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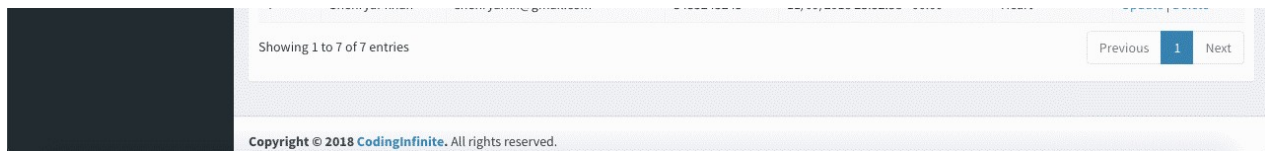
CRUD OPERATIONS IN ASP.NET CORE MVC

NOVEMBER 10, 2018

Yes, I'd say a large percentage of most applications I've worked on is basic **CRUD(Create, Read, Update, Delete)** operations. Especially In an Admin Panel, you need to repeat the **CRUD** Operations for every object in your system.

For creating beautiful & responsive UI, I'm using **AdminLTE** Template. So, In case if you missed Setting up AdminLTE in Asp.net Core, then you can find here => Setting up Admin Template in Asp.net Core MVC

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Assuming that you have followed the above tutorial & setup your project, let's start our Asp.net Core CRUD Operations Tutorial.

If you want to create Models from MySQL Database then you can follow this Article => Entity Framework Core Database First – Asp.Net Core Scaffold MySql DB

I'm performing my **CRUD Operation** on this Database Table. You can use your own Table.

First of all, create a Controller as **"DoctorsController.cs"** & Add this Code.

```
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 DoctorsController : Controller
10.       {
```

```csharp
11.          MyDbContext db = new MyDbContext();
12.          public ActionResult Index()
13.          {
14.              return View(db.Doctors.ToList());
15.          }
16.
17.          public ActionResult Create()
18.          {
19.              return View();
20.          }
21.
22.          [HttpPost]
23.          public ActionResult CreateDoctor(Doctors doctor){
24.              db.Doctors.Add(doctor);
25.              db.SaveChanges();
26.              return RedirectToAction("Index", "Doctors");
27.          }
28.
29.          [HttpPost]
30.          public bool Delete(int id){
31.              try
32.              {
33.                  Doctors doctor = db.Doctors.Where(s => s.Id == id).First();
34.                  db.Doctors.Remove(doctor);
35.                  db.SaveChanges();
36.                  return true;
37.              }
38.              catch (System.Exception)
39.              {
40.                  return false;
41.              }
42.
43.          }
44.
45.          public ActionResult Update(int id){
46.              return View(db.Doctors.Where(s => s.Id == id).First());
47.          }
48.
49.          [HttpPost]
50.          public ActionResult UpdateDoctor(Doctors doctor){
51.              Doctors d = db.Doctors.Where(s => s.Id == doctor.Id).First();
52.              d.Name = doctor.Name;
53.              d.Phone = doctor.Phone;
54.              d.Specialist = doctor.Specialist;
55.              db.SaveChanges();
56.              return RedirectToAction("Index", "Doctors");
57.          }
58.      }
59.  }
```

*Update your Solution name

Code Explanation:

Financial UX Audit. - Create Better I

Create better banking experiences, build brand differentiation, delight, e

We have an **Index** Method to list all records from Doctors Table to our DataTable.

We have **Create** Method to open Create Doctor Form & when we Submit this Form our **CreateDoctor** will be used to Add Doctor into the Database.

You must Encrypt your Password before storing it into Database. You may follow this Tutorial for Password Hashing Code => C# Hashing algorithm class

We have only one Method to **Delete Doctor** because we'll use Ajax to delete our Doctor.

Now Create a new Folder as **"Doctors"** inside your **"Views"** Folder & Create these 3 Files inside **"Doctors"** Folders => **"Index.cshtml"**, **"Create.cshtml"**, **"Update.cshtml"**
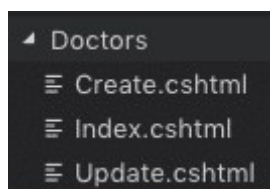
Add this Code into your **"Index.cshtml"**

```
1.  @model IEnumerable<AdminPanelTutorial.Models.Doctors>
2.
3.  <section class="content-header">
4.      <h1>
```

```
 5.          Doctors
 6.          </h1>
 7.          <ol class="breadcrumb">
 8.          <li><a href="#"><i class="fa fa-dashboard"></i> Home</a></li>
 9.          <li class="active">Doctors</li>
10.          </ol>
11.      </section>
12.      <!-- Main content -->
13.      <section class="content">
14.          <div class="row">
15.          <div class="col-xs-12">
16.              <div class="box">
17.              <div class="box-header">
18.                  <h3 class="box-title">Manage Doctors</h3>
19.              </div>
20.              <!-- /.box-header -->
21.              <div class="box-body">
22.                  <table id="example1" class="table table-bordered table-striped">
23.                  <thead>
24.                  <tr>
25.                      <th>Id</th>
26.                      <th>Name</th>
27.                      <th>Email</th>
28.                      <th>Phone</th>
29.                      <th>Created</th>
30.                      <th>Specialist</th>
31.                      <th>Action</th>
32.                  </tr>
33.                  </thead>
34.                  <tbody>
35.                      @foreach (var item in Model)
36.                      {
37.                          <tr>
38.                          <td>@Html.DisplayFor(modelItem => item.Id)</td>
39.                          <td>@Html.DisplayFor(modelItem => item.Name)</td>
40.                          <td>@Html.DisplayFor(modelItem => item.Email)</td>
41.                          <td>@Html.DisplayFor(modelItem => item.Phone)</td>
42.                          <td>@Html.DisplayFor(modelItem => item.Created)</td>
43.                          <td>@Html.DisplayFor(modelItem => item.Specialist)</td>
44.                          <td><a href="Doctors/Update/@item.Id">Update</a> | <a href=""
     onclick="Delete('@item.Id')">Delete</a></td>
45.                          </tr>
46.                      }
47.                  </table>
48.              </div>
49.              <!-- /.box-body -->
50.              </div>
51.              <!-- /.box -->
52.          </div>
53.          <!-- /.col -->
54.          </div>
```

```html
55.        <!-- /.row -->
56.    </section>
57.
58.    <!-- DataTables -->
59.    <script src="~/bower_components/datatables.net/js/jquery.dataTables.min.js">
       </script>
60.    <script src="~/bower_components/datatables.net-bs/js/dataTables.bootstrap.min.js">
       </script>
61.
62.    <!-- page script -->
63.    <script>
64.        $(function () {
65.            $('#example1').DataTable();
66.        });
67.        function Delete(id){
68.            var txt;
69.            var r = confirm("Are you sure you want to Delete?");
70.            if (r == true) {
71.
72.                $.ajax(
73.                {
74.                    type: "POST",
75.                    url: '@Url.Action("Delete", "Doctors")',
76.                    data: {
77.                        id: id
78.                    },
79.                    error: function (result) {
80.                        alert("error");
81.                    },
82.                    success: function (result) {
83.                        if (result == true) {
84.                            var baseUrl="/Doctors";
85.                            window.location.reload();
86.                        }
87.                        else {
88.                            alert("There is a problem, Try Later!");
89.                        }
90.                    }
91.                });
92.            }
93.        }
94.    </script>
```

* Don't forget to replace your Solution name with "AdminPanelTutorial" at the very First line of this Code

Add **"DataTables"** css file into your **"_Layout.cshtml"** (Created in the First Part of this Tutorial) after BootStrap css added at the start of the File

```
1.  <!-- DataTables -->
2.  <link rel="stylesheet" href="~/bower_components/datatables.net-bs/css
    /dataTables.bootstrap.min.css">
```

your "**__Layout.cshtml**" will look like this

```
7   <!-- Tell the browser to be responsive to screen width -->
8   <meta content="width=device-width, initial-scale=1, maximum-scale=1, user-scalable=no" name="viewport">
9   <link rel="stylesheet" href="~/bower_components/bootstrap/dist/css/bootstrap.min.css">
10
11  <!-- DataTables -->
12  <link rel="stylesheet" href="~/bower_components/datatables.net-bs/css/dataTables.bootstrap.min.css">
13
14  <!-- Font Awesome -->
15  <link rel="stylesheet" href="~/bower_components/font-awesome/css/font-awesome.min.css">
```

You can see that I have already Added Ajax at the End of the Code above to **Delete the Doctor Record** from the Database.

Now run your Project & go to http://localhost:port/Doctors (replace your port)

you'll see All Doctors from your Database Table.

You can Also Test Your Delete Operation, It should work fine.

Let's move Further & Add Code below into your "**Create.cshtml**"

```
1.  <!-- Content Header (Page header) -->
2.  <section class="content-header">
3.      <h1>
4.      Doctors
5.      </h1>
6.  </section>
7.  <!-- Main content -->
8.  <section class="content container-fluid">
9.      <!-- Horizontal Form -->
10.     <div class="box box-info">
11.     <div class="box-header with-border">
12.         <h3 class="box-title">Add Doctor</h3>
13.     </div>
14.     <!-- /.box-header -->
15.     <!-- form start -->
16.     <form class="form-horizontal" method="post" action="CreateDoctor">
```

```
17.          <div class="box-body">
18.          <div class="form-group">
19.              <label for="inputEmail3" class="col-sm-2 control-label">Name</label>
20.              <div class="col-sm-10">
21.              <input type="text" class="form-control" name="Name" placeholder="Name">
22.              </div>
23.          </div>
24.          <div class="form-group">
25.              <label for="inputEmail3" class="col-sm-2 control-label">Email</label>
26.              <div class="col-sm-10">
27.              <input type="email" class="form-control" name="Email"
      placeholder="Email">
28.              </div>
29.          </div>
30.          <div class="form-group">
31.              <label for="inputPassword3" class="col-sm-2 control-
      label">Password</label>
32.              <div class="col-sm-10">
33.              <input type="password" class="form-control" name="Password"
      placeholder="Password">
34.              </div>
35.          </div>
36.          <div class="form-group">
37.              <label for="inputEmail3" class="col-sm-2 control-label">Phone</label>
38.              <div class="col-sm-10">
39.              <input type="text" class="form-control" name="Phone"
      placeholder="Phone">
40.              </div>
41.          </div>
42.          <div class="form-group">
43.              <label for="inputEmail3" class="col-sm-2 control-
      label">Specialist</label>
44.              <div class="col-sm-10">
45.              <input type="text" class="form-control" name="Specialist"
      placeholder="Specialist">
46.              </div>
47.          </div>
48.          </div>
49.          <!-- /.box-body -->
50.          <div class="box-footer">
51.          <button type="submit" class="btn btn-default">Cancel</button>
52.          <button type="submit" class="btn btn-info pull-right">Create</button>
53.          </div>
54.          <!-- /.box-footer -->
55.      </form>
56.      </div>
57.      <!-- /.box -->
58.  </section>
```

Run your project & go to https://localhost:port/Doctors/Create

You'll see this Page

Try to create a new Doctor, It will Add new Doctor & redirect you to Index Page.

Now the last thing is our Update Operation.

Open your **"Update.cshtml"** file Add this Code

```
1.    @model AdminPanelTutorial.Models.Doctors
2.
3.    <section class="content-header">
4.        <h1>
5.        Doctors
6.        </h1>
7.    </section>
8.    <!-- Main content -->
9.    <section class="content container-fluid">
10.        <!-- Horizontal Form -->
11.        <div class="box box-info">
12.        <div class="box-header with-border">
13.            <h3 class="box-title">Update Doctor</h3>
14.        </div>
15.        <!-- /.box-header -->
16.        <!-- form start -->
17.        <form class="form-horizontal" method="post" action="/Doctors/UpdateDoctor">
18.            <div class="box-body">
19.                <div class="form-group">
```

```
20.          <label for="inputEmail3" class="col-sm-2 control-label">Email</label>
21.          <div class="col-sm-10">
22.          <input type="Email" class="form-control" name="Email"
       value="@Model.Email">
23.          </div>
24.        </div>
25.        <div class="form-group">
26.          <label for="inputEmail3" class="col-sm-2 control-label">Name</label>
27.          <div class="col-sm-10">
28.          <input type="text" class="form-control" name="Name" placeholder="Name"
       value="@Model.Name">
29.          </div>
30.        </div>
31.        <div class="form-group">
32.          <label for="inputEmail3" class="col-sm-2 control-label">Phone</label>
33.          <div class="col-sm-10">
34.          <input type="text" class="form-control" name="Phone"
       placeholder="Phone" value="@Model.Phone">
35.          </div>
36.        </div>
37.        <div class="form-group">
38.          <label for="inputEmail3" class="col-sm-2 control-
       label">Specialist</label>
39.          <div class="col-sm-10">
40.          <input type="text" class="form-control" name="Specialist"
       placeholder="Specialist" value="@Model.Specialist">
41.          </div>
42.        </div>
43.        <input type="hidden" name="Id" value="@Model.Id"/>
44.        </div>
45.        <!-- /.box-body -->
46.        <div class="box-footer">
47.        <button type="submit" class="btn btn-default">Cancel</button>
48.        <button type="submit" class="btn btn-info pull-right">Update</button>
49.        </div>
50.        <!-- /.box-footer -->
51.      </form>
52.      </div>
53.      <!-- /.box -->
54.    </section>
```

* Don't forget to replace your Solution name with "AdminPanelTutorial" at the very First line of this Code

Now run your Project & Update a Doctor Record.

I hope that everything is working fine & your CRUD operations are working

perfectly. You can use your UI Template & Database Table for Performing your CRUD Operations. I used This AdminLTE Template just to Beautify our UI you can use your own.

You can also download the complete project from GitHub.

☺ Download Source Code

Comment If you find any Difficulty, I'm here to help you. I'll reply you with Solution as soon as possible.

↩ **Creating Login Page Asp.net Core**

Creating Interactive Dashboards ↪

♥ 1   f   🐦   G+   P

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.

🏠

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56 COMMENTS

VISHWAS THAKUR   ↩ **REPLY**

3 WEEKS AGO

Please send me your full project. And please send me MydbContext. cs file....

My email joshivicky243@gmail.com

SHEHRYAR KHAN   POST AUTHOR   ↩ **REPLY**

2 WEEKS AGO

Now, it's available at GitHub https://github.com/shehryarkn/Asp.Net-
Core-CRUD-Operations-using-Admin-Template/tree/master

ZQ   ↩ **REPLY**

3 WEEKS AGO

hy kindly share with me the whole project on "zahid.qamar86@gmail.com"and
also tell me where did you make "MyDbContext db = new MyDbContext()" this
class?

SHEHRYAR KHAN   POST AUTHOR   ↩ **REPLY**

3 WEEKS AGO

check at the end of Scaffold string below. we can give any name instead of
MyDbContext.
   dotnet ef dbcontext scaffold "Server=localhost;User Id=root;
Password=1234;Database=MyTestDB"
"Pomelo.EntityFrameworkCore.MySql" -c MyDbContext -o Models
For Scaffold you can use this Tutorial
or if you want to Scaffold without Pomelo, here's my Tutorial for that =>
https://dottutorials.net/scaffold-mysql-dotnet-core-database-first-
approach/

AKIL

↩ **REPLY**

3 WEEKS AGO

Please send me the code in my e-mail id, akilcs08@gmail.com

SHEHRYAR KHAN   POST AUTHOR

↩ **REPLY**

3 WEEKS AGO

Sorry for my Late response. I have shared the Code.

ZISHAN

↩ **REPLY**

4 WEEKS AGO

Hi,

Please, can you share your project.

My email is Mdjishan9700@gmail.com

SHEHRYAR KHAN   POST AUTHOR

↩ **REPLY**

3 WEEKS AGO

Done.

FEDOR

↩ **REPLY**

4 WEEKS AGO

Thanks for the code...

FEDOR

↩ **REPLY**

4 WEEKS AGO

Can you share the project with me, my email is dilinwea@gmail.com, i really apreciated your work. cheers.

SHEHRYAR KHAN   POST AUTHOR

↩ **REPLY**

4 WEEKS AGO

Done.

ADAM

↩ **REPLY**

4 WEEKS AGO

can you share the solution to me? fakrullahadam@gmail.com . thank you so much

SHEHRYAR KHAN   POST AUTHOR

↩ **REPLY**

4 WEEKS AGO

Shared.

ASIF

↰ **REPLY**

1 MONTH AGO

Hi,

Please, can you share your project.

My email is asifalip@gmail.com

SHEHRYAR KHAN   POST AUTHOR

↰ **REPLY**

1 MONTH AGO

Shared.

HR

↰ **REPLY**

1 MONTH AGO

If i give you money, will you make my schoolproject due friday?

SHEHRYAR KHAN   POST AUTHOR

↰ **REPLY**

1 MONTH AGO

Sorry bro, these are Eid Holidays.

TUANTRINITRI

↰ **REPLY**

1 MONTH AGO

do you have a complete project for this on github? can i get a copy byy email

possibly if not? quoctuanit.282@gmail.com

SHEHRYAR KHAN POST AUTHOR

REPLY

1 MONTH AGO

I have Emailed you. Sorry for the Late due to Eid holidays.

SHEHRYAR KHAN POST AUTHOR

REPLY

1 MONTH AGO

I have shared Code with all of you Guys. I'll share on GitHub soon.

VLAD

REPLY

1 MONTH AGO

Thank you!

VLAD

REPLY

1 MONTH AGO

Hello and thank you for this nice tutorial. I would also like to get the code for the project.

EDUARD ARANDA

REPLY

1 MONTH AGO

Excellent Work! Can you please share the full proj? Thanks! allan01aranda@gmail.com

REZA

1 MONTH AGO

REPLY

Can you Send me the whole project please?

RK BIGGEST FAN

1 MONTH AGO

REPLY

Can I get full code?

HASSAL

1 MONTH AGO

REPLY

Where is the complete project code? Is it avaliable online?

SHEHRYAR KHAN   POST AUTHOR

1 MONTH AGO

REPLY

I have emailed you the complete project at Hsalleh@hotmail.com

MAHDU BUSIPALLI

1 MONTH AGO

REPLY

Hi Shehryar,
Can you share github link or send to my mail id madhuinst@gmail.com. crud

operation with adminlte.

Thanks in advance...

SHEHRYAR KHAN   **POST AUTHOR**

↰ **REPLY**

1 MONTH AGO

Sent.

CHARLIE

↰ **REPLY**

1 MONTH AGO

Thank you for the tutorial

Do you have the complete project?

Thanks in advance

SHEHRYAR KHAN   **POST AUTHOR**

↰ **REPLY**

1 MONTH AGO

I have Emailed you at charliemoreno@outlook.com

IRFAN

↰ **REPLY**

2 MONTHS AGO

do you have a complete project for this on github ? please help me, i need it.

SHEHRYAR KHAN   **POST AUTHOR**

REPLY

2 MONTHS AGO

It's not available on GitHub. I have Emailed you complete project.

JEFISUN

REPLY

2 MONTHS AGO

Hi,

got jquery uncaught error.
Can you share the github link to the project.

Many thanks
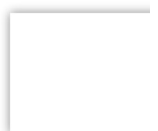
SHEHRYAR KHAN   **POST AUTHOR**

REPLY

2 MONTHS AGO

I have Emailed you. Email me back If you still find any problem.

BELL

REPLY

2 MONTHS AGO

hello, excellent tutorial, but I see that it never implements the part of Models and this confuses me, since I am a beginner in this. Can you help me please. This is my email (b.estrella@unas.edu.pe), I would really appreciate it if you send me the complete project.

SHEHRYAR KHAN   POST AUTHOR   ↰ **REPLY**

2 MONTHS AGO

Hi, here's the Article on Creating Models. https://codinginfinite.com
/entity-framework-core-database-first-net-core-scaffold-mysql-db/
& I have also Emailed you complete project.

MONIKA   ↰ **REPLY**

2 MONTHS AGO

How do I put search and paging in grid using Bower?

PEDRO   ↰ **REPLY**

4 MONTHS AGO

Hi, very good post you have here! i have an issue that you might help. The ajax call
for the delete works, but the datatable is not refreshed the first time. I need to
refresh the full page again to see the id getting removed. Instead of using direct db
inserts i am using tasks and async calls to rest api. Any ideas on how to solve this?
Does your example remove the row straight away? Thanks.

RYAN BLOEZ

REPLY

4 MONTHS AGO

Thanks for tutorial,

would you share this project? or github repo maybe..

thanks

ryandunksfamz@gmail.com

PRAJWAL

REPLY

5 MONTHS AGO

Hi, Can you share this project on mail? Please, my mail id :

my.netcorecode@gmail.com

ENRIQUE

REPLY

5 MONTHS AGO

Hi, great article, thanks for sharing.

Please, can you share your project.

My email is enrique.tito@gmail.com

DIGITALMEDIA

REPLY

5 MONTHS AGO

do you have a complete project for this on github? can i get a copy byy email

possibly if not? lri__inc@yahoo.com

SHEHRYAR KHAN   POST AUTHOR

5 MONTHS AGO

REPLY

Shared on Email.

MICHAEL CHOI

6 MONTHS AGO

REPLY

is there any way to crud operator in single page?
if you know pls either tell me how or give me source code..

im suffering atm..

MICHAEL CHOI

6 MONTHS AGO

REPLY

joinc3425@gmail.com
is my email btw

SHEHRYAR KHAN   POST AUTHOR

5 MONTHS AGO

REPLY

Shared on Email.

HARRIS

6 MONTHS AGO

REPLY

Could u help me why the javascript cannot work properly:

Uncaught ReferenceError: jQuery is not defined

at jquery.dataTables.min.js:5

at jquery.dataTables.min.js:5

(anonymous) @ jquery.dataTables.min.js:5

(anonymous) @ jquery.dataTables.min.js:5

dataTables.bootstrap.min.js:5 Uncaught ReferenceError: jQuery is not defined

at dataTables.bootstrap.min.js:5

at dataTables.bootstrap.min.js:5

(anonymous) @ dataTables.bootstrap.min.js:5

(anonymous) @ dataTables.bootstrap.min.js:5

CategoryMovie:306 Uncaught ReferenceError: $ is not defined

at CategoryMovie:306

SHEHRYAR KHAN   POST AUTHOR   ↩ **REPLY**

6 MONTHS AGO

include jQuery before Datatables js files if you are getting this error. The best place to Add jQuery is at the top of layout page.

KEVIN KOUKETSU   ↩ **REPLY**

7 MONTHS AGO

Don't make sense you insert script inside Index.cshtml on Doctors view. At this moment, jQuery it's not already loaded. It's on the middle of HTML code.

SHEHRYAR KHAN   POST AUTHOR   ↩ **REPLY**

7 MONTHS AGO

jQuery is added at the top of Layout page & Layout page loads first then render the body inside. That's why It's working fine, you can download the source from GitHub & test.

KRISHNA MOHAN   ↩ **REPLY**

5 MONTHS AGO

can u share github link or send to my mail id krishna.pvkm@gmail.com. crud operation with adminlte

SHEHRYAR KHAN   POST AUTHOR   ↩ **REPLY**

5 MONTHS AGO

Project Shared on Email.

KRISHNA MOHAN   ↩ **REPLY**

5 MONTHS AGO

thanks for sharing the application, can u share me that database also ???

MORRIS SMITH   ↩ **REPLY**

7 MONTHS AGO

Update doctor and delete doctor do not work properly

SHEHRYAR KHAN   POST AUTHOR

7 MONTHS AGO

Can you share the Screenshot of the Error at shehryarkn@gmail.com

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

Type and hit enter...   🔍

𝗳   **1.6K Facebook**   🐦 **Twitter**

▶ **YouTube**   📷 **Instagram**

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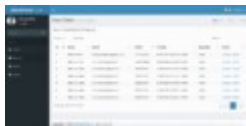Choose Technology *

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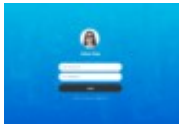
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