

Notes 2021 Install Quick Start

Feb. 12. 2020

Dale Sinder

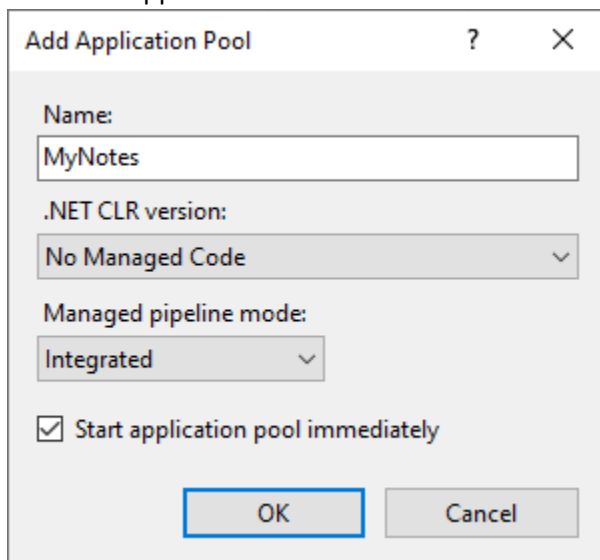
The following describes how to quickly install Notes 2021 Blazor Edition.

What you will need:

1. A computer running Windows 10 Pro or Windows Server with IIS installed.
2. IIS configured to run Core 3.1 apps. See: <https://docs.microsoft.com/en-us/aspnet/core/host-and-deploy/iis/?view=aspnetcore-3.1>
3. Some version of SQL Server. (Express, Developers Edition or some paid version)
<https://www.microsoft.com/en-us/sql-server/sql-server-downloads>
4. SQL Server Management Studio: <https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver15>
5. The Published.zip file:
<https://github.com/drsinder/Notes2021Blazor/blob/master/Published.zip>

Steps:

1. Unzip Published.zip
2. Create a folder to hold your Web App. I like to use a subfolder at C:\WebApps. I will use C:\WebApps\MyNotes for this example but you can use any suitable place.
3. Copy the contents of the unzipped Published.zip to the sub folder you created in step 2 (C:\WebApps\MyNotes).
4. Find the Sample-appsettings.json. Rename it to appsettings.json. We will edit this file later.
5. Open IIS Manager: On Windows 10 Pro: Computer Management -> Services and Applications -> IIS Manager.
6. Go to the Application Pools folder and create a new Application Pool named MyNotes:



The screenshot shows the 'Add Application Pool' dialog box. The 'Name' field is set to 'MyNotes'. The '.NET CLR version' dropdown is set to 'No Managed Code'. The 'Managed pipeline mode' dropdown is set to 'Integrated'. The 'Start application pool immediately' checkbox is checked. The 'OK' button is highlighted with a blue border.

7. Open SQL Server Management Studio and create a new Database named MyNotes:

New Database

Select a page

- General
- Options
- Filegroups

Script Help

Database name: MyNotes

Owner: <default>

☒ Use full-text indexing

Database files:

Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth / Maxsize	
MyNotes	ROWS...	PRIMARY	8	By 64 MB, Unlimited	...
MyNotes_log	LOG	Not Applicable	8	By 64 MB, Unlimited	...

Server: CHUMLEY

Connection: CHUMLEY\sinde

[View connection properties](#)

Progress

Ready

Add Remove

OK Cancel

8. In SQL Server Management Studio create a new database login and give it access to MyNotes. The Login name must match the App Pool you created above "IIS APPPOOL\MyNotes":

Login - New

Select a page

- General
- Server Roles
- User Mapping
- Securables
- Status

Script Help

Login name: IIS APPPOOL\MyNotes Search...

☒ Windows authentication
☐ SQL Server authentication

Password:
Confirm password:
☐ Specify old password
Old password:

☒ Enforce password policy
☒ Enforce password expiration
☒ User must change password at next login

☐ Mapped to certificate
☐ Mapped to asymmetric key
☐ Map to Credential Add

Mapped Credentials

Credential	Provider
------------	----------

Remove

Default database: MyNotes
Default language: <default>

Progress

Ready

OK Cancel

9. Give it access to the new Database as shown here:

Login - New

Select a page

- General
- Server Roles
- User Mapping
- Securables
- Status

Script Help

Users mapped to this login:

Map	Database	User	Default Schema
<input type="checkbox"/>	Core3a		
<input type="checkbox"/>	IdentityTest		
<input type="checkbox"/>	master		
<input type="checkbox"/>	model		
<input type="checkbox"/>	msdb		
<input checked="" type="checkbox"/>	MyNotes	IIS APPPOOL\MyNotes	
<input type="checkbox"/>	MyNotes1		
<input type="checkbox"/>	Notes2017db		
<input type="checkbox"/>	Notes2017Filesdb		
<input type="checkbox"/>	Notes2020		
<input type="checkbox"/>	Notes2020_a		
<input type="checkbox"/>	Notes2020a		

☐ Guest account enabled for: MyNotes

Database role membership for: MyNotes

- ☐ db_accessadmin
- ☐ db_backupoperator
- ☒ db_datareader
- ☒ db_datawriter
- ☐ db_ddladmin
- ☐ db_denydatareader
- ☐ db_denydatawriter
- ☒ db_owner
- ☐ db_securityadmin
- ☒ public

Connection

Server: CHUMLEY

Connection: CHUMLEY\sind

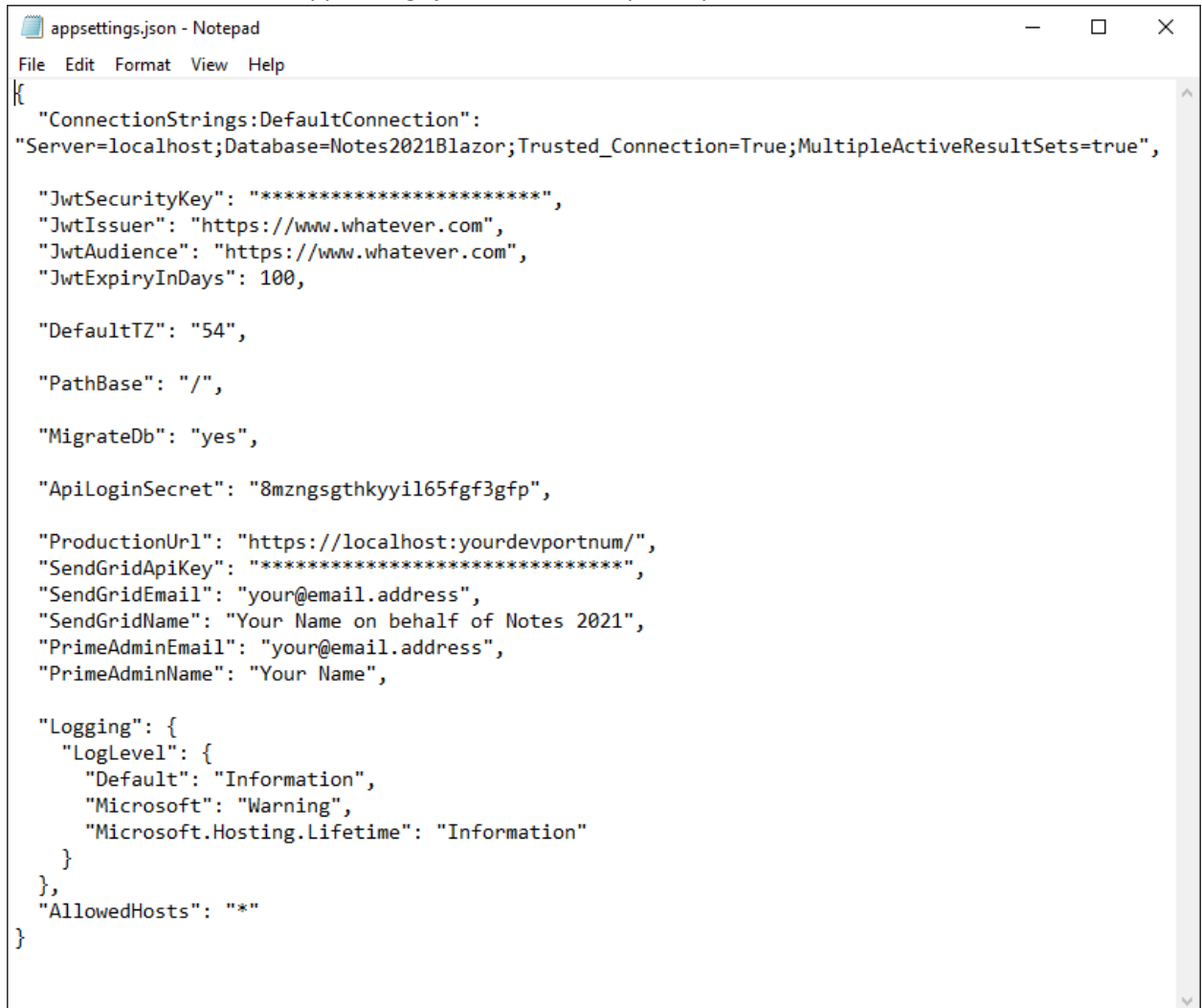
[View connection properties](#)

Progress

Ready

OK Cancel

10. Now we need to edit the appsettings.json file from step 4. Open it in a text editor:



```
appsettings.json - Notepad
File Edit Format View Help
{
  "ConnectionStrings:DefaultConnection":
  "Server=localhost;Database=Notes2021Blazor;Trusted_Connection=True;MultipleActiveResultSets=true",

  "JwtSecurityKey": "*****",
  "JwtIssuer": "https://www.whatever.com",
  "JwtAudience": "https://www.whatever.com",
  "JwtExpiryInDays": 100,

  "DefaultTZ": "54",

  "PathBase": "/",

  "MigrateDb": "yes",

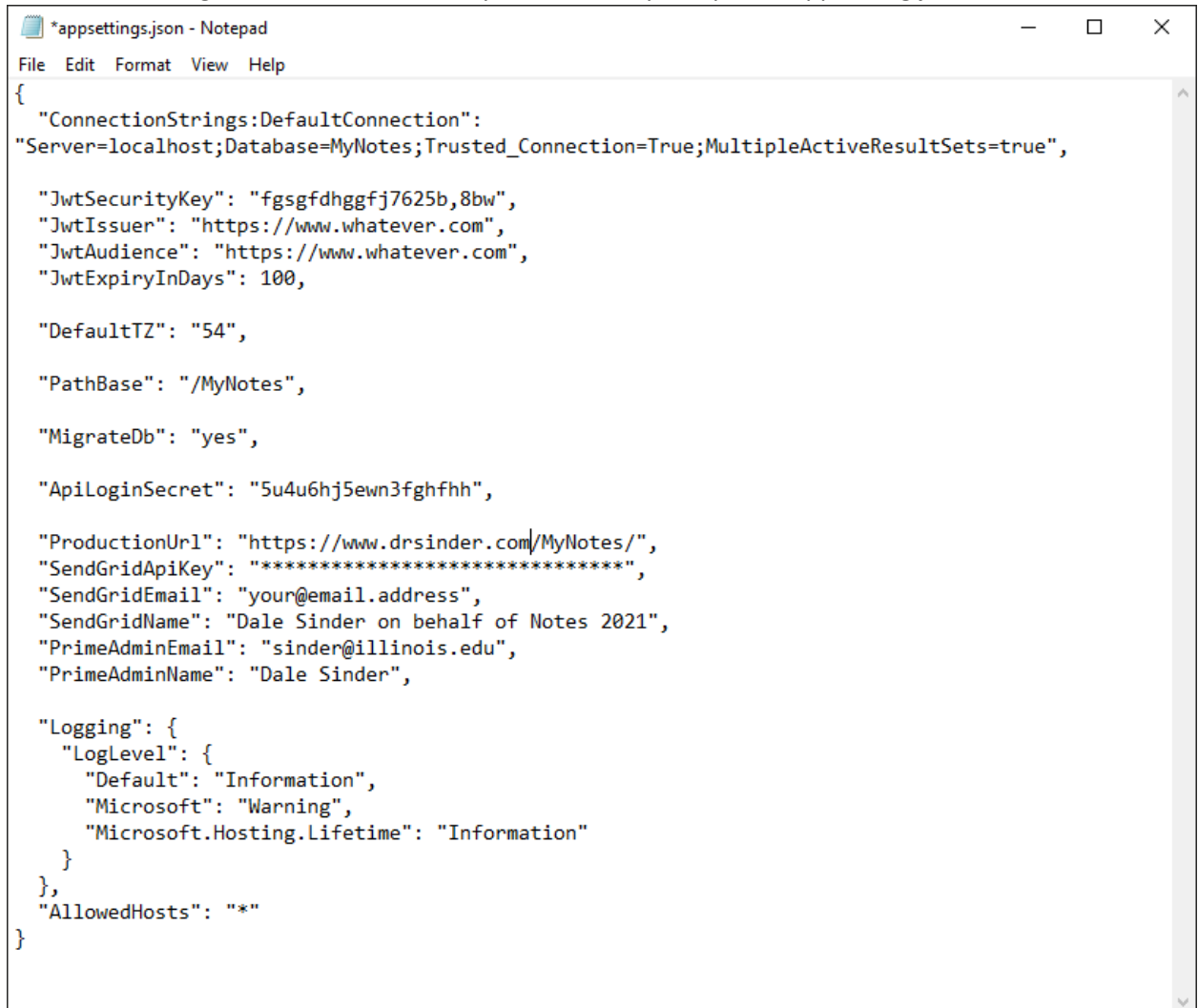
  "ApiLoginSecret": "8mznsgthkyyil65fgf3gfp",

  "ProductionUrl": "https://localhost:yourdevportnum/",
  "SendGridApiKey": "*****",
  "SendGridEmail": "your@email.address",
  "SendGridName": "Your Name on behalf of Notes 2021",
  "PrimeAdminEmail": "your@email.address",
  "PrimeAdminName": "Your Name",

  "Logging": {
    "LogLevel": {
      "Default": "Information",
      "Microsoft": "Warning",
      "Microsoft.Hosting.Lifetime": "Information"
    }
  },
  "AllowedHosts": "*"
}
```

11. Change "ConnectionStrings:DefaultConnection":
"Server=localhost;Database=Notes2021Blazor;Trusted_Connection=True;MultipleActiveResultSets=true", to: "ConnectionStrings:DefaultConnection":
"Server=localhost;Database=MyNotes;Trusted_Connection=True;MultipleActiveResultSets=true", substituting the name of your Database: MyNotes
12. Change JwtSecurityKey from ***** to some long random string for security.
13. Change "PathBase": "/", to "PathBase": "/MyNotes",. This must match where we deploy the web app on your site! It must NOT end with a "/".
14. Change "ApiLoginSecret": to be some random string, say: "ApiLoginSecret":
"5u4u6hj5ewn3fghfh",
15. Change "ProductionUrl": to match where you are deploying your app. I used: "ProductionUrl":
"https://www.drslider.com/MyNotes/", It MUST end with a "/".
16. Change "PrimeAdminEmail": "your@email.address", to use the email you will login with. This login will become the app admin.
17. Change "Your Name" in two locations as appropriate.

18. We will not configure the SendGrid items yet. Here is my completed appsetting.json.



```
{
  "ConnectionString:DefaultConnection":
    "Server=localhost;Database=MyNotes;Trusted_Connection=True;MultipleActiveResultSets=true",

  "JwtSecurityKey": "fgsgfdhggfj7625b,8bw",
  "JwtIssuer": "https://www.whatever.com",
  "JwtAudience": "https://www.whatever.com",
  "JwtExpiryInDays": 100,

  "DefaultTZ": "54",

  "PathBase": "/MyNotes",

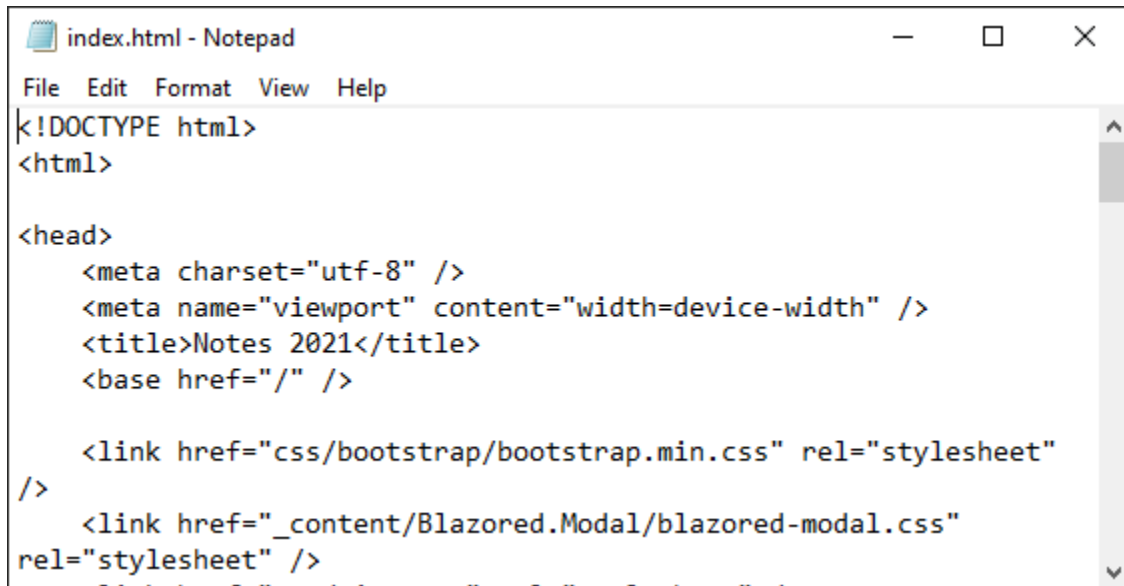
  "MigrateDb": "yes",

  "ApiLoginSecret": "5u4u6hj5ewn3fghfh",

  "ProductionUrl": "https://www.drsinder.com/MyNotes/",
  "SendGridApiKey": "*****",
  "SendGridEmail": "your@email.address",
  "SendGridName": "Dale Sinder on behalf of Notes 2021",
  "PrimeAdminEmail": "sinder@illinois.edu",
  "PrimeAdminName": "Dale Sinder",

  "Logging": {
    "LogLevel": {
      "Default": "Information",
      "Microsoft": "Warning",
      "Microsoft.Hosting.Lifetime": "Information"
    }
  },
  "AllowedHosts": "*"
}
```

19. In your sub folder MyNotes\Notes2021Blazor.Client\dist, find the index.html file and open it in a text editor:

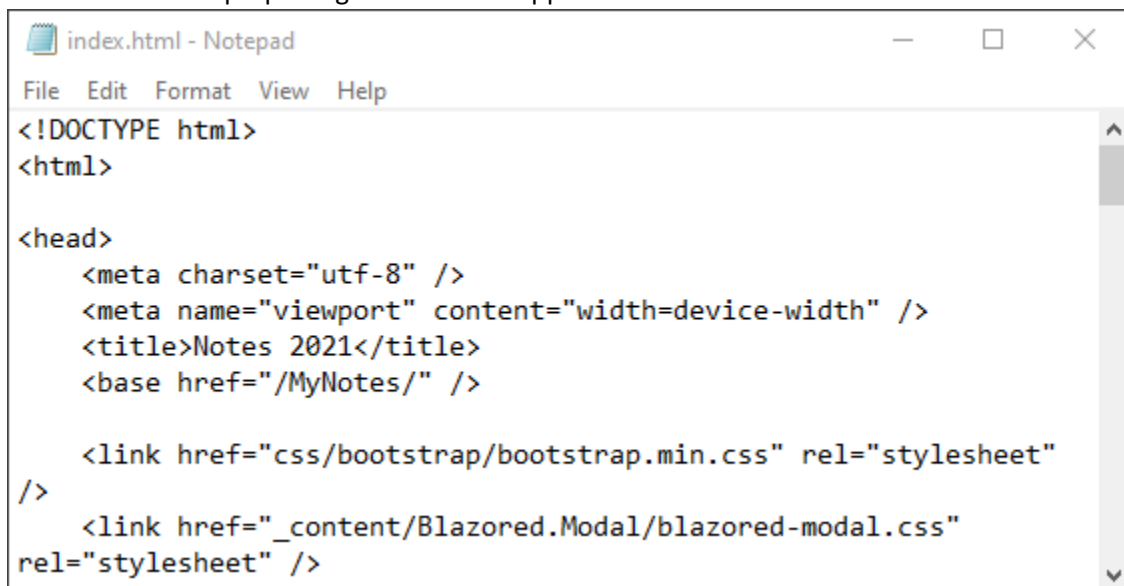


```
index.html - Notepad
File Edit Format View Help
<!DOCTYPE html>
<html>

<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width" />
  <title>Notes 2021</title>
  <base href="/" />

  <link href="css/bootstrap/bootstrap.min.css" rel="stylesheet"
/>
  <link href="_content/Blazored.Modal/blazored-modal.css"
rel="stylesheet" />
```

20. Change the `<base href="/" />` line to: `<base href="/MyNotes/" />`. Failure to do this will result in the most perplexing failure of the app!!



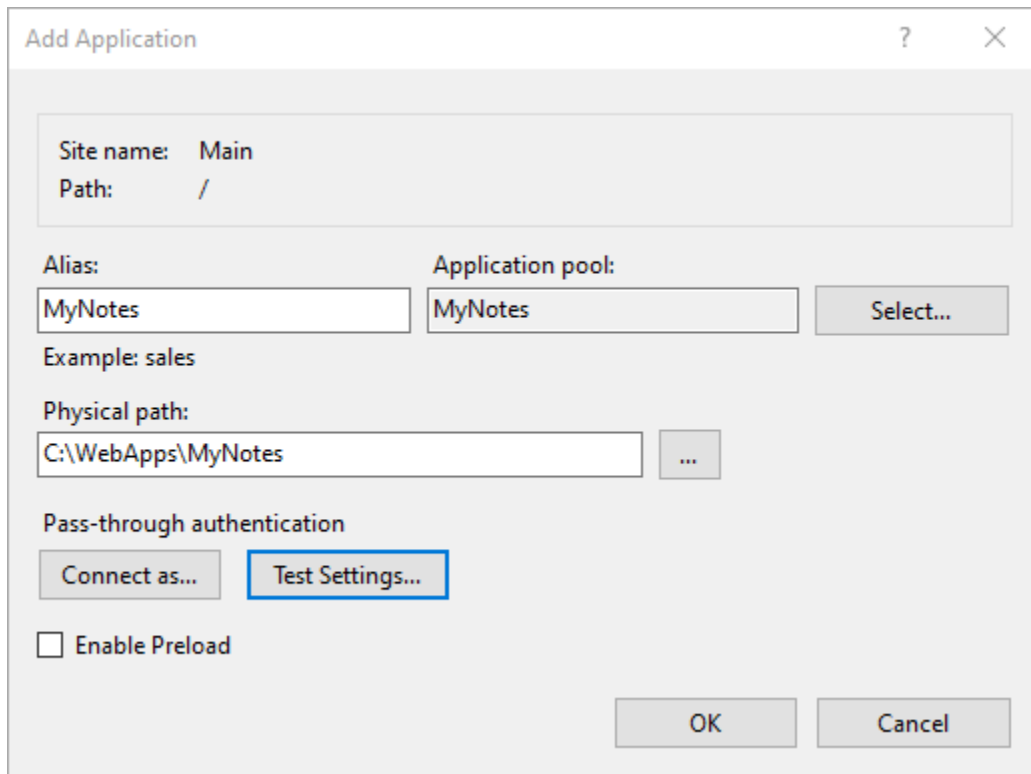
```
index.html - Notepad
File Edit Format View Help
<!DOCTYPE html>
<html>

<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width" />
  <title>Notes 2021</title>
  <base href="/MyNotes/" />

  <link href="css/bootstrap/bootstrap.min.css" rel="stylesheet"
/>
  <link href="_content/Blazored.Modal/blazored-modal.css"
rel="stylesheet" />
```

21. Finally, it's time to create your web application! Return to the IIS Manager (step 5). Now open "Sites" and select the site you will use and right click on it and Select "add Application". Set up

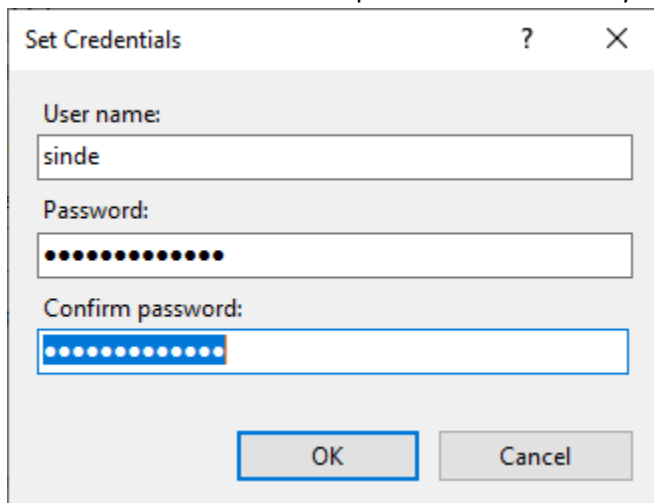
as shown:



The 'Add Application' dialog box is shown with the following fields and controls:

- Site name:** Main
- Path:** /
- Alias:** MyNotes
- Application pool:** MyNotes, with a **Select...** button to the right.
- Example:** sales
- Physical path:** C:\WebApps\MyNotes, with a browse button (**...**) to the right.
- Pass-through authentication:** A section containing two buttons: **Connect as...** and **Test Settings...**. The **Test Settings...** button is highlighted with a blue border.
- Enable Preload:** An unchecked checkbox.
- Buttons:** **OK** and **Cancel** buttons at the bottom right.

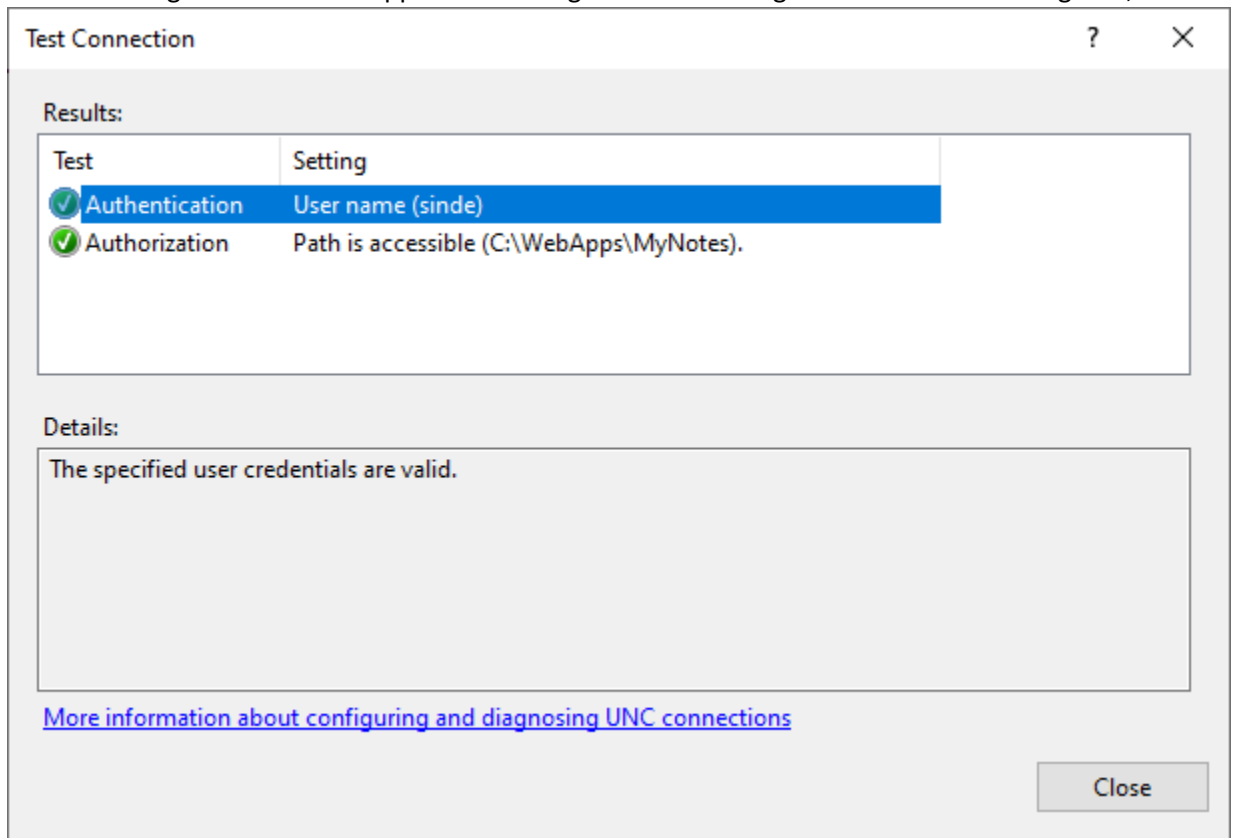
22. Click on Connect as... Select Specific user and enter your login info. Use your login info!



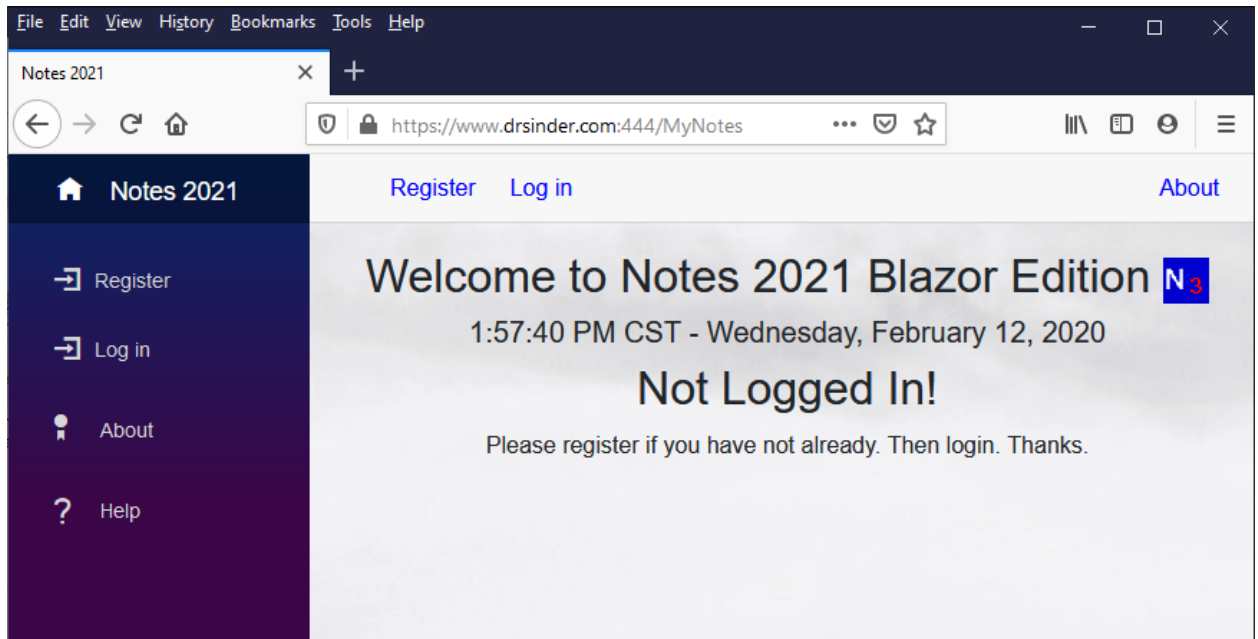
The 'Set Credentials' dialog box is shown with the following fields and controls:

- User name:** sinde
- Password:** A field filled with 12 black dots.
- Confirm password:** A field filled with 12 black dots, highlighted with a blue border.
- Buttons:** **OK** and **Cancel** buttons at the bottom.

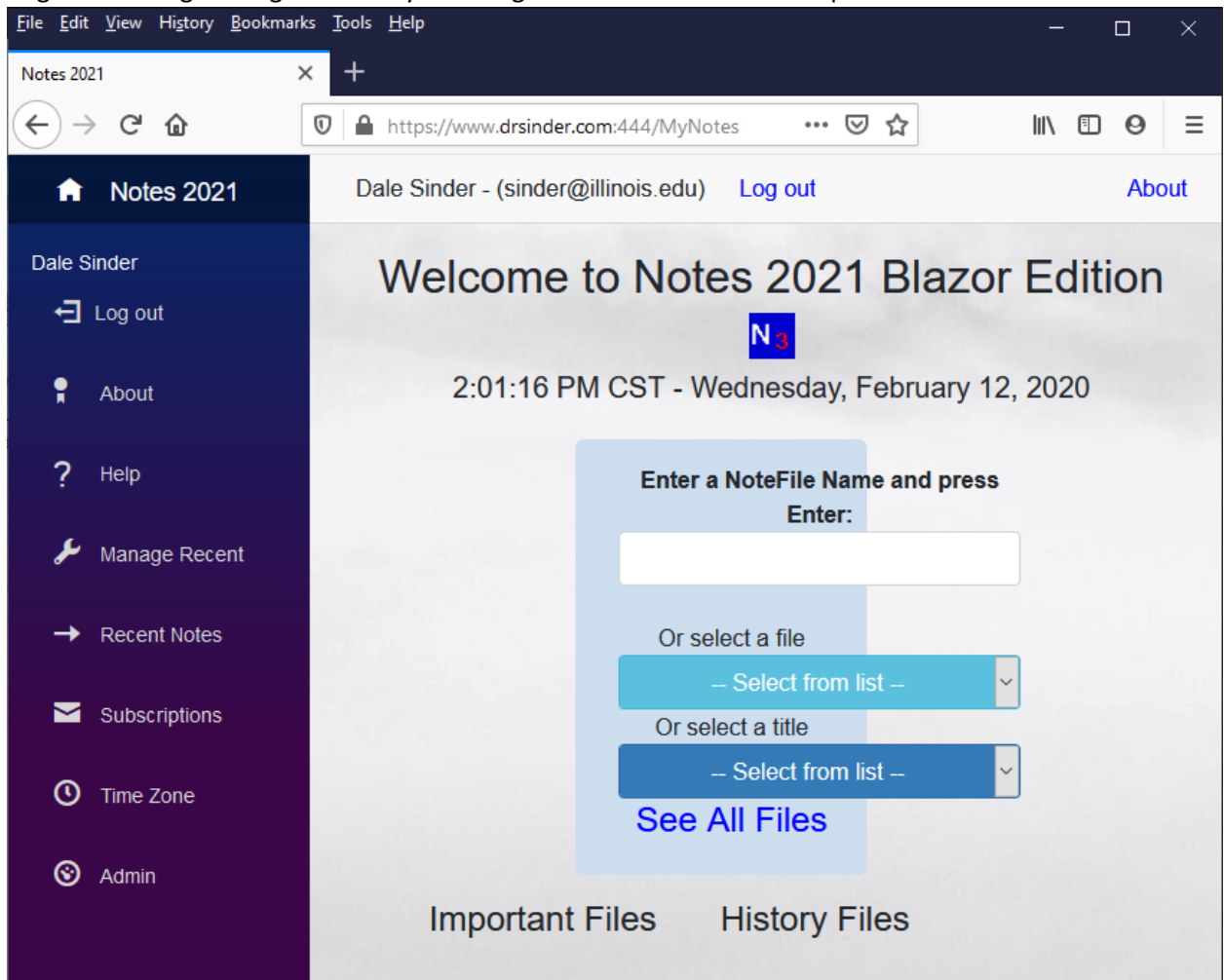
23. Before clicking OK on the Add Application dialog click Test Settings. Both items must be green;



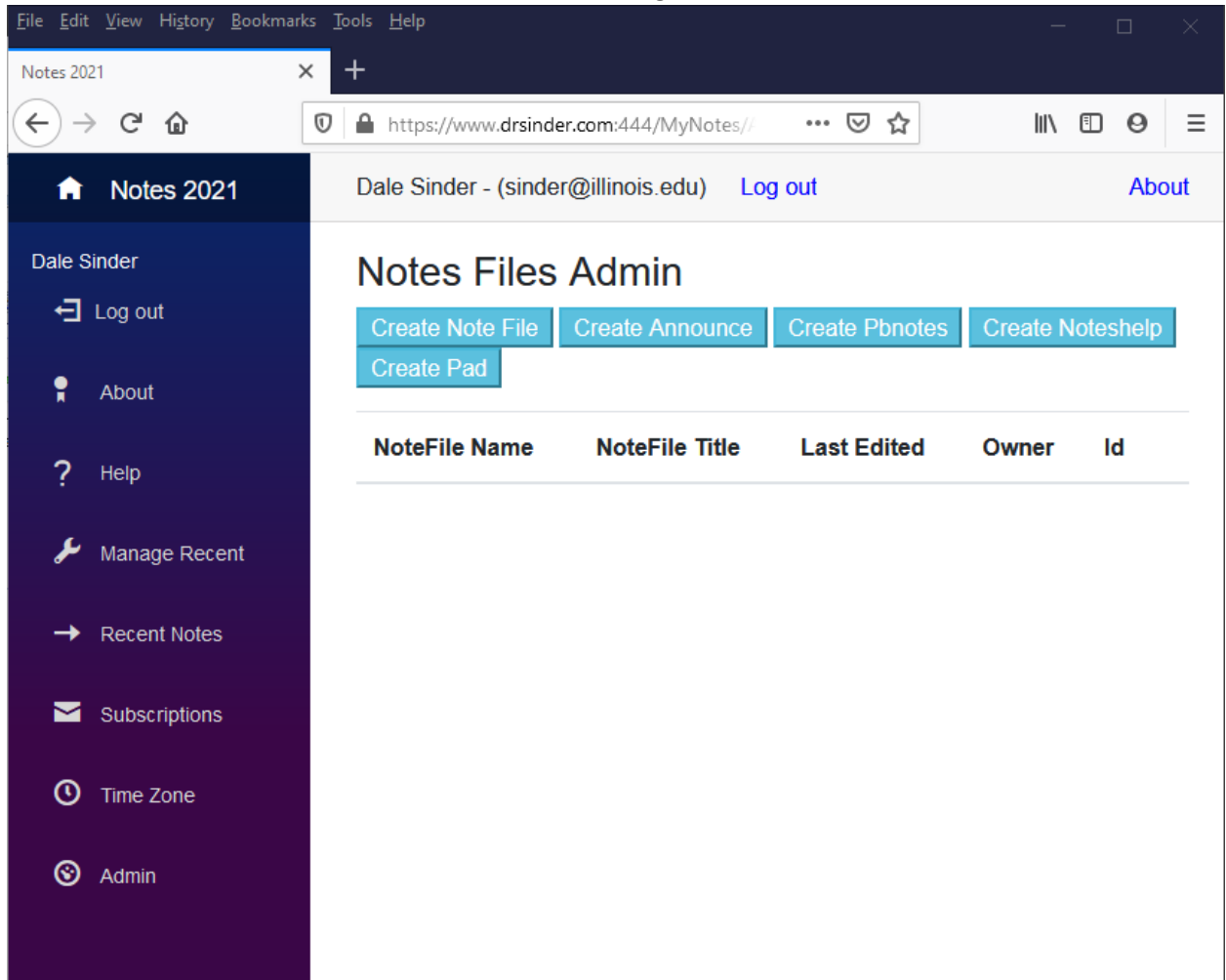
24. Now browse your application. Be patient. The app has to create database tables and populate one table. You should then see:



25. Register and login using the email you configured to be an admin in step 16.



26. Almost done! Click on Admin and Select NoteFile Manager:



27. Click the buttons to create Announce, Pbnote, NotesHelp, and Pad. Return Home and you will see some files have been added. You can now enter content. Success!

FileEditViewHistoryBookmarksToolsHelp

Notes 2021

https://www.drspartner.com:444/MyNotes/notes/main/1

Notes 2021

Dale Sinder - (sinder@illinois.edu)Log out

Note Editor - announce - Notes 2021 Announcements

Subject

Welcome

Tags

Director Message

Note Body

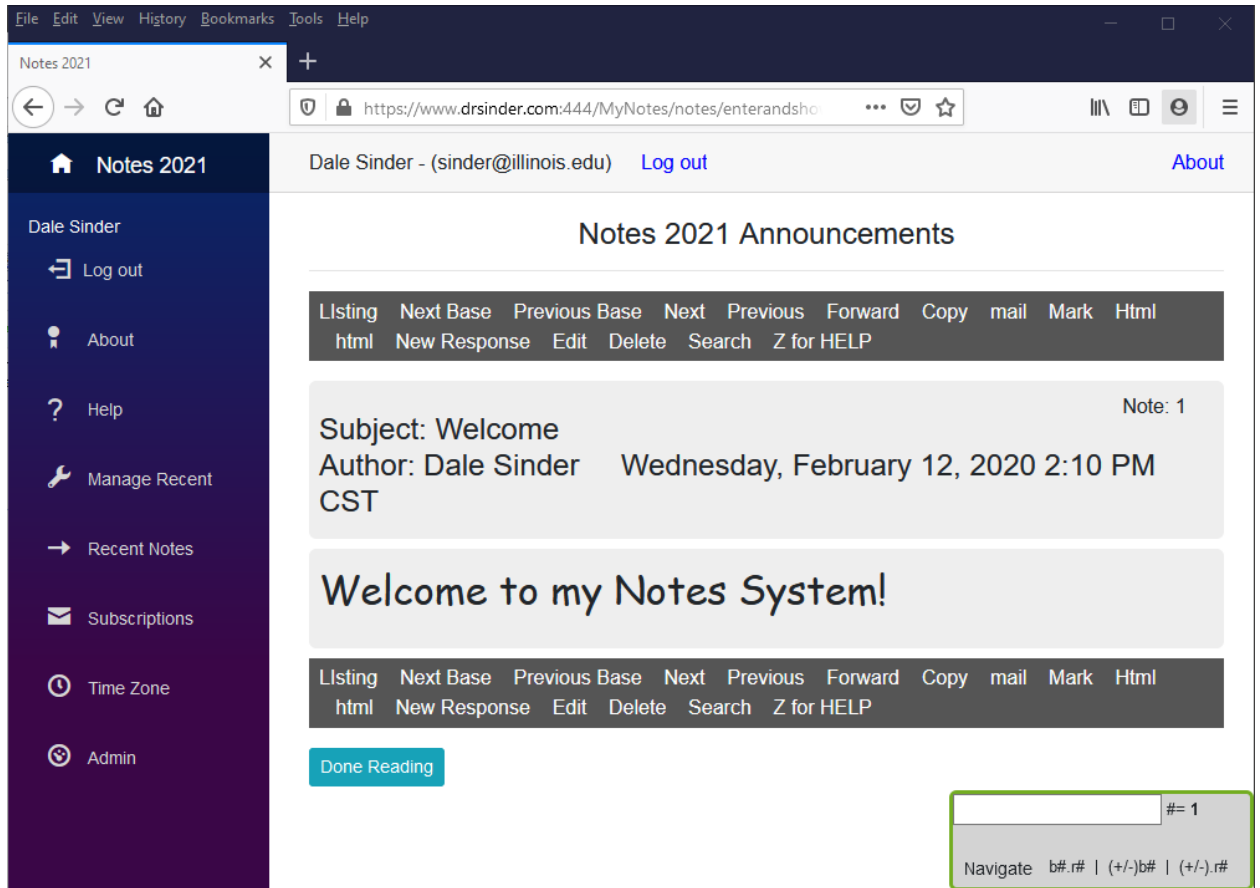
FileEditViewInsertFormatToolsTable

FormatsComic Sans...24ptBILU

Welcome to my Notes System!

P > SPAN5 WORDS POWERED BY TINYMCE

SubmitCancel



Enjoy!

To use the email capability go to <https://signup.sendgrid.com/> and sign up for a free or paid account. Then just fill in the SendGridApiKey in the appsetting.json.