CREATING ADMIN PANEL IN ASP.NET CORE MVC – STEP BY STEP TUTORIAL

OCTOBER 30, 2018

Hey Guys! This is the very first Article on **Creating Admin Panel in Asp.net Core MVC**. We'll divide this tutorial into parts & will cover almost every necessary & required feature of the Admin Panel.

If you are going to develop **Admin Panel** for the first time, I'll recommend you to read my Article on **Admin Panel Best Practices & Tips** before start Development.

Asp.net Core is one of the emerging platforms from Microsoft. It's a cross-platform framework completely redesigned to be Fast, Lightweight, Modern & Flexible. Good news is that anyone having knowledge of .Net Framework can also work on .Net Core. It also Includes MVC which is the recommended way for Web Application like Admin Panel.

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Let's see what we'll cover in this Tutorial.

1. Choosing Template for Admin Panel

2. Creating a Hospital Database

3. Setup AdminLTE Template in Asp.net Core MVC project

4. Login Page for Admin Panel

5. Creating Interactive Dashboards

6. CRUD(Create, Read, Update, Delete) Operations

7. Activity Logging for Authorized Users

8. Role-Based Authorization

I'll recommend you to have a Cup of Coffee with you before starting this Tutorial.

So, here's the very first step of our Admin Panel.

CHOOSING TEMPLATE

In my Admin Panel Tips, I have already recommended you performance over personalization. So don't waste your time in designing the UI's for the Admin Panel. There are many Free & Premium Template Available for Admin Panels. So I'll recommend you guys to choose a Template & be focused on the performance of your Application.

There are many Free Templates Available, for this Tutorial, I'm going to use This Beautiful Admin Template by almasaeed.
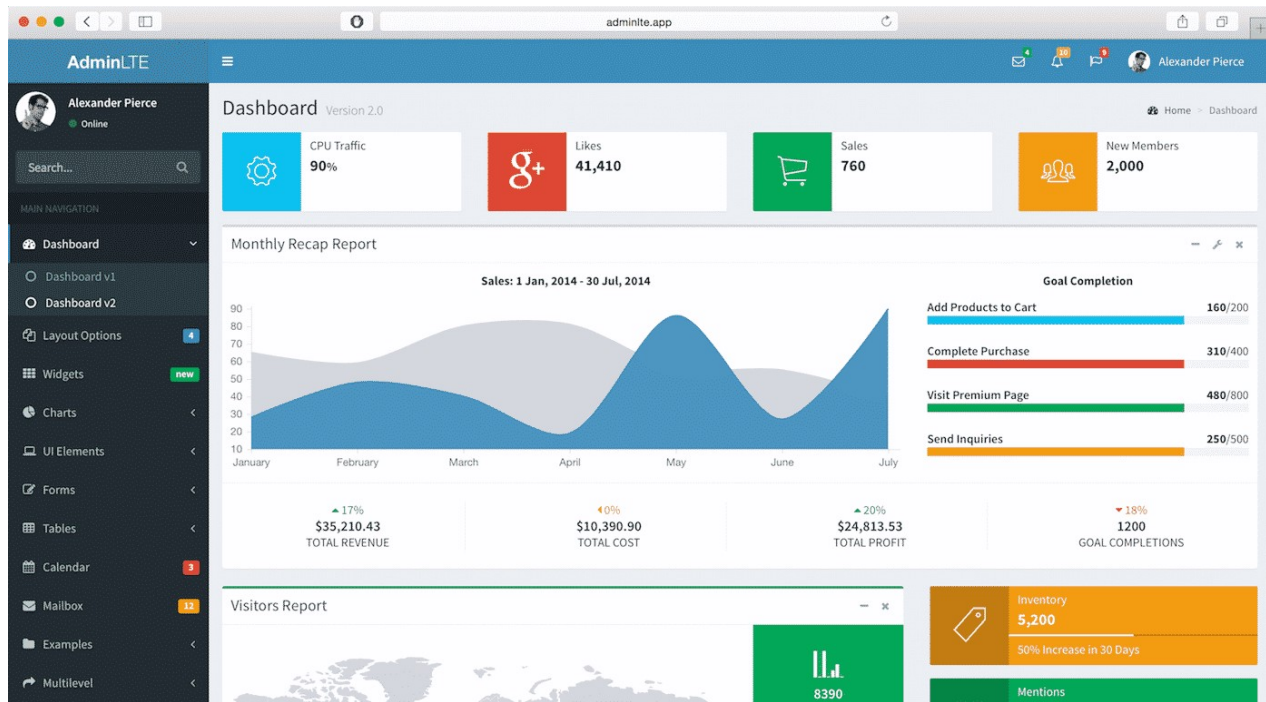
I personally like AdminLTE & have developed many Admin Panels using this Template.

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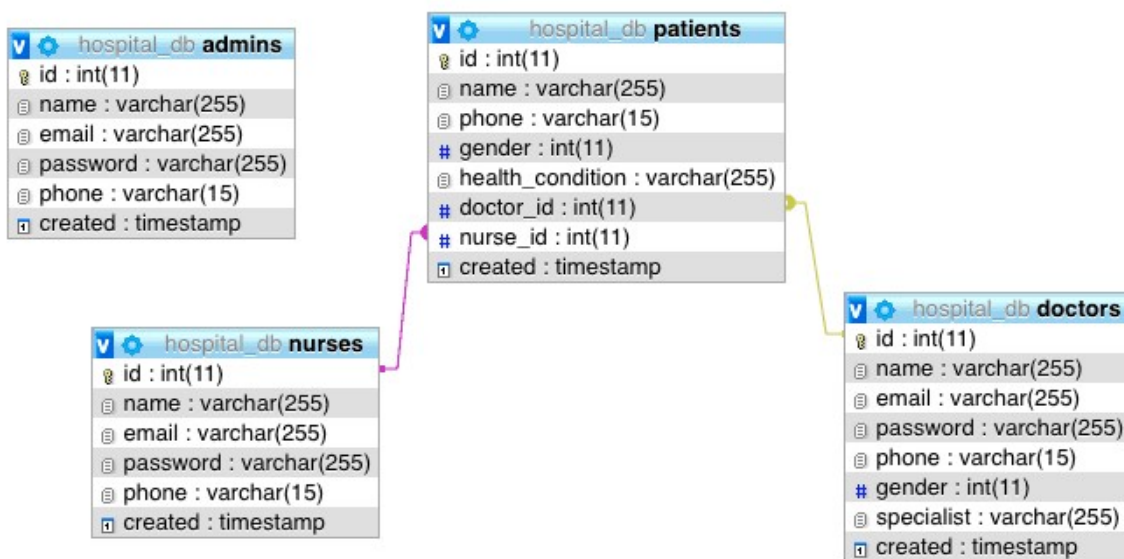Next Step is to Clone or Download the .zip File.

CREATING A DATABASE

It's time to create a database for your Admin Panel.

I'm going to use very simple Hospital Database with 4 Tables, "doctors", "nurses", "patients" & "admins".

You can use the database of your Web or Mobile App for which you are developing your Admin Panel.

Here's the Database I'm going to use with the name "hospital_db"

& here's the SQL script for this database

```
1.    -- phpMyAdmin SQL Dump
2.    -- version 4.7.7
3.    -- https://www.phpmyadmin.net/
4.    --
5.    -- Host: localhost
6.    -- Generation Time: Oct 30, 2018 at 08:08 AM
7.    -- Server version: 10.1.30-MariaDB
```

```
  8.   -- PHP Version: 7.2.1
  9.
 10.   SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
 11.   SET AUTOCOMMIT = 0;
 12.   START TRANSACTION;
 13.   SET time_zone = "+00:00";
 14.
 15.
 16.   /*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
 17.   /*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
 18.   /*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
 19.   /*!40101 SET NAMES utf8mb4 */;
 20.
 21.   --
 22.   -- Database: `hospital_db`
 23.   --
 24.
 25.   -- --------------------------------------------------------
 26.
 27.   --
 28.   -- Table structure for table `admins`
 29.   --
 30.
 31.   CREATE TABLE `admins` (
 32.     `id` int(11) NOT NULL,
 33.     `name` varchar(255) NOT NULL,
 34.     `email` varchar(255) NOT NULL,
 35.     `password` varchar(255) NOT NULL,
 36.     `phone` varchar(15) NOT NULL,
 37.     `created` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
 38.   ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
 39.
 40.   -- --------------------------------------------------------
 41.
 42.   --
 43.   -- Table structure for table `doctors`
 44.   --
 45.
 46.   CREATE TABLE `doctors` (
 47.     `id` int(11) NOT NULL,
 48.     `name` varchar(255) NOT NULL,
 49.     `email` varchar(255) NOT NULL,
 50.     `password` varchar(255) NOT NULL,
 51.     `phone` varchar(15) NOT NULL,
 52.     `gender` int(11) NOT NULL,
 53.     `specialist` varchar(255) NOT NULL,
 54.     `created` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
 55.   ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
 56.
 57.   --
 58.   -- Dumping data for table `doctors`
```

```sql
59.    --
60.
61.    INSERT INTO `doctors` (`id`, `name`, `email`, `password`, `phone`, `gender`,
       `specialist`, `created`) VALUES
62.    (1, 'Ahsan Saeed', 'ahsansaeed067@gmail.com',
       'Vm0xMFlWbFdWWGhVYmxKWFltdHdVRlpzV21GWFJscHlWV3RLVUZWVU1Eaz0=', '03218878961', 0,
       'Heart', '2018-05-01 13:07:24');
63.
64.    -- -------------------------------------------------------
65.
66.    --
67.    -- Table structure for table `nurses`
68.    --
69.
70.    CREATE TABLE `nurses` (
71.      `id` int(11) NOT NULL,
72.      `name` varchar(255) NOT NULL,
73.      `email` varchar(255) NOT NULL,
74.      `password` varchar(255) NOT NULL,
75.      `phone` varchar(15) NOT NULL,
76.      `created` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
77.    ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
78.
79.    --
80.    -- Dumping data for table `nurses`
81.    --
82.
83.    INSERT INTO `nurses` (`id`, `name`, `email`, `password`, `phone`, `created`) VALUES
84.    (1, 'Ahsan', 'ahsansaeed067@gmail.com', 'MTIzNDU=', '03218878961', '2018-06-27
       13:39:31'),
85.    (2, '2', 'ABC', 'WFla', '123456789', '2018-07-06 13:50:24'),
86.    (3, 'Shehryar khan', 'shehryar@appryx.com', 'YXBwcnl4', '3433243243', '2018-07-06
       18:12:35');
87.
88.    -- -------------------------------------------------------
89.
90.    --
91.    -- Table structure for table `patients`
92.    --
93.
94.    CREATE TABLE `patients` (
95.      `id` int(11) NOT NULL,
96.      `name` varchar(255) NOT NULL,
97.      `phone` varchar(15) NOT NULL,
98.      `gender` int(11) NOT NULL,
99.      `health_condition` varchar(255) NOT NULL,
100.     `doctor_id` int(11) NOT NULL,
101.     `nurse_id` int(11) NOT NULL,
102.     `created` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
103.   ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
104.
```

```
105.    --
106.    -- Dumping data for table `patients`
107.    --
108.
109.    INSERT INTO `patients` (`id`, `name`, `phone`, `gender`, `health_condition`,
        `doctor_id`, `nurse_id`, `created`) VALUES
110.    (6, 'hjj', '9988596666', 1, 'vbjbb', 1, 1, '2018-06-26 13:12:18'),
111.    (9, '2', '123456789', 1, 'OK', 1, 1, '2018-07-06 13:59:25'),
112.    (10, '2', '123456789', 1, 'OK', 1, 1, '2018-07-06 14:13:13'),
113.    (11, 'shehryar', '123456789', 1, 'OK', 1, 1, '2018-07-06 17:36:08'),
114.    (14, 'Coding Infinite', '3433243243', 0, 'asd', 1, 1, '2018-07-06 18:39:42'),
115.    (15, 'Coding Infinite', '3433243243', 0, 'asd', 1, 1, '2018-07-06 18:40:07'),
116.    (16, 'Coding Infinite', '3433243243', 0, 'asd', 1, 1, '2018-07-06 18:40:59');
117.
118.    --
119.    -- Indexes for dumped tables
120.    --
121.
122.    --
123.    -- Indexes for table `admins`
124.    --
125.    ALTER TABLE `admins`
126.      ADD PRIMARY KEY (`id`);
127.
128.    --
129.    -- Indexes for table `doctors`
130.    --
131.    ALTER TABLE `doctors`
132.      ADD PRIMARY KEY (`id`);
133.
134.    --
135.    -- Indexes for table `nurses`
136.    --
137.    ALTER TABLE `nurses`
138.      ADD PRIMARY KEY (`id`);
139.
140.    --
141.    -- Indexes for table `patients`
142.    --
143.    ALTER TABLE `patients`
144.      ADD PRIMARY KEY (`id`),
145.      ADD KEY `doctor_id` (`doctor_id`),
146.      ADD KEY `nurse_id` (`nurse_id`);
147.
148.    --
149.    -- AUTO_INCREMENT for dumped tables
150.    --
151.
152.    --
153.    -- AUTO_INCREMENT for table `admins`
154.    --
```

```
155.   ALTER TABLE `admins`
156.     MODIFY `id` int(11) NOT NULL AUTO_INCREMENT;
157.
158.   --
159.   -- AUTO_INCREMENT for table `doctors`
160.   --
161.   ALTER TABLE `doctors`
162.     MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
163.
164.   --
165.   -- AUTO_INCREMENT for table `nurses`
166.   --
167.   ALTER TABLE `nurses`
168.     MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
169.
170.   --
171.   -- AUTO_INCREMENT for table `patients`
172.   --
173.   ALTER TABLE `patients`
174.     MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=17;
175.
176.   --
177.   -- Constraints for dumped tables
178.   --
179.
180.   --
181.   -- Constraints for table `patients`
182.   --
183.   ALTER TABLE `patients`
184.     ADD CONSTRAINT `patients_ibfk_1` FOREIGN KEY (`doctor_id`) REFERENCES `doctors`
         (`id`),
185.     ADD CONSTRAINT `patients_ibfk_2` FOREIGN KEY (`nurse_id`) REFERENCES `nurses`
         (`id`);
186.   COMMIT;
187.
188.   /*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
189.   /*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
190.   /*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```

I'm using this database because we're developing Admin Panel for learning purpose. If you want to develop for your Website or Mobile App then you can use your database.

Now our database is ready & next step is to create an Asp.net project & setup

AdminLTE Template for our Admin Panel.

Creating Project & Setup Template ➦

If you find any problem, please share in the comment section below.

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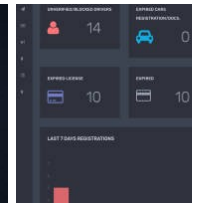
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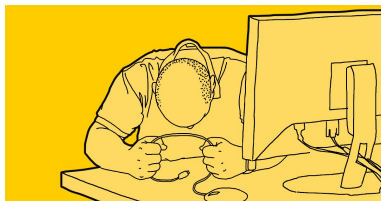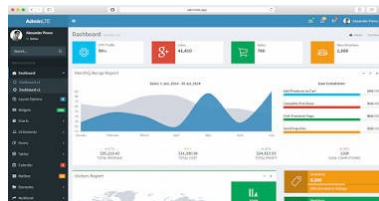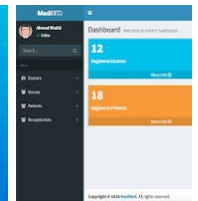
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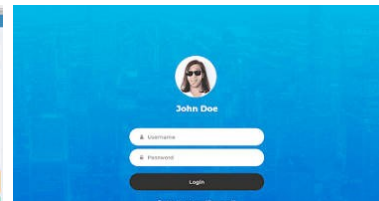
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AUTHOR

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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.

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