
awaitresponse.GetAwaiter().GetResult().Content)
                        {
                            var result = responsecontent.ReadAsStringAsync().Result;
                            Console.WriteLine(result);
                        }
                    }
                }
            }
            catch (Exception e)
            {
                Console.WriteLine(e.Message);
            }
        }
    }

    public class User
    {
        public int id;
        public string name;
        public string email;
        public string password;
        public bool jobStatus;
    }
}
```