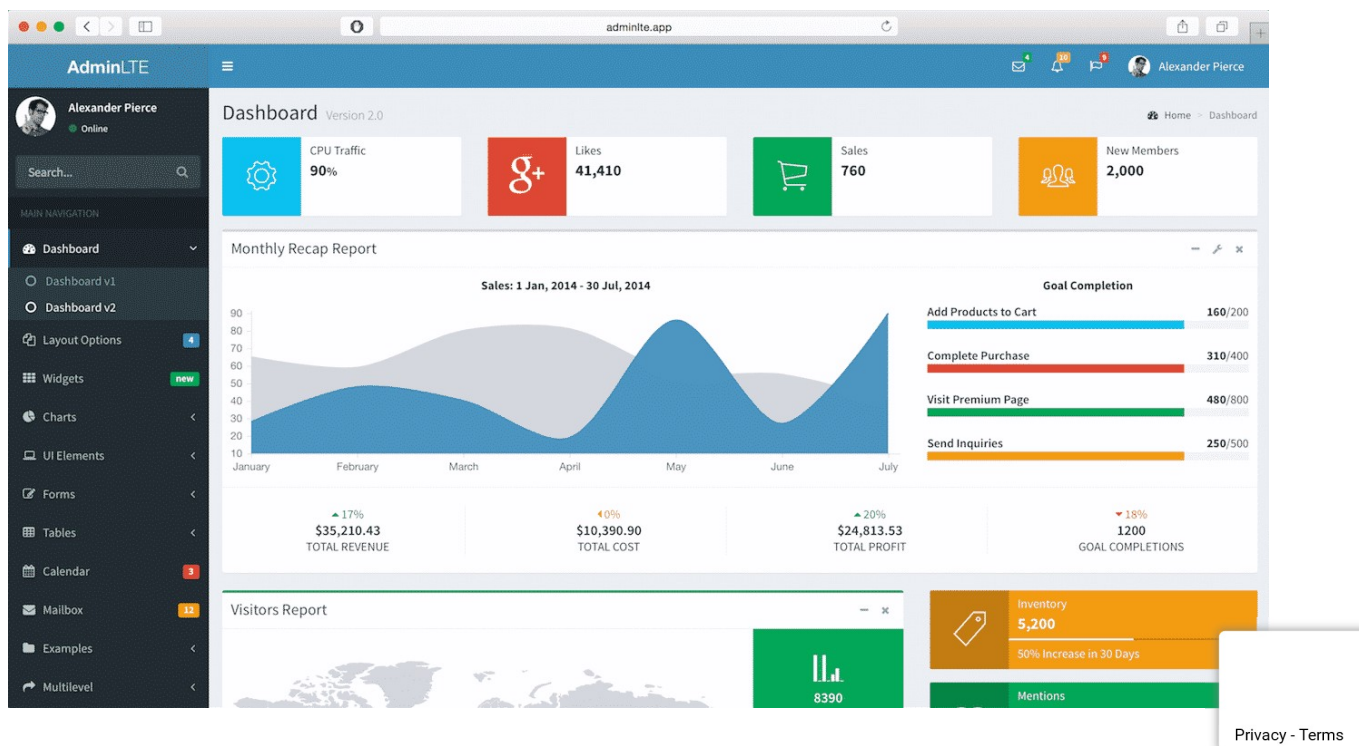




CREATING INTERACTIVE DASHBOARDS IN ASP.NET CORE MVC

NOVEMBER 25, 2018

Dashboards used to represent Application's Data. Actually one of the main purposes of a Dashboard is to give an overview of the complete application. In Applications like Admin Panel, Dashboards should be Powerfull enough to give a complete summary of your Apps running in a real-time environment.



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

Elementor - #1 WP Page Builder

Simple, Powerful & Flexible. Reach High-End Designs Without Codi

Creating Dashboards breaks down into two portions:

1. Dashboard Design
2. Populating it with required data.

For the first portion, you'll have to do CSS and HTML work. And for it, you can search for already created HTML templates.

Chats, Graphs, Tables & Tiles make the Dashboards more Interactive & help to better understand your business. So, Let's start from here.

I'll recommend you to always use a Template to create Dashboards because in a Template you'll get everything already included for you. You'll just need to download, Setup & start development.

I'll use [AdminLTE](#) for Designing our Dashboards. If you don't know how to setup **AdminLTE Template with Asp.net Core MVC Project**,

here's the simple setup Tutorial for you => [Setting up Admin Template in Asp.net Core MVC](#)

I hope that following above article you have setup Template with your Asp.net Core project.



Elementor - #1 WP Page Builder

Simple, Powerful & Flexible. Built For Professionals From Freelance

Add this Line at the start of your “_Layout.cshtml” page right after Bootstrap css

1. <!-- Morris chart -->
2. <link rel="stylesheet" href="bower_components/morris.js/morris.css">

Like this

```
<meta content="width=device-width, initial-scale=1, maximum-scale=1, user-scalable=no" name="viewport">
<link rel="stylesheet" href="~/bower_components/bootstrap/dist/css/bootstrap.min.css">
You, a few seconds ago • Uncommitted changes
<!-- Morris chart -->
<link rel="stylesheet" href="bower_components/morris.js/morris.css">
<!-- Font Awesome -->
<link rel="stylesheet" href="~/bower_components/font-awesome/css/font-awesome.min.css">
```

Now Open your “Index.cshtml” inside your Views -> Home Folder & paste this code:

```
1. @model AdminPanelTutorial.Models.DashboardViewModel
2.
3. <section class="content-header">
4.     <h1>
5.         Dashboard
6.         <small>Control panel</small>
7.     </h1>
8.     <ol class="breadcrumb">
9.         <li><a href="#"><i class="fa fa-dashboard"></i> Home</a></li>
10.        <li class="active">Dashboard</li>
11.    </ol>
12. </section>
13. <!-- Main content -->
14. <section class="content">
15.     <!-- Small boxes (Stat box) -->
16.     <div class="row">
17.         <div class="col-lg-3 col-xs-6">
18.             <!-- small box -->
19.             <div class="small-box bg-aqua">
20.                 <div class="inner">
21.                     <h3>@Model.doctors_count</h3>
```

```
22.         <p>Doctors</p>
23.     </div>
24.     <div class="icon">
25.         <i class="fa fa-users"></i>
26.     </div>
27.     <a href="#" class="small-box-footer">More info <i class="fa fa-arrow-
circle-right"></i></a>
28. </div>
29. </div>
30. <!-- ./col -->
31. <div class="col-lg-3 col-xs-6">
32.     <!-- small box -->
33.     <div class="small-box bg-green">
34.         <div class="inner">
35.             <h3>@Model.nurses_count<sup style="font-size: 20px"></sup></h3>
36.             <p>Nurses</p>
37.         </div>
38.         <div class="icon">
39.             <i class="fa fa-users"></i>
40.         </div>
41.         <a href="#" class="small-box-footer">More info <i class="fa fa-arrow-
circle-right"></i></a>
42.     </div>
43. </div>
44. <!-- ./col -->
45. <div class="col-lg-3 col-xs-6">
46.     <!-- small box -->
47.     <div class="small-box bg-yellow">
48.         <div class="inner">
49.             <h3>@Model.patients_count</h3>
50.             <p>Patients</p>
51.         </div>
52.         <div class="icon">
53.             <i class="ion ion-person"></i>
54.         </div>
55.         <a href="#" class="small-box-footer">More info <i class="fa fa-arrow-
circle-right"></i></a>
56.     </div>
57. </div>
58. <!-- ./col -->
59. <div class="col-lg-3 col-xs-6">
60.     <!-- small box -->
61.     <div class="small-box bg-red">
62.         <div class="inner">
63.             <h3>65</h3>
64.             <p>This Month</p>
65.         </div>
66.         <div class="icon">
67.             <i class="ion ion-pie-graph"></i>
68.         </div>
69.         <a href="#" class="small-box-footer">More info <i class="fa fa-arrow-
```

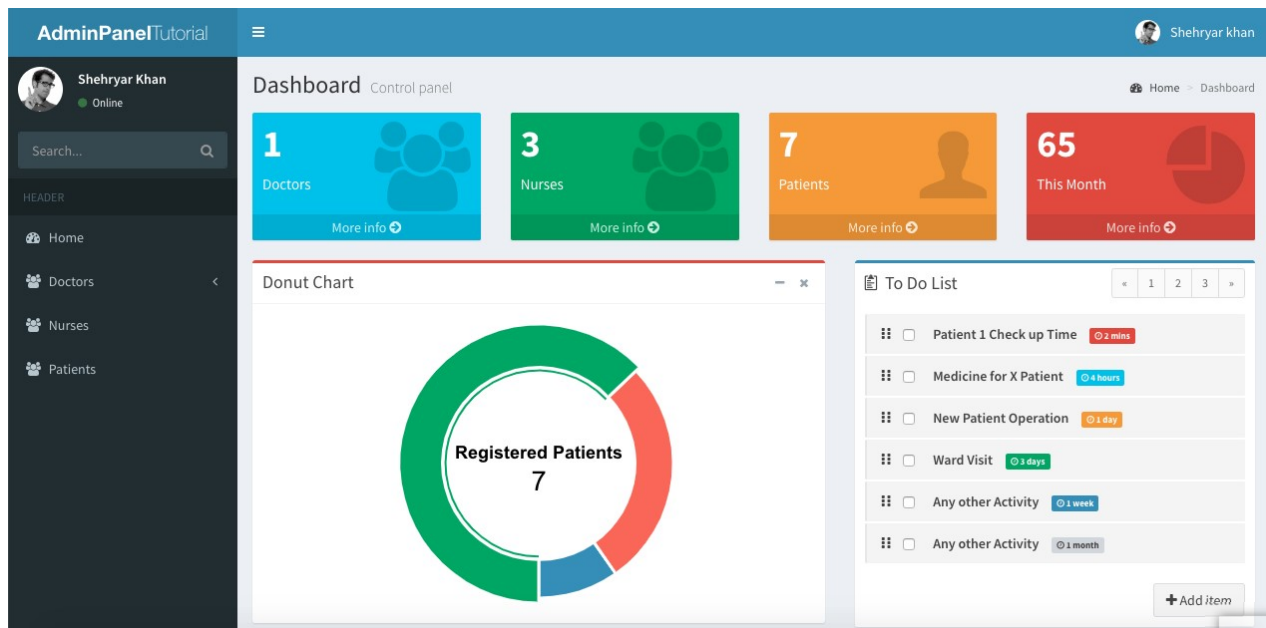
```
circle-right"></i></a>
70.         </div>
71.     </div>
72.     <!-- ./col -->
73. </div>
74. <!-- /.row -->
75. <!-- Main row -->
76. <div class="row">
77.     <!-- Left col -->
78.     <section class="col-lg-7 connectedSortable">
79.         <!-- Custom tabs (Charts with tabs)-->
80.         <!-- DONUT CHART -->
81.         <div class="box box-danger">
82.             <div class="box-header with-border">
83.                 <h3 class="box-title">Donut Chart</h3>
84.                 <div class="box-tools pull-right">
85.                     <button type="button" class="btn btn-box-tool" data-
widget="collapse"><i class="fa fa-minus"></i>
86.                 </button>
87.                     <button type="button" class="btn btn-box-tool" data-
widget="remove"><i class="fa fa-times"></i></button>
88.                 </div>
89.             </div>
90.             <div class="box-body chart-responsive">
91.                 <div class="chart" id="sales-chart" style="height: 300px; position:
relative;"></div>
92.             </div>
93.             <!-- /.box-body -->
94.         </div>
95.         <!-- /.nav-tabs-custom -->
96.     </section>
97.     <!-- /.Left col -->
98.     <!-- right col (We are only adding the ID to make the widgets sortable)-->
99.     <section class="col-lg-5 connectedSortable">
100.         <!-- TO DO List -->
101.         <div class="box box-primary">
102.             <div class="box-header">
103.                 <i class="ion ion-clipboard"></i>
104.                 <h3 class="box-title">To Do List</h3>
105.                 <div class="box-tools pull-right">
106.                     <ul class="pagination pagination-sm inline">
107.                         <li><a href="#">&laquo;</a></li>
108.                         <li><a href="#">1</a></li>
109.                         <li><a href="#">2</a></li>
110.                         <li><a href="#">3</a></li>
111.                         <li><a href="#">&raquo;</a></li>
112.                     </ul>
113.                 </div>
114.             </div>
115.             <!-- /.box-header -->
116.             <div class="box-body">
```

```
117.         <!-- See dist/js/pages/dashboard.js to activate the todoList plugin -->
118.         <ul class="todo-list">
119.             <li>
120.                 <!-- drag handle -->
121.                 <span class="handle">
122.                     <i class="fa fa-ellipsis-v"></i>
123.                     <i class="fa fa-ellipsis-v"></i>
124.                 </span>
125.                 <!-- checkbox -->
126.                 <input type="checkbox" value="">
127.                 <!-- todo text -->
128.                 <span class="text">Patient 1 Check up Time</span>
129.                 <!-- Emphasis label -->
130.                 <small class="label label-danger"><i class="fa fa-clock-o"></i> 2
mins</small>
131.
132.                 <!-- General tools such as edit or delete-->
133.                 <div class="tools">
134.                     <i class="fa fa-edit"></i>
135.                     <i class="fa fa-trash-o"></i>
136.                 </div>
137.             </li>
138.             <li>
139.                 <span class="handle">
140.                     <i class="fa fa-ellipsis-v"></i>
141.                     <i class="fa fa-ellipsis-v"></i>
142.                 </span>
143.                 <input type="checkbox" value="">
144.                 <span class="text">Medicine for X Patient</span>
145.                 <small class="label label-info"><i class="fa fa-clock-o"></i> 4
hours</small>
146.
147.                 <div class="tools">
148.                     <i class="fa fa-edit"></i>
149.                     <i class="fa fa-trash-o"></i>
150.                 </div>
151.             </li>
152.             <li>
153.                 <span class="handle">
154.                     <i class="fa fa-ellipsis-v"></i>
155.                     <i class="fa fa-ellipsis-v"></i>
156.                 </span>
157.                 <input type="checkbox" value="">
158.                 <span class="text">New Patient Operation</span>
159.                 <small class="label label-warning"><i class="fa fa-clock-o"></i> 1
day</small>
160.
161.                 <div class="tools">
162.                     <i class="fa fa-edit"></i>
163.                     <i class="fa fa-trash-o"></i>
164.                 </div>
165.             </li>
166.             <li>
167.                 <span class="handle">
```

```
165.         <i class="fa fa-ellipsis-v"></i>
166.         <i class="fa fa-ellipsis-v"></i>
167.     </span>
168.     <input type="checkbox" value="">
169.     <span class="text">Ward Visit</span>
170.     <small class="label label-success"><i class="fa fa-clock-o"></i> 3
days</small>
171.
172.     <div class="tools">
173.     <i class="fa fa-edit"></i>
174.     <i class="fa fa-trash-o"></i>
175.     </div>
176. </li>
177. <li>
178.     <span class="handle">
179.     <i class="fa fa-ellipsis-v"></i>
180.     <i class="fa fa-ellipsis-v"></i>
181.     </span>
182.     <input type="checkbox" value="">
183.     <span class="text">Any other Activity</span>
184.     <small class="label label-primary"><i class="fa fa-clock-o"></i> 1
week</small>
185.
186.     <div class="tools">
187.     <i class="fa fa-edit"></i>
188.     <i class="fa fa-trash-o"></i>
189.     </div>
190. </li>
191. <li>
192.     <span class="handle">
193.     <i class="fa fa-ellipsis-v"></i>
194.     <i class="fa fa-ellipsis-v"></i>
195.     </span>
196.     <input type="checkbox" value="">
197.     <span class="text">Any other Activity</span>
198.     <small class="label label-default"><i class="fa fa-clock-o"></i> 1
month</small>
199.
200.     <div class="tools">
201.     <i class="fa fa-edit"></i>
202.     <i class="fa fa-trash-o"></i>
203.     </div>
204. </li>
205. </ul>
206. </div>
207. <!-- /.box-body -->
208. <div class="box-footer clearfix no-border">
209.     <button type="button" class="btn btn-default pull-right"><i class="fa
fa-plus"></i> Add item</button>
210. </div>
211. </div>
212. <!-- /.box -->
213. </section>
214. <!-- right col -->
```

```
212.     </div>
213.     <!-- /.row (main row) -->
214. </section>
215.
216. <!-- Morris.js charts -->
217. <script src="bower_components/raphael/raphael.min.js"></script>
218. <script src="bower_components/morris.js/morris.min.js"></script>
219. <script>
220.     $(function () {
221.         "use strict";
222.         //DONUT CHART
223.         var donut = new Morris.Donut({
224.             element: 'sales-chart',
225.             resize: true,
226.             colors: ["#3c8dbc", "#f56954", "#00a65a"],
227.             data: [
228.                 {label: "Registered Doctors", value: @Model.doctors_count},
229.                 {label: "Registered Nurses", value: @Model.nurses_count},
230.                 {label: "Registered Patients", value: @Model.patients_count}
231.             ],
232.             hideHover: 'auto'
233.         });
234.     });
235. </script>
236. </body>
237. </html>
```

Run your Application & you'll see this page.



For populating above Page with real Data from DB you need to pass Data from Controller to View.

As a Best Practise, we'll use **ViewModel**.

Create a new Folder as “**ViewModels**” & inside this Folder create a new file with the name “**DashboardViewModel.cs**”

& Add this Code:

```
1. namespace AdminPanelTutorial.Models
2. {
3.     public class DashboardViewModel
4.     {
5.         public int doctors_count { get; set; }
6.         public int nurses_count { get; set; }
7.         public int patients_count { get; set; }
8.     }
9. }
10. }
```

* Don't forget to Update namespace here & in “Index.cshtml” File's First Line According to your project's namespace.

Now finally Add this code to your “**HomeController.cs**”:

```
1. using System.Linq;
2. using AdminPanelTutorial.Models;
3. using Microsoft.AspNetCore;
4. using Microsoft.AspNetCore.Hosting;
5. using Microsoft.AspNetCore.Mvc;
6.
7. namespace AdminPanelTutorial
8. {
9.     public class HomeController : Controller
10.    {
11.        private MyDbContext db = new MyDbContext();
12.        public IActionResult Index()
13.        {
14.            DashboardViewModel dashboard = new DashboardViewModel();
15.        }
16.    }
```

```
16.         dashboard.doctors_count = db.Doctors.Count();
17.         dashboard.nurses_count = db.Nurses.Count();
18.         dashboard.patients_count = db.Patients.Count();
19.
20.         return View(dashboard);
21.     }
22. }
23. }
```

I'm just getting Doctors, Nurses & Patients count & displaying in my Dashboard as an Example, you can Create ViewModel according to your Dashboard Design.

Running your project again, you'll see your Dashboard with real Doctors, Nurses & Patients count.

* Explore the AdminLTE Template to design your more Interactive Dashboards.
Your Application can have more than one Dashboard.

Comment below If you find any difficulty or If you find this Tutorial helpful.

[↩ CRUD Operations](#)

[User's Activity Logging ↪](#)



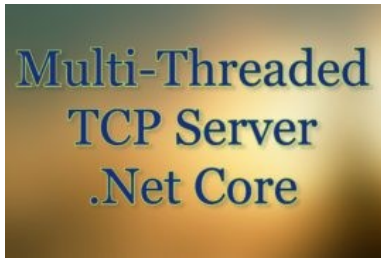
AUTHOR

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

3 COMMENTS



LUIS HARVEY TRIANA VEGA

2 MONTHS AGO

[REPLY](#)

Three notes

1) Is with ~/:

2) In MVC is very important use `@RenderSection("Scripts", required: false)` in `_layout`. This enclose Scripts in pages as `@section scripts{ ... }`, in strict order

3) I used `Pomelo.EntityFrameworkCore.MySql` and `ASP.NET Core`. Works fine.

Regards

**REHAN**

6 MONTHS AGO

[↩ REPLY](#)

Assalam aalykum bhai....
great work...

**THEKIP**

7 MONTHS AGO

[↩ REPLY](#)

hello. i am from poland. i uwielbiam was!

WRITE A COMMENT

Name

Email

Website

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**



1.6K Facebook



Twitter



YouTube



Instagram

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



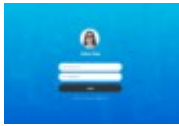
OPEN SOURCE BULK SMS SENDER ANDROID APP

APRIL 16, 2018



CAR LOCATION TRACKING ANDROID APP WITH FIREBASE TUTORIAL

AUGUST 28, 2018



LOGIN PAGE IN ASP.NET CORE MVC WITH DATABASE

OCTOBER 31, 2018



CAR LOCATION TRACKING ANDROID APP WITH FIREBASE TUTORIAL | PART 2

AUGUST 28, 2018



© 2018 CODING INFINITE - ALL RIGHTS RESERVED

^ TOP

