**Where we are:**

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| --- | --- |
| Intro to MVC | Navigation, Searching and Filtering |
| Controllers and Views | Forms and Tag Helpers |
| Unit Testing, Publishing to Azure | Annotation and validation |
| Dependency Injection, Models | Authentication |
| Entity Framework and Scaffolding | Authorization |

Intro

How is everyone doing on lab 5?

* Able to run Add-Migration Initial, Update-Database?
* SeedData showing up in the database?
* Info from the Database showing up in a view?

This week’s topics:  
Chapter 9 covers too many advanced topics without covering the basic topics first!  
We should look at Ch. 21, Views  
From Ch. 9:

* Searching and filtering (essentially the same thing)
* Navigation menu
* ~~Publishing an app with a database to Azure~~
* We won’t talk about pagination

This week’s lab:

* Filter messages by topic
* Search for messages by key words
* Publish to Azure and re-create the database
* Add a navigation menu (for pages, not categories)
* Pagination not required

More on Migrations

Add a new field to a model, run:  
Add-Migration *NewName*  
Update-Database

You can delete the database from Server Explorer, Ch. 10, pg. 282, 283

RESETTING THE DATABASE

When you are making frequent changes to the model, there will come a point when your migrations

and your database schema get out of sync. The easiest thing to do is delete the database and start over.

However, this applies only during development, of course, because you will lose any data you have stored.

Select the SQL Server Object Explorer item from the Visual Studio View menu and click the Add Sql

Server button. Enter (localdb)\mssqllocaldb into the Server Name field and click the Connect button. A new item will appear in the SQL Server Object Explorer window, which you can expand to see the

LocalDB databases that have been created. Right-click the database you want to remove and select

Delete from the pop-up menu. Check the option to close the existing connections and then click the OK

button to delete the database.

Once the database has been removed, run the following command from the Package Manager Console

to create the database and apply the migrations you have created by running the following command:

Update-Database

This will reset the database so that it accurately reflects your model and allow you to return to

developing your application.

* Work-around if the Package Manager Console isn’t letting you run EF commands. Run them from the command prompt in the Windows Console:
  + dotnet ef migrations add Initial
  + dotnet ef database update

Filtering, page 236

* Products = repository.Products  
  Where(p => category == null || p.Category == category)  
  OrderBy(p => p.ProductID)
* Unit testing the filter
* Ch. 19 – Filters

Views, Ch. 21

Page 669, Adding Dynamic Content to a Razor View

~~View Components, Ch. 22~~

~~Navigation menu, page 243~~

~~Unit testing the menu~~

~~Deployment, Ch. 12, pg. 337~~