



# USER'S ACTIVITY LOGGING IN ASP.NET CORE MVC APPLICATION | C#

NOVEMBER 21, 2018

In this Article, I'm going to Implement **User's Activity Logging** in Asp.net Core MVC Application. If an application is managed by more than one users then you must be aware that who is performing which activity.



## WHY ACTIVITY LOGGING

Before start Implementation, you must have a clear idea for what kind of

[Privacy](#) - [Terms](#)



DO NOT FORGET TO CHECK THIS

Eliminate grammar errors instantly & enhance your writing. Try now

Let say you have an Admin Panel for managing your App or Website backend & you have more than one Administrator to manage your Admin Panel. If an Admin Create, Delete or Update records then you must be aware of his the activities in your Application.

Here's the Admin Panel Tutorial you might be interested => [Creating Admin Panel in Asp.net Core MVC – Step by Step Tutorial](#)

## EXAMPLE ACTIVITIES TO LOG

1. Login, Logout
2. Create, Delete or Update a Record
3. Create or remove a User
4. Update Profile Info
5. Change Password
6. etc

Now, I'll explain the several ways to Log the **Users Activities**.

## NUGET LIBRARIES WITH ACTION FILTERS

There are many Libraries available to Log Users Activities as well as Error. Some Libraries also facilitates us to generate Log files automatically. Here are some of the most commonly used libraries [Log4Net](#), [Elmah](#). Usually, these libraries used with



## CUSTOM IMPLEMENTATION

When the first time I looked at some of the most common logging libraries, and they seemed like more work to set up than to write on my own. So I decided to write my own code to log the Users Activities in my Application.

### WHAT TO SAVE AS LOG

1. User Email/Username/Id
2. Full Name
3. Ip Address of Client System
4. Current Time
5. JavaScript Navigator userAgent Property
6. Log Type(e.g Login, Logout, Edit Profile Info, Change Password)

**\* Never save User Password in Logs**

### IMPLEMENTATION

At the time of successful login store User Id, Email, Full name, IP Address & the JavaScript Navigator userAgent Property using Session or any other temporary Data store Technique.

## Best Tool For Students

Eliminate grammar errors instantly & enhance your writing. Try now





Applications.

With a single Statement, like this `navigator.userAgent`

We'll get something like this

*User-agent header sent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10\_14\_0)  
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.102 Safari/537.36*

## How to Get Client IP Address using C#

Here's the Code to Get Client's IP Address

```
1. public static string GetLocalIPAddress()  
2. {  
3.     var host = Dns.GetHostEntry(Dns.GetHostName());  
4.     foreach (var ip in host.AddressList)  
5.     {  
6.         if (ip.AddressFamily == AddressFamily.InterNetwork)  
7.         {  
8.             return ip.ToString();  
9.         }  
10.    }  
11.    throw new Exception("No network adapters with an IPv4 address in the system!");  
12. }
```

You may also Get & store the Mac Address of the user.

& Don't forget to store Current Time with each Log Record.

## CONCLUSION

Applications like Admin Panel must log each Activity of the user because we usually



logs in a huge number that may affect your Database performance. For the Critical Actions, e.g. an admin is deleting another user, you must send an Email to the super admin Immediately.

Thank you for reading, share with the community If you find this helpful or comment below If you have any Question.

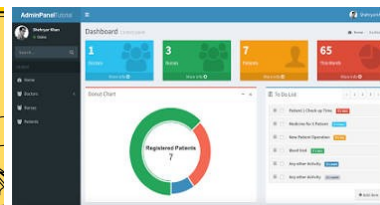
← Creating Interactive Dashboards

Role Based Authorization →



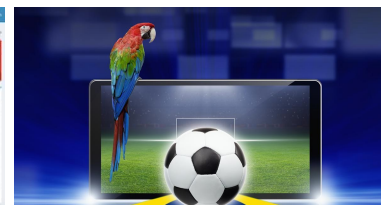
**Monitoring is easier with PRTG**

Ad PRTG Network Monitor



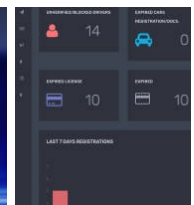
**Creating Interactive Dashboards in Asp.net Core MVC**

codinginfinite.com



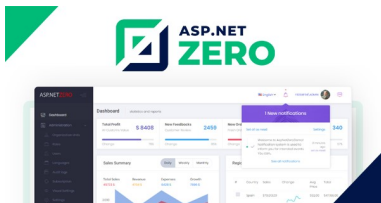
**.NET Konferencia Varsóban. - Október 23-25**

Ad net.developerdays.pl



**How to Create Panel | Best Tips**

codinginfinite.com



**AspNet Zero**

Ad Volosoft



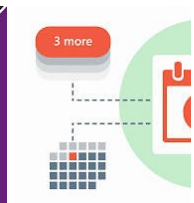
**Best 20 dot Net Core Libraries Every Developer should know**

codinginfinite.com



**Upload File to SFTP Server using C# | DotNet Core | SSH.NET**

codinginfinite.com



**Creating Schedule in Seconds, M**

codinginfinite.com



AUTHOR

## SHEHRYAR KHAN

I'm passionate about learning new technologies as well as mentoring and helping others get started with their programming career. This blog is my way of giving back to the Community.



### RELATED POSTS



#### MULTI-THREADED TCP SERVER USING DOTNET CORE EXAMPLE | C#

JUNE 3, 2019

Status	Latest release
Preview	3.0.0-preview5
Current	2.2.5
LTS	2.1.11
End of life	2.0.9
LTS	1.1.13
LTS	1.0.16

#### SELECTING DOTNET CORE SDK VERSION WHILE CREATING A NEW PROJECT

MAY 23, 2019



#### THE ULTIMATE GUIDE TO THE BEST .NET CORE E-COMMERCE OPEN SOURCE PLATFORMS

MAY 12, 2019

### 1 COMMENT

**MUBASIT**

2 MONTHS AGO

Impressed the way you people are working and helping other people to get their life

**REPLY**



reward you more than your expectation .

#### WRITE A COMMENT

Enter your comment here..

☐ Save my name, email, and website in this browser for the next time I comment.

☒ Notify me when new comments are added.

POST COMMENT

Type and hit enter...



1.6K Facebook



Twitter



## SUBSCRIBE

Subscribe to our newsletters to get an Email on every new Article

Email Address \*

Choose Technology \*

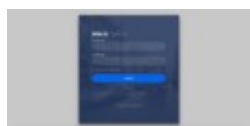
SUBSCRIBE





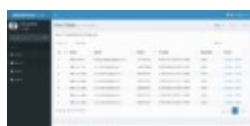


## TOP ARTICLES



### SIGNUP LOGIN PAGE IN PHP WITH DATABASE MYSQL SOURCE CODE

MAY 27, 2018



### CRUD OPERATIONS IN ASP.NET CORE MVC

NOVEMBER 10, 2018



### HERE ARE THE TEN BEST PROGRAMMING LANGUAGES TO LEARN IN 2019

DECEMBER 22, 2018



### OPEN SOURCE BULK SMS SENDER ANDROID APP

APRIL 16, 2018



### CAR LOCATION TRACKING ANDROID APP WITH FIREBASE TUTORIAL

AUGUST 28, 2018



## CAR LOCATION TRACKING ANDROID APP WITH FIREBASE TUTORIAL | PART 2

AUGUST 28, 2018



© 2018 CODING INFINITE - ALL RIGHTS RESERVED

^ TOP

