

08:46:29 PDT

Question: The book I have is //Step by Step Microsoft Visual C#2013 by John Sharp. Will I be able to follow along using this book, or should I just put it back on the shelf for now? Thank you.

Answer: That is a great book! But we're going to be focused on MVC rather than C# today.

08:48:27 PDT

Question: Can I download the sample code and projects covered during the course and repeat them at my leisure?

Answer: Stay tuned for a link. 😊

08:49:27 PDT

Question: will this session be recorded and available on MVA?

Answer: @Robert: Yes it will be. These sessions typically go up on the MVA site approximately two weeks after the live session.

08:52:55 PDT

Question: Can anyone answer my queries?

Answer: @CODER: Believe it or not, the easiest way to see how they do the effects is to view the source for the pages. As for connecting the CSS and JS code to the HTML, you have to use the appropriate links in your HTML. Research the <src> and the <link> tags such as <link rel="stylesheet" href="/html_5/tags/html_link_tag_example.css"> to link CSS.

08:59:36 PDT

Question: src is an attribute, not a tag. To "connect" CSS and JS to an HTML file, you want to use the <link> and <script> tags respectively.

Answer: @Carissa: Correct

09:11:26 PDT

Question: Good Morning =) , is this really live ?no recorded?...

Answer: It is live but also being recorded. It will be available online in about two weeks from today

09:13:08 PDT

Question: i guess so its a live stream

Answer: What's happening now is happening now. 😊

09:13:30 PDT

Question: Are they using new Surface 4 prototypes with mammoth screen technology? I'd come home with a tan everyday if I had a monitor that big.

Answer: Not quite. 😊 But it is nice to have for presenting.

09:15:31 PDT

Question: Will there be talking about Ninject, Dependency Injections and couplings?

Answer: We'll address it, but unfortunately a full explanation is a bit beyond the scope of today.

09:15:41 PDT

Question: So when do we get to take a spaghetti break?

Answer: In a couple hours. 😊

09:17:08 PDT

Question: Will the voucher code be posted here or emailed to us?

Answer: Posted here and on the break slides.



09:17:15 PDT

Question: Hi- Is there another link that I can use to watch the session? current link doesn't work for me for an unknown reason!

Answer: Have you tried using the standard quality version instead of the high quality?

09:17:19 PDT

Question: red or white sauce today

Answer: I'm in the mood for a red sauce.

09:18:12 PDT

Question: Is controller equal to viewmodel in mvvm pattern?

Answer: Not quite. The controller would use the View Model

09:18:55 PDT

Question: I know everything today will be in C#. However, does MVC work with VB.net as well?

Answer: Yes, The MVC framework works fine with VB.NET.

09:19:04 PDT

Question: what is the purpose of voucher code

Answer: Get points on MVA

09:19:26 PDT

Question: Thank you for doing this, Microsoft Virtual Academy is the best way for me to learn new tech.

Answer: You are very welcome! Glad you're enjoying it!!

09:21:52 PDT

Question: i am new to MVA. What do we do with points on MVA?

Answer: Bragging rights.

09:21:58 PDT

Question: Will resharper work for vs2013?

Answer: Yes, ReSharper does work with VS2013

09:22:04 PDT

Question: Can/should models contain any business logic?

Answer: That's a big question. The answer is it depends. We'll talk a bit about that later.

09:23:06 PDT

Question: Is model is replica of database table??

Answer: It doesn't always have to be a database table replica but in simple cases it can be

09:23:27 PDT

Question: Is the model where you would create your connection to the database? If not where is it created then?

Answer: @EssCee No, not quite. The model *is* your data. The model represents data of some kind, it's often from a database, but can be composed from multiple sources. You would usually use a helper class to fetch the data for you and populate the model, making it easier to reuse. EntityFramework is the current recommended strategy for connecting to a DB.

09:23:32 PDT

Question: @Jyoti - They should allow us to redeem the points for things... like spaghetti! or even garlic bread

Answer: Mmmmmm.... garlic bread

09:24:16 PDT

Question: will we use EF on this ?

Answer: We will



09:24:22 PDT

Question: Is best practice to use Repository and Service layers?

Answer: Generally, yes

09:25:18 PDT

Question: will you use code first ef?

Answer: We will

09:25:29 PDT

Question: What is the difference between HTML, CSS and ASP.Net or is it the same thing?

Answer: HTML is "Hyper-text markup", used as the language to describe a document and to render content in a browser. ASP.Net is the .Net replacement of "Active Server Pages". CSS is "Cascading Style Sheets", used to describe the styling to be used for classes and elements in your HTML document.

09:25:37 PDT

Question: Are these slides available somewhere?

Answer: They will be available on the MVA site after the recording.

09:25:42 PDT

Question: This is my first event... can't seem to find the area in the link provided to enter the voucher code. Can you please direct me?

Answer: Go to your dashboard on MVA, there is a tab there for Redeem Voucher

09:25:49 PDT

Question: will there be a recording be available for this session or training?

Answer: It will be available two weeks after the recoding.

09:25:57 PDT

Question: what is EF?

Answer: Entity Framework. <http://msdn.microsoft.com/en-us/data/ef.aspx>

09:26:19 PDT

Question: Will you talk about Area?

Answer: A bit beyond the scope, unfortunately. Areas are like separate sections/web apps in one.

09:26:38 PDT

Question: is there only html comes as response from server side..?

Answer: You can absolutely incorporate all the JavaScript.

09:26:43 PDT

Question: Entity Framework is ORM (Object Relation Mapping)

Answer: Correct

09:27:17 PDT

Question: Can you show the voucher code again, please?

Answer: It will be on the break slides

09:27:33 PDT

Question: was that yes for my question? any details if they might embrace AngularJS?

Answer: Visual Studio does a great job with Angular. We'll talk about that later today.

09:27:45 PDT

Question: Can you give us example of an EF?

Answer: We'll get to that in Module 3.



09:28:27 PDT

Question: Can MVC "coexist" with a WebForms/WebPages app?

Answer: Absolutely! And Visual Studio 2013 does a great job with that.

09:28:36 PDT

Question: will LINQ to SQL Data classes will be using here?

Answer: It is still available, but we won't touch on it.

09:28:44 PDT

Question: is the voucher mentioned, free of cost?

Answer: The voucher is only for MVA points. No cost to you to redeem it.

09:29:23 PDT

Question: y there is no drag and drop feature in mvc

Answer: The MVC Framework has more to deal with the server-side of application development. The drag-and-drop features a client would use is up to the developer (you!) or the client-side libraries you're using in your views.

09:30:57 PDT

Question: Does MVC really "get rid" of the page lifecycle?

Answer: It does. There is still a lifecycle, but it's very different.

09:31:08 PDT

Question: Can please explain advantages of LINQ over standard sql procedures?

Answer: We'll highlight that in Module 3.

09:32:05 PDT

Question: Hello how are you? I'm improving my English that the video is available in MVA, please lay with closed caption. Tank

Answer: Captions will be added to the recorded version

09:32:13 PDT

Question: Quick clarification Christopher: HTML, CSS and JS gets written by ASP.Net?

Answer: Web Forms does a lot of that. With MVC everything is done via code.

09:32:56 PDT

Question: can anyone send link to video training ?

Answer: What video training are you referring to?

09:33:07 PDT

Question: What is the difference of the LINQ over SQL procedures?

Answer: LINQ allows you to write queries in C#, and allows you to focus on objects.

09:33:32 PDT

Question: Will there be any discussion on the updated 70-486 exam as of April 30th? It includes questions about MVC5 and VS 2013.

Answer: @JSolomon The 486 update was more about ensuring that we did not test on old technology/ways. If you look at the Objectives, the end goal/objective has not changed much with MVC5. So you can look at some of the new features of MVC5, but if you are well versed in MVC4 you should be fine - just go through some of the what's new content. HTH

09:35:16 PDT

Question: @Christopher: LINQ is also fast in execution than SQL Queries and much more easier to code while coding in C#

Answer: Agreed! 🙄



09:35:40 PDT

Question: There is no ASP.MVC in new project in MVS Express 2013 for web? Just ASP.net?

Answer: The Express versions are based on project type. You need to go grab the Web version of VS Express.

09:36:10 PDT

Question: Can the view work for mobile applications that use xaml tags on windows phone or other xml tags for android os?

Answer: @Alfred If you are writing native applications that dynamically load their UI from a remote resource, what you are asking is possible. The Razor view engine (used by default in the MVC Framework) can be used to generate any kind of text you like.

09:36:48 PDT

Question: any ASP.NET MVC 6 framework features demo?

Answer: Unfortunately, not in this session.

09:37:22 PDT

Question: Will we see connection to remote ms sql server?

Answer: @JohanKasselman Remote or local is the same, when setting the connection string you tell an application where to connect to.

09:38:41 PDT

Question: Where can I find ASP.MVC in visual studio ultimate? thx

Answer: When you create a new project, select a new Asp.Net Web Application, then select the MVC template.

09:38:46 PDT

Question: This is a refresh of Developing ASP.NET MVC 4 Web Applications Jump Start?

Answer: No, it is a new session designed to introduce MVC

09:39:20 PDT

Question: James Chambers: Okay thanks for that.. Im VERY new to ASP / MVC..

Answer: No worries! Keep the questions coming!

09:42:07 PDT

Question: Can I use same authentication method, If I add MVC app and Web Form in a same project?

Answer: Absolutely! They're all using the exact same ASP.NET.

09:42:33 PDT

Question: kindly show as CRUD Operation if possible using Empty MVC

Answer: It is likely that this will be covered, including using scaffolding to create the CRUD views automatically.

09:43:05 PDT

Question: can you use an MVC BootstrapTemplate?

Answer: Absolutely!

09:43:19 PDT

Question: Does anybody knows how to download the slides?

Answer: Links are on the FAQ tab

09:43:36 PDT

Question: I'm using Visual Studio 2012, should I use MVC 3 or MVC 4?

Answer: Using 4 will be closer to what they are walking through today.

09:44:39 PDT

Question: Hi Jon and Christopher, what's the future of MVC, It will be obsolete or it can be integrated to Cloud environments?

Answer: Completely integrated!

09:45:27 PDT

Question: Is MVC suitable for non-database/non-webmethod sites? e.g. plain low-page-number simple sites?

Answer: Do you require application logic in your web site? If you do, there could still be a case made for MVC. If you're just doing static pages, MVC doesn't hurt and you can leverage layouts to help with consistency, but it's not required.

09:45:51 PDT

Question: Wasn't this renamed from "Windows Azure" to "Microsoft Azure" recently?

Answer: It was. Old habits die hard. 😊

09:46:19 PDT

Question: Is the ASP.Net code the same as HTML?

Answer: No, ASP.NET is a server-side technology for building applications. Applications built on ASP.NET will (typically) generate HTML that is viewed by your users.

09:47:18 PDT

Question: can unit tests be added later? after project creation?

Answer: Yes, you are free to add a unit test project to your solution at any time. You can always add a DLL project and then choose your test framework.

09:48:11 PDT

Question: Does this have a master page or none?

Answer: It has a similar tech called Layouts.

09:48:37 PDT

Question: Can you give some overview of MVVM as well?

Answer: We'll highlight that when we get into both models and controllers.

09:49:26 PDT

Question: did I misunderstand? did they just reference free/cheap hosting for developer testing?

Answer: Azure is an option for hosting, but there are many more features baked in there as well. It works for testing, but many large-scale applications or services run on Azure as the production environment.

09:51:46 PDT

Question: what is MVVM?

Answer: Model-View-ViewModel. It's another pattern that you can use to separate UI concerns...in web development it is something you would use on the client side.

09:51:50 PDT

Question: Is there any Mobile Template for MVC in VS 2013??

Answer: There isn't directly, but that is one of the main goals of Bootstrap - making it easier to create pages that work with mobile devices.

09:54:12 PDT

Question: how to set bootstrap as default project template

Answer: It's automatically done with the default template.

09:55:18 PDT

Question: mean built-in responsive functionality??

Answer: That's it!

09:55:25 PDT

Question: Will bootstrap-theming and bootstrap-modifications be covered?

Answer: We have a full module!



09:56:42 PDT

Question: Thanks @James Chambers. But I'm now a little bit confused about the MVVM and MVC. Can you further explain the differences?

Answer: MVC is both a pattern and the application framework you will use on the server to build an application. MVVM is a client-side pattern, in web dev typically something like Knockout or Angular, used for binding UI to your data.

09:57:02 PDT

Question: what does the acronym MVC mean? I thought you were going to tell us what the M, the V and the C meant? did i miss this? thanks!

Answer: Yes, it was in the earlier bits. It means "Model-View-Controller"

09:57:45 PDT

Question: Will you us how to change the bootstrap themes?

Answer: We will do that later today. We'll have a full module on Bootstrap.

09:58:01 PDT

Question: Just an FYI for the new coders. I believe that responsive design they used is in the bootstrap css. Look for @media in the css file. You will see that it dictates styles depending on the screen width. Those are called media queries.

Answer: That is correct!

09:58:19 PDT

Question: How I can do this project in visual studio 2010?

Answer: Unfortunately you'll need Visual Studio 2013

09:58:50 PDT

Question: What version of MVC are you using now?

Answer: MVC5

09:59:28 PDT

Question: How does MVC handles user roles and authorization

Answer: By using a new system called Identity, which is part of ASP.NET. We'll talk about that in Module 7.

09:59:43 PDT

Question: Are U going to finish is video on one go or different days ? I am at work now ill have to leave my office in half an hour will i able to continue ?

Answer: In one go, but it will be available online in about 2 weeks.

09:59:51 PDT

Question: okay, the voucher link just takes me to the mva home page?

Answer: @Dickie if you click on My Dashboard on the MVA sight there is a spot to redeem vouchers for points.

09:59:51 PDT

Question: That looks like I need three files for each "page" I had previously in my webforms app. Is that correct?

Answer: Well..close. You will need to have a controller, which can support multiple views, and you'll need a view for page you'll want rendered (typically, sometimes more when AJAX comes into play). You will need your template (layout) as well...so you'll need (1) layout (2) controller and then (x) for your views. But in Web Forms you'd typically have your master page, your aspx and the code-behind.

09:59:52 PDT

Question: So Chris, I can make my website exclusively from ASP.Net?

Answer: Absolutely!



10:00:25 PDT

Question: How does MVC handles user roles and authorization

Answer: MVC handles Roles and Authentication just like any other ASP.NET Web Application. WebForms and MVC use the same Role and Authentication providers

10:00:46 PDT

Question: Which version of mvc will we need to follow along?

Answer: We'll be doing MVC5

10:00:51 PDT

Question: Have a Great Burger Guys

Answer: Thanks!

10:01:06 PDT

Question: Make mine a veggieburger.

Answer: On it!

10:01:17 PDT

Question: i would like to learn briefly about asp.net identity with mvc....

Answer: There is a session later today on Authentication as a part of this course.

10:01:41 PDT

Question: I have project use WCF I use KnownType service How can I do that by MVC "Hide some controls from my form depending on selected value from dropdownlist"

Answer: @Mohamed, you're either going to use JavaScript (if the decision is made on the client site) or you'll use c# in the controller to pick the appropriate view (or partial view) to render. There are a lot of options there!

10:02:02 PDT

Question: Great Job!!!!

Answer: Thanks!!

10:02:06 PDT

Question: Which are new features in MVC 5 ?

Answer: Quite a bit. See here for more details: <http://www.asp.net/mvc/mvc5>

10:02:26 PDT

Question: I don't have that question: Host in the cloud? but this one Create remote resources? Should I activate it or not?

Answer: Creating the resources will allow you to create the database as well.

10:03:30 PDT

Question: I'd like to know how to use MVC with WebAPI

Answer: These two can live side-by-side in the same project. MVC would be used for what the *user* would want to see, whereas the consumer of Web API would typically be an application.

10:05:54 PDT

Question: Hi James, would you do a recap when you resume back in abit?

Answer: The presenters are Jon and Christopher today! There is usually a short recap at the start of each section and you will also be able to watch on demand in a couple of weeks.

10:07:48 PDT

Question: For the next module 'Developing Models'...can you show us some security on form postbacks (like overposting? or I'm not sure if posting to an intermediate 'ViewModel' model would help? (I think Scott Allen mentioned that somewhere but that confused me a bit)

Answer: We'll be talking about overposting



10:07:56 PDT

Question: How come you can register on the application without having set up a Database yet?

Answer: By convention, when you attempt to access the database it will create it for you if it doesn't exist. It's set up with Entity Framework code first and you can see/edit this code in your project. Check out the account models in the project.

10:09:04 PDT

Question: As far as I can see Web API can be used only with JavaScript? not MVC controller?

Answer: MVC controllers can interact with JavaScript, but it's usually better to use Web API for HTTP services

10:09:47 PDT

Question: as I mentioned earlier, I was wondering if it's possible to learn how guid value works in MVC since that's what I am struggling on right now??

Answer: Hi @Jessica, Guid is just a .Net type so there must be something you're looking for that is more specific. What are you trying to do with it? You can use it freely as a property on models and view models, even in EF code-first.

10:11:39 PDT

Question: Hi @Jon and @James, what does the #5 means in MVC 5?

Answer: It's the fifth version of the MVC Framework and tooling.

10:12:10 PDT

Question: will you cover database first coding in mvc with EF?

Answer: Yes, next session

10:13:39 PDT

Question: The webpage looks so much like bootstrap

Answer: Yes, the project template now using Bootstrap as the starting point.

10:13:57 PDT

Question: can models be like DTOs or ViewModels from MVVM ?

Answer: More on the DTO side. You can use a ViewModel, but they're still DTO's.

10:15:04 PDT

Question: What is the difference between HTML, CSS and ASP.Net or is it the same thing?

Answer: ASP.NET runs on the server. It sends HTML, CSS, JavaScript to the browser.

10:15:10 PDT

Question: in client side which javascript framework will be used ?

Answer: jQuery is included in the template by default, and Bootstrap has its own JS library as well for certain types of user experience and functionality.

10:15:58 PDT

Question: what is the name of the utility using to quickly zoom in and out of the screen?

Answer: ZoomIt from Sysinternals <http://technet.microsoft.com/en-us/sysinternals/bb897434.aspx>

10:16:24 PDT

Question: kindly give us one example for creating models

Answer: We just created a few - album and artist

10:16:27 PDT

Question: Can we also get some information about Areas?

Answer: @Amit, I think they already stated that they weren't going to have time to squish this in today's schedule. Check out this link for more on areas: [http://msdn.microsoft.com/en-us/library/ee671793\(VS.100\).aspx](http://msdn.microsoft.com/en-us/library/ee671793(VS.100).aspx)



10:16:50 PDT

Question: ARTIST IS A DATATYPE ????

Answer: Artist is a class

10:18:22 PDT

Question: Jon are you guys going to get into repository patterns???

Answer: Not today - we're going more intro level today. See the MVC 4 exam prep Jump Start here:

<http://www.microsoftvirtualacademy.com/training-courses/developing-asp-net-mvc-4-web-applications-jump-start>

10:18:53 PDT

Question: Can we create Model class in any other folder other than Models folder?

Answer: Yes. It can even be in another project.

10:19:43 PDT

Question: Why create the Artist class? Why couldnt you just drag and drop the Artist table from the database? Isnt this going one step back as i could have easily added a table and that would have done the trick

Answer: Models don't map directly to the database. We'll talk about that a bit more later.

10:20:09 PDT

Question: but creating model class in model folder is good practice

Answer: Yes - easier for other developers to find it, for one thing

10:20:35 PDT

Question: in the Album class is the Artist supposed to be of the Artist Type?

Answer: Yes

10:22:27 PDT

Question: do you plan an advanced MVC session at some time ?

Answer: We've done an exam prep one here: <http://www.microsoftvirtualacademy.com/training-courses/developing-asp-net-mvc-4-web-applications-jump-start>

10:23:03 PDT

Question: I'm using Visual Studio 2013, how do I make a new class in the model?

Answer: Hi @Corey. A model is a class. If you want to create a new model, you can start by right-clicking on the Models folder and then selecting "Add class...". Then you can use any class as the type for the properties on other models.

10:25:28 PDT

Question: what if we love regex?

Answer: For validation? You can always use a regex validation attribute [RegularExpression("[pattern]")]

10:25:29 PDT

Question: Can we have custom DataType?

Answer: Yes

10:25:47 PDT

Question: Example for dropdown?

Answer: We'll show that during the Views session

10:26:36 PDT

Question: Show Artist class, please.

Answer: We just showed it



10:27:27 PDT

Question: RE: my previous question! In case anyone was wondering. The reason 'Class' wasn't showing up for me in the 'Add' menu after right-clicking on Models, was because I was still running my Project in Google Chrome. As soon as I clicked Stop, 'Class' appeared in the 'Add' menu.

Answer: Good catch, I do that all the time

10:27:48 PDT

Question: with validation and data types, If I put them on a model, how will I make sure that my view model use the same validation and data type

Answer: Chris, model binding on your controller as well as the client-side validation (JavaScript) require the data annotations as well. In code first, the attributes will affect table generation. You'll need the attributes in both the M and the VM.

10:29:08 PDT

Question: Album is a type?!

Answer: @Mohamed he's already created an Album class. It's not a base type.

10:30:42 PDT

Question: When you say that a Model is just a class, are you saying a POCO class, or any class?

Answer: As far as the MVC framework is concerned, a class is a model is a class. For EF, there are some limitations for data types (due to SQL capabilities), but for the most part, yes, POCO classes are all you need.

10:31:49 PDT

Question: Data Context is EF DbContext right?

Answer: Yes

10:32:17 PDT

Question: @Chris what is the little snippet window in your visual studio that is showing the mini version of code

Answer: Alt-F12

10:32:19 PDT

Question: Can we create single context for multiple models???

Answer: Yes, a single context can hold all your models.

10:33:28 PDT

Question: What is a data context?

Answer: In this example, the data context is the abstraction used to connect to the database, query data, insert new rows and the like.

10:34:15 PDT

Question: any talk about a repository pattern instead of the model directly to the DB

Answer: We'll mention it - it's covered in more detail in the MVC 4 exam prep MVA course

<http://www.microsoftvirtualacademy.com/training-courses/developing-asp-net-mvc-4-web-applications-jump-start>

10:35:19 PDT

Question: A model is design of data in the form of class...?

Answer: You can think of it like that, yes. The "model" class is a representation of data.

10:36:34 PDT

Question: Data context is LINQ?

Answer: Data contexts support LINQ queries, but are not part of LINQ.

10:36:49 PDT

Question: But if u have the class Album, is not necessary AlbumID

Answer: Correct, but a lot of things work easier if you have an int id



10:36:51 PDT

Question: This is cool. You can use the class to define the relationship between classes?

Answer: Yes, absolutely! Groovy, eh? 😊

10:37:15 PDT

Question: What did you change in Album?

Answer: Removed all properties but AlbumID and Title properties

10:37:56 PDT

Question: How would I undo view or controller scaffolding (if say I misnamed the controller, selected the wrong model, etc)? Do I have to manually delete everything that was created?

Answer: Yes, just delete the controller and controller directory - it's pretty quick

10:38:16 PDT

Question: Could you setup the complete model structure in MS ACCESS and import it to visual studio and structure it in classes etc in MVC automatically?

Answer: There are no workflows or tooling that I am aware of for this. But you could import your database into SQL server and then use "database first" instead of "code first".

10:38:32 PDT

Question: Amazing what some skill and 296KB of ZoomIt can do.

Answer: Yes!

10:39:07 PDT

Question: What was the menu item selection Chris pulled up to get the Scaffolding dialog?

Answer: MVC 5 views with Entity Framework

10:39:34 PDT

Question: Can you tell us why you're creating some of the classes?

Answer: The classes are our models

10:39:45 PDT

Question: What type of controller was used?

Answer: Controllers are always inherited from the base Controller class in the MVC Framework.

10:40:38 PDT

Question: I see. So there isn't a quick way to undo? Or is there a way to update the controller that will update the resulting scaffolding files? Just looking to streamline my workflow

Answer: No, no quick undo. Fortunately scaffolding is fast.

10:41:04 PDT

Question: Can you change how the scaffolding does its magic to use with other frameworks?

Answer: Yes, see here: <http://www.asp.net/visual-studio/overview/2013/aspnet-scaffolding-overview>

10:42:27 PDT

Question: You can get to the menu item by right clicking on the model class and "generate controller" or something like that

Answer: Models don't always map to a controller, and a controller action doesn't always have a model

10:42:44 PDT

Question: class is disabled when I right click on model and choose add

Answer: You need to stop the application from running



10:44:14 PDT

Question: Do you have a preference of code first vs. data first?

Answer: I don't think there is a published "favorite" as there are so many considerations. I have used code first in dozens of projects and, as a c# dev, prefer the ability to use code first and migrations, seeding data, etc.

10:46:08 PDT

Question: i wanted to know where the data that appeared in the website came from , the album data. where is the connection to the database , or in a more clear way how model save the data that it receives ??

Answer: The data is stored in the DB. Using the conventions of Entity Framework and the MVC Framework, the application uses built-in components to connect to the DB and retrieve the data.

10:47:13 PDT

Question: can I have Enable-Migration for multiple DataContext

Answer: Yes, you have to specify the -DataContext parameter to the EnableMigrations script. If multiple contexts exist in the project (you must compile first) it will give you the warning and exact command you'll need to enable the migrations.

10:47:34 PDT

Question: What is the extension showing the number of references(in grey) above the property names in Visual Studio? Is it only in the full versions of VS?

Answer: That is actually built into VS2013!

10:50:13 PDT

Question: how to enable migrations for both contexts? If I need both for ASP.NET Identity DB and for business model?

Answer: You would need to specify the context, similar to the following: Enable-Migrations -ContextTypeName Namespace.Models.ContextName

10:51:55 PDT

Question: When a record was created - did VS automatically create a table withiin the existing database?

Answer: Yes, but if the database didn't exist, it will create the DB for you as well.

10:52:01 PDT

Question: Do you use dependancy injection in your pojects?

Answer: Absolutely - MVC has great DI support

10:52:53 PDT

Question: why are you avoiding any comment that suggests that code first isn't all that great? it's obvious, hiding your head in the sand is not the way to handle it

Answer: You're welcome to get your data any way you want. EF Data first, any other ORM, etc.

10:55:36 PDT

Question: Is there any Url for attributes for Models???

Answer: Here is some info on validation attributes: [http://www.asp.net/mvc/tutorials/older-versions/models-\(data\)/validation-with-the-data-annotation-validators-cs](http://www.asp.net/mvc/tutorials/older-versions/models-(data)/validation-with-the-data-annotation-validators-cs)

10:55:59 PDT

Question: "entitytype has no key defined" when creating the review controller. did I do something wrong?

Answer: Do you have an int ID property?

10:56:45 PDT

Question: Do you have a preference for the many DI available

Answer: I kind of like Ninject and StructureMap. Simple Injector is nice, too.



10:57:41 PDT

Question: Thanx

Answer: A more complete list is here: <http://msdn.microsoft.com/en-us/library/system.componentmodel.dataannotations.aspx>

10:57:48 PDT

Question: What about Unity?

Answer: Sure, that's fine too 😊

10:58:10 PDT

Question: When's the next break going to be?

Answer: Just a few minutes - about 5?

10:58:29 PDT

Question: where can i find that code? class Album, Artist & the others. Christopher Harrison wrote too fast

Answer: We'll post during the break

10:58:38 PDT

Question: Whats DI stand for?

Answer: Dependency Injection. It means that if you need something (you depend on it) it will be provided for you, instead of having to create it yourself. It helps to keep your classes "light" and well-separated from other logic.

10:59:28 PDT

Question: Can we write customized javascript validation?

Answer: Yes you can, and you can create your own server-side validation as well. See here:

[http://msdn.microsoft.com/en-us/library/gg508808\(vs.98\).aspx](http://msdn.microsoft.com/en-us/library/gg508808(vs.98).aspx)

11:07:00 PDT

Question: It seems odd I would set a required field on the model rather than the controller. Shouldn't input control be at the point of input?

Answer: By setting the validation attributes on your model you get the best of both worlds. Server, client and SQL validation are all made possible there. If you use a VM you'll need to also attribute your properties there, but the controller does validation for you using the attributes of the model used in model binding for the request. If the action that is being executed expects an Album parameter, an instance of that class will be created and populated for you at the controller level, and the model will be validated using the attributes you'd decorated the class with.

11:08:46 PDT

Question: Will you address specifically how the URL paths are defined by the classes and methods being created?

Answer: @Cole, I don't see routing specifically in the schedule, but that is what you're looking for. If you're following along, check out the RouteConfig.cs class in the app startup folder. There you will see the default routing, similar to this: {controller}/{action}/{id}. Controller is your class, Action is the method.

11:10:02 PDT

Question: After changing Review.cs, I now get an InvalidOperationException when running my project. It says the 'ApplicationDbContext' context has changed since the database was created. What can I do to fix that?

Answer: For that, you need to add a migration (I think they'll demo that after the break) and then update your database. Typically you'd do something like Add-Migration ReviewUpdates from the Package Manager Console, then the command Update-Database

11:11:42 PDT

Question: Why you used the MVC using Entity Framework? I mean what's the point?

Answer: You will need some strategy for connecting to a database if you're storing/working with data. EF is the current recommended strategy for doing this on the MS stack.



11:14:05 PDT

Question: @Christopher is it possible to use exclusively ASP.Net on a website?

Answer: Answering on behalf of Christopher, but yes. ASP.NET is an engine you use to build a web application. A "web site" is the business end of the application, the part the user sees when they are looking at in a browser. Your application is responsible for generating the HTML that is sent to the browser, ASP.NET is perfectly capable of handling all of it (either web forms or MVC)

11:14:13 PDT

Question: @James Chambers, you are the man. My project works perfectly again with the updates after using the Package Manager Console.

Answer: Glad I could help!

11:15:32 PDT

Question: Can we use Session variables in a Model?

Answer: Only if you hate kittens! 😊 We have many other options to store information, session is sort of frowned on for various reasons (server-side locks, scalability, etc). What problem are you trying to solve, perhaps I could recommend an alternate approach?

11:16:14 PDT

Question: Would we still look at how to integrate bootstrap into ASP.Net???

Answer: Yes, a whole session on Bootstrap later today

11:16:27 PDT

Question: Where can i find your code ?

Answer: Here: <https://github.com/jongalloway/MVA-Introduction-to-ASPNET-MVC/tree/master/MVCMusicStore>

11:20:03 PDT

Question: I come from a PHP background. What would be the best replacement for PHP Sessions in ASP.NET MVC?

Answer: I tend to use a model to represent the data I need to store, and keep it in a database. This has many advantages, especially when your site grows (think session resets, loss of connectivity, multiple servers in a farm).

11:22:11 PDT

Question: what .cshmtl extension does means?

Answer: It's a custom extension. The view engine (also, humans) then know what language the page uses, in this case, c# (.vbhtml is also used for Visual Basic).

11:22:49 PDT

Question: Is there a list of MVC validation attributes. I have not been able to find in docs.

Answer: Here is a good start: [http://msdn.microsoft.com/en-us/library/ee256141\(v=vs.98\).aspx](http://msdn.microsoft.com/en-us/library/ee256141(v=vs.98).aspx)

11:25:28 PDT

Question: Can we use VB as the programming language in creating an MVC application?

Answer: Yes

11:25:42 PDT

Question: Did I miss where HTTPPOST/HTTPGET for action methods were discussed?

Answer: We'll talk about that in the next module

11:28:36 PDT

Question: @Chris can you use ASP.Net to connect with peripherals (ex: printers)

Answer: Not on the client. However, different technologies like Silverlight and Flash.

11:29:41 PDT

Question: This session will be on MVC 5 right? VS 2013?

Answer: Correct

11:30:06 PDT

Question: Will you be using SQL Server 2014 as your database server?

Answer: We're using LocalDB for the demos. We don't focus on the database today.

11:30:24 PDT

Question:

> *Quoted question:* @Chris can you use ASP.Net to connect with peripherals (ex: printers)

> *Quoted answer:* Not on the client. However, different technologies like Silverlight and Flash.

Answer: On the server side, too. ASP.NET on the server is a full-on .NET application. So, for instance, I modified a coffee maker to run off a serial-port, and started brewing through an ASP.NET web page. 😊

11:31:02 PDT

Question: As a student, I must say that I'm happy to see I'm not the only one getting problems like this in my projects.

Answer: Glad I could help. 😊

11:31:17 PDT

Question: please show us code workflow in debug mode.

Answer: We'll do that when we get into controllers.

11:31:28 PDT

Question: Even the Masters get errors lol

Answer: Yes we do.

11:31:47 PDT

Question: Anything you are covering WEB API in todays session?

Answer: Unfortunately we won't have time.

11:31:49 PDT

Question: for code first ef is there a minimum version of SQL Server required?

Answer: I don't know of a minimum version, but I have used it against SQL 2008. I'll see if I can find something more concrete there. What version are you on?

11:32:03 PDT

Question: Type "prop" then Tab,tab,tab. Nice work for Model tutorial!

Answer: 😊 Love snippets!

11:33:07 PDT

Question: In my Artist class, I have debug error, inconsistent accessibility public virtual List<Album> Albums { get; set; }

Answer: When Visual Studio automatically generates the class it flags it as internal. You need to update Album to be public.

11:33:21 PDT

Question: Is short what is scaffolding? I know there are plenty of links but something to explain it in one sentence would be great

Answer: Scaffolding automatically generates forms for you.

11:33:50 PDT

Question: Model is really just a class. Haha! Great!

Answer: That's it!



11:34:23 PDT

Question: DataContext is an abstraction between your application and data

Answer: That's exactly it!

11:34:38 PDT

Question: Don't really see why everyone is trying to do code first, the schema that's generated is usually wrong and requires fixing anyway

Answer: The nice part is you can make the schema look however you need it to look.

11:34:52 PDT

Question: Alt-F12 is on VS2013 only?

Answer: Correct

11:35:46 PDT

Question: So this will create a MS SQL db on the iis server? And is this a ms sql db being created now?

Answer: Not on the IIS server, on the SQL server that is on the same machine, or as otherwise specified in the connection string. But yes, it will create it for you.

11:35:54 PDT

Question: Christopher said earlier that if the view contains logic, it's a possible code smell. If I have to build my form dynamically based on some templates coming from the database for each field, and the template dictates whether my field will be a textbox or dropdown, mandatory or read only etc. then do I have possibilities to avoid the logic in views?

Answer: That's why I mentioned "smell". It's not necessarily an indication that something has gone wrong.

11:36:42 PDT

Question: Can we have also a burger?

Answer: Burger.API

11:38:16 PDT

Question: @Chris what is a Razor v2 and Razor v3 ASP.NET Web Site in Visual Studio?

Answer: Razor is the view engine. It parses your view files and generates output based on the data provided from the controller. V3 is the new version introduced in later versions of the MVC Framework.

11:38:40 PDT

Question: that reminded me of Seinfeld's pirate shirt

Answer: Ha!

11:38:54 PDT

Question: I'm sorry, did I miss what the little gray overlays over the "public" keywords are? The ones that count references.

Answer: Those are new to 2013

11:40:12 PDT

Question: Telerik KendoUI is a good MVC Framework that provides support for the GridView control familiar to ASP.NET Web Forms developers.

Answer: There's a whole host that are available.

11:40:27 PDT

Question: The views class files seem to be written in Razor format. Can you give some details about Razor? Also connectivity of C# and Razor syntax?

Answer: We'll touch on Razor in the Views module.

11:41:17 PDT

Question: DevExpress for ASP <https://www.devexpress.com/>

Answer: Lots of great ones out there



11:41:18 PDT

Question: Is there a difference between the model and the context?

Answer: Model is the class that represents your data, context is the actor that manages the connection to the DB and related work (queries, etc.).

11:42:11 PDT

Question: Sorry I joined late.. are we talking about MVC 4.0?

Answer: MVC5, although a lot of what we're talking about applies to 4 as well.

11:43:37 PDT

Question: Can you answer my questions @Christopher?

Answer: I'm trying to reply as fast as I can. 😊

11:45:15 PDT

Question: So a model is a bunch of properties, and the Context is like the Table Adapter to the Model? But both the Model and Context are Placed in the Models Folder?

Answer: You're on the right track. Many developers actually choose to push the models out to a different DLL as a best practice. You could put them in different folders if you like, or as others do, in different projects altogether.

11:46:53 PDT

Question: When textbox type=email, does it automatic validate your input?

Answer: It is an attribute that doesn't do anything on its own, but it's automatically handled for you through the Data Annotations attribute, and the client-side libraries that are used by the template to validate the input.

11:47:57 PDT

Question: yes it will validate your input after you post it.....if u want to validate before posting you can go for Ajax

Answer: That's it

11:48:13 PDT

Question: Haha, thnx for the game info Christopher

Answer: I'm here for you!

11:49:23 PDT

Question: how does entity framework handle transaction logic?

Answer: Nothing happens in EF (in committing to the DB) until you call SaveChanges. All the changes you make are wrapped up in a TX. If you want to have greater control, have a look at this: <http://msdn.microsoft.com/en-us/data/dn456843.aspx>

11:51:09 PDT

Question: I know you guys are going over annotations, will you be touching on FluentAPI?

Answer: We won't unfortunately. That's beyond the scope of the course.

11:51:10 PDT

Question: Wonder where json comes into play when using models

Answer: JSON is typically used from, say, an API to represent the model. You can return a JsonResult from an action to return your data as JSON as well. Then, from the client, you interpret your JSON as you need (typically by using it to build up your page, populate lists, dropdowns, etc.).

11:51:35 PDT

Question: if we use GUID for PK / FK is there anything additional we have to do? All of the samples seem to only use int

Answer: I think you might have to add additional code to do that, but you can use GUIDs.



11:51:59 PDT

Question: hey..i added attributes to my model properties but they are not reflecting on my page

Answer: Might need a rebuild

11:52:53 PDT

Question: How does EF work with stored procedures...I've got some long running procedures like payroll, or end of month processing that I think it's preferable to handle at the DB level.

Answer: Short answer - you can add them. Takes a bit of additional work, but doable.

11:53:10 PDT

Question: can we integrate rest api in mvc application?

Answer: Absolutely - WebAPI is built for that.

11:53:48 PDT

Question: I create a Model and a Model-View. Both must be inside a Model Folder?

Answer: You can put it into whatever folder you want. So if you want to create a new folder named ViewModels you can.

11:53:53 PDT

Question: Thank you for zooming more frequently (said the blind old man) ...

Answer: We do our best!

11:54:03 PDT

Question: Will you be talking about WebAPI today?

Answer: Unfortunately, no.

11:54:09 PDT

Question: The seed code is also usable as unittest startup data.

Answer: Absolutely!

11:54:24 PDT

Question: I prefer the Code-First approach, because we developers/programmers don't want a development tool/s to create all of stuff for us. We want it to help us but not to replace us in software development. Haha!

Answer: I agree completely. Allows me to keep focused on code rather than database stuff.

11:55:04 PDT

Question: @Chris is it possible to add a video/media content inside a website?

Answer: Absolutely. There's a handful of ways to do it.

11:55:22 PDT

Question: I Start to use Entity Framework long time ago but I quit because this migration thing doesn't work

Answer: It does. Sometimes you need to help it along, but it does work.

11:55:39 PDT

Question: can I manually change database and model code without using migration?

Answer: As long as the database is in a correct format you can.

11:56:22 PDT

Question: Ya u can use Silverlight for that Purpose...

Answer: You could also use HTML5 for videos

11:56:32 PDT

Question: Does this migration get better?

Answer: It does. Just not with live demos when I'm doing them. 😊



11:58:00 PDT

Question: sorry this is my first live event and i came late because i was looking at the home page and hoping this jump start would change to in progress after an hour i checked and found it already going on

Answer: It will be recorded and published in about two weeks.

11:58:11 PDT

Question: it seems that there is no ASP.Net Web Configuration under project. How do I set up membership user and role?

Answer: We'll hit that in module 7

11:58:53 PDT

Question: how to authenticate that if we want to get data from a sharepoint list..?

Answer: That's a long, long story. 😊 Unfortunately beyond the scope of today.

11:59:14 PDT

Question: @Christopher, you aren't answering my questions

Answer: @Bola Adekoya: Perhaps this will help? Here's some more info on working with stored procedures in EF6 and later: <http://msdn.microsoft.com/en-us/data/dn468673.aspx>

11:59:24 PDT

Question: How did @Jon get the features to inspect his code (at the bottom of the page)?

Answer: Web Essentials

12:00:54 PDT

Question: Is Web Essential available in VS 2013 Express???

Answer: It is

12:01:00 PDT

Question: HOW can I get Web Essentials?

Answer: You can install Web Essentials 2013 from here: <http://visualstudiogallery.msdn.microsoft.com/56633663-6799-41d7-9df7-0f2a504ca361>

12:01:15 PDT

Question: Multiple browsers: File -> Browse With... It's also present in the Standard toolbar.

Answer: The other great part is the browser link automatically updates everything.

12:02:31 PDT

Question: Can we customize the Javascript with Web Essential???

Answer: No, not unless you were to modify the code that ships with the plugin. If you have a request, you can always post it on their site.

12:03:04 PDT

Question: Does MVC5 used CSS3 and HTML5?

Answer: By default the templates produce documents that support HTML5 and CSS3.

12:05:58 PDT

Question: which one is best HTTP Post or Ajax Post

Answer: AJAX operates over HTTP, but does it in the background. A straight HTTP post will cause a reload in the browser, an AJAX request can be handled in the background via script.

12:06:08 PDT

Question: Is the trick @Jon is currently using (Tab, Tab) available built in Visual Studio?

Answer: Web Essentials



12:06:22 PDT

Question: Does web essentials work with VS 2012?

Answer: It does

12:06:32 PDT

Question: Zen coding blog post by John Papa <http://www.johnpapa.net/zen-coding-in-visual-studio-2012/>

Answer: Thanks!

12:06:33 PDT

Question: Does web essentials work with VS 2012?

Answer: There is a version fro VS2012, yes. But not all features will be back-ported.

12:07:06 PDT

Question: is this also available in VS2012 or only on 13

Answer: 2012 as well

12:07:13 PDT

Question: Can we use web essentials with vs2012. It's really cool stuff

Answer: 2012 as well

12:07:26 PDT

Question: what about VS 2010 support?

Answer: I believe it does

12:07:40 PDT

Question: is web essentials added to the project by default like bootstrap or we have to nutget it in?

Answer: Web Essentials is an add-on

12:08:40 PDT

Question: will it be possible for u guys to show the standard css styles for a responsive website

Answer: We'll be doing bootstrap later today

12:09:06 PDT

Question: can we just add replace the UI layer with angular JS ? so for MVC we will only develop up to controller and the UI will be rendered in angular JS ?!

Answer: If you're using Angular, you'll still need a way to push the client-side scripts to the client. So, you could pack up your Angular controllers etc. in Views or static files as appropriate, and use it all as part of your MVC application.

12:10:07 PDT

Question: will be break? and when?

Answer: Momentarily.

12:10:20 PDT

Question: when this recording will come online?

Answer: 2 weeks

12:12:01 PDT

Question: How do I get the MVC 5 templates for VS 2012?

Answer: Install the VS2013 templates for VS2012

12:14:47 PDT

Question: LOOKS COOL LIKE FIREBUG

Answer: It's similar, but it integrates all the way back to the source code. So like Firebug that can change your source code.



12:15:17 PDT

Question: How did you start it up to act like this? Just debug or?

Answer: Yes, just debug after installing VS Web Essentials

12:15:51 PDT

Question: Does browserlink automatically check code out of TFS source control as changes are made?

Answer: It modifies the code through Visual Studio exactly as if you'd opened the file and started typing

12:16:37 PDT

Question: Will the Identity module cover Twitter / Facebook?

Answer: I'm going to show Facebook auth

12:16:54 PDT

Question: where this recording will be posted ? is it in channel9 or anywhere else?

Answer: Recorded, will be on the MVA site

12:17:40 PDT

Question: How to integrate EntityFramework with ODP.NET? Thank you

Answer: It looks like there are some good resources on Oracle's web site, hope this helps:

<http://www.oracle.com/technetwork/issue-archive/2011/11-sep/o51odt-453447.html>

12:18:19 PDT

Question: Grid view ?

Answer: We showed the Index view, which uses a table to show a grid of data. I'll try to interrupt Christopher and talk about more advanced options during the Views talk.

12:18:42 PDT

Question: The required label error is automatic?

Answer: Yes, it's automatic for required or non-nullable properties

12:18:45 PDT

Question: Voucher Code ??

Answer: It'll be on the break slide

12:19:02 PDT

Question: Where can I watch the first part?? i missed it and I need it for a project

Answer: It'll be available on the web site in about 2 weeks.

12:19:29 PDT

Question: Does it have a console like Firebug?

Answer: IE has F12 tools. Browser Link will work with any browser tools - IE, Chrome, Firefox / Firebug, etc.

12:19:39 PDT

Question: When will be the recording available. I am eager to review some point i am still confused

Answer: It'll be available in 2 weeks.

12:20:11 PDT

Question: Can you show us a little bit an integration of a Scheduler with MVC?

Answer: That is a fairly complex sample to set up for an intro session, but there are some great resources out there. Do a search for "asp.net mvc scheduler component" and you'll find some fully-baked code that you can use.

12:20:42 PDT

Question: Please can I get the installation for VS2013 online?

Answer: <http://www.visualstudio.com/en-us/downloads/download-visual-studio-vs> (you can get Express for Web, which is free)



12:21:10 PDT

Question: I've been using Web Essentials mostly for minification. I had no idea of these shortcuts. Thanks Jon!

Answer: Sure - there's tons of great stuff in there, new releases every few weeks

12:21:33 PDT

Question: Of course, I'll leave it up to Jon and Christopher to decide if they want to demo a scheduler

Answer: Not sure what we'll have time. 😞

12:21:41 PDT

Question: Are all the Visual Studio Web Tools included (except Web essentials)?

Answer: Yes, all web tools are included in Visual Studio 2013

12:21:58 PDT

Question: How long lunch will be?

Answer: One hour

12:24:26 PDT

Question: when will this full video be available on MVA

Answer: We will send the URL to all attendees when they're published in approximately 2 weeks.

12:31:26 PDT

Question: does this replace something like browserstack.com?

Answer: BrowserStack is still useful for cross browser testing across a lot of browsers, versions and operating systems

12:32:31 PDT

Question: Is there any plans to add features from popular js libraries to MVC, like durandal etc

Answer: Durandal is merging into AngularJS <http://blog.angularjs.org/2014/04/angular-and-durandal-converge.html>
The next release of VS will have more AngularJS support.

12:34:03 PDT

Question: My internet connection dropped for a few minutes, how did he get that tool bar on the bottom of the page?

Answer: Using the VS Web Essentials extension - vswebessentials.com

12:35:01 PDT

Question: Jon is Standar toolbar

Answer: Thanks!

12:35:10 PDT

Question: It's the Standard option

Answer: Thanks!

12:35:15 PDT

Question: Standard Toolbar gives you the multiple browser selections....

Answer: Thanks

12:36:59 PDT

Question: I stepped away for a second, is that the Page Inspector he's using?

Answer: Browser Link - it's similar to Page Inspector, but works with any connected browser

12:44:04 PDT

Question: After this i will need a c# tutorial.. Im leaving PHP behind! Where can i learn c# more?

Answer: Here's a starter class on C# - <http://www.microsoftvirtualacademy.com/training-courses/c-fundamentals-for-absolute-beginners>



12:53:11 PDT

Question: Is there a recording of this session available?

Answer: It'll be posted on microsoftvirtualacademy.com

12:53:23 PDT

Question: At what time we'll start?

Answer: 6 minutes left

12:53:56 PDT

Question: where can I please find more information about the commands to run like update the databases, and the migrations?

Answer: Info on code first migrations here: <http://msdn.microsoft.com/en-us/data/JJ591621.aspx>

12:54:51 PDT

Question: Where does Chris get his fancy shirts?

Answer: 😊

12:55:27 PDT

Question: Where can i learn the fundamentals about .NET web services? And, MVC works well with web services REST and SOAP?

Answer: We recommend using ASP.NET Web API for REST services - <http://asp.net/web-api> - for SOAP you probably want WCF, but also look at Service Stack (3rd party, costs money)

12:55:43 PDT

Question: whats viewbag in the context

Answer: ViewBag is a dictionary object designed to store simple pieces of data. It's used to send data from the controller to the view.

12:58:48 PDT

Question: from what I understand so far, the HTML wrapped controls no longer exist and scaffolding is used? There is a designer support in VS or something similar? Thx.

Answer: The scaffolding and intellisense will take care of most all of your needs.

13:07:39 PDT

Question: What did you have for lunch?

Answer: Deli sandwiches 😊

13:11:04 PDT

Question: how much longer is this course?

Answer: 3 sessions after this one (Controllers, Views, Bootstrap, Authentication) and then a quick resources thing

13:11:14 PDT

Question: MVC is classy.

Answer: Nice

13:11:29 PDT

Question: sent to Team: I am going to log off for today, Christopher and Jon you are doing an amazing job.... good night from Denmark to you all

Answer: Thanks!

13:12:45 PDT

Question: Is there a deep dive MVA session on creating and managing Migrations. Do migrations automatically handle updating both the structure and data content of previously deployed systems?

Answer: There isn't an MVA session, but there are a few tutorials: <http://www.asp.net/mvc/tutorials/getting-started-with-ef-using-mvc/migrations-and-deployment-with-the-entity-framework-in-an-asp-net-mvc-application>
<http://www.asp.net/mvc/tutorials/hands-on-labs/aspnet-mvc-4-entity-framework-scaffolding-and-migrations>



13:14:39 PDT

Question: we can dynamically change editors in views from controllers or models?

Answer: I'm not sure what you mean. Are you asking if a controller can select different views dynamically?

13:14:59 PDT

Question: Been a web form dev for a few yrs, and new to MVC, using MVC 4 now, think it's really cool & this event is very helpful.

Answer: Great, thanks Tanya!

13:17:05 PDT

Question: In MVC .aspx file is deprecated?

Answer: There is an .aspx view engine, but .cshtml views are more commonly used as they're simpler and HTML focused

13:20:45 PDT

Question: Will you go over auth/security with the views?

Answer: Yes, that's the second to last session

13:22:35 PDT

Question: which way i need prefer when i need different elements for each type: @if statement or different view?

Answer: I'd recommend using different views for different models.

13:23:27 PDT

Question: What will be the file extension of the published MVC application?

Answer: There's no file extension - it's domain.com/controller/action/id

13:28:15 PDT

Question: For solutions with code share, say an ASP website and a Windows Store app, would the Model and Controller be common to both projects or just the Model?

Answer: Break your model out to a separate DLL and keep your controllers in the web project; you won't be able to reuse those elsewhere.

13:30:15 PDT

Question: using cshtml files, it doesn't allow using server side variables in an included js files, but .aspx file does allow, what's the main reason for cshtml not allowing?

Answer: Can you clarify? I'm not sure what you're asking. You can output server side variables in a view, including in a script block.

13:30:33 PDT

Question: Where do you get the Model Binding?

Answer: It's built in - it's the code in the Post methods

13:32:26 PDT

Question: Ok, so it is not an external download on Visual Studio?

Answer: No, it's part of MVC, no additional download

13:32:49 PDT

Question: will you speak about partialview?

Answer: I think we'll get into that in the next module (Views)

13:33:37 PDT

Question: Can you do an excludes instead of includes?

Answer: Yes, you can work that way as well.



13:34:53 PDT

Question: Midnight @Istanbul! I have to go work morning

Tnx from Turkey...

Answer: Thank you! I <3 Istanbul, hope to get back again soon.

13:35:44 PDT

Question: hey a have a question?!

Answer: That's not a question!

13:36:10 PDT

Question: Thanks in advance for having this available for download later. I'm watching this at my college and we're being booted out in 30 minutes lol... Been really good so far... learned a lot more from this than I have sitting in a classroom over the last year.

Answer: Thanks for attending!

13:36:32 PDT

Question: How do you create a view model?

Answer: A viewmodel is just a class

13:37:39 PDT

Question: if you have a view model and you use EF, do you have to get the data from EF and then feed it into the view model and then put it into the view?

Answer: If you're storing the data in the database, and using EF to retrieve your models, and *then* you're using View Models in the UI, then YES, you'll need to map the data into the VM. This is why the community has created libraries like AutoMapper and the like...they do the heavy lifting for you.

13:38:17 PDT

Question: Is viewmodel class differ to model class?

Answer: Still just a class...but used between the controller and view, not between the controller and database.

13:38:53 PDT

Question: e.g. i have a js file named common.js, included in view parent.cshtml and uncle.cshtml, and in common.js file, cant use server side variable , e.g. <%=ServerSideVar%> it might bcs this is not razar syntax, and couldnt use @Model because in js file, no definition for Model... what would be the best solution in this case ?

Answer: You can include in ViewBag (<http://rachelappel.com/when-to-use-viewbag-viewdata-or-tempdata-in-asp-net-mvc-3-applications>) or use a partial view (we'll talk about that more later)

13:39:36 PDT

Question: Ok, so many things are classes!

Answer: That's actually the beauty of it, everything being a class makes it easy for testing, reuse, etc.

13:39:53 PDT

Question: As it "Just Works", in which cases would be advised to customize the model binder?

Answer: One example would be binding to complex objects

13:41:19 PDT

Question: is automapper something to download for VS?

Answer: It's a NuGet package, or you can download it directly and add a reference.

13:41:51 PDT

Question: Is there an article i could read up on to get more familiar with the techniques to use to avoid getting a site hacked it was just covered in basic details by the presenters

Answer: Some information on overposting here: <http://www.asp.net/mvc/tutorials/getting-started-with-ef-using-mvc/implementing-basic-crud-functionality-with-the-entity-framework-in-asp-net-mvc-application#overpost>



13:43:41 PDT

Question: who is tanya?

Answer: Another question, sorry

13:44:34 PDT

Question: Is it true that everytime you get a new view from MVC you get refreshing of the page? I am trying to understand controller callbacks vs a javascript/ajax solution...? Is MVC mainly a full htmlpage delivery solution, or is ajax-like behavior built in?

Answer: It's a full page request. You can create Ajax requests, we'll talk about that later.

13:45:50 PDT

Question: many a time we need to create a "view model" which is a combination of several entities of EF. in that case how will the scaffolding work !?

Answer: When you get into more complex scenarios you can't leverage scaffolding, but there are other options (display and editor templates, for example).

13:46:48 PDT

Question: Can we also use Ajax in MVC?

Answer: Yes, MVC fully supports asyc operations on the server and AJAX requests from the client.

13:49:20 PDT

Question: talk more about ssl!

Answer: SSL has more to do with transport, and less to do with application development. You SHOULD use it, but it doesn't really impact (directly) how you build the app. The codinghorror link Chris had put up is a great read. SSL isn't part of the MVC Framework (though you can detect transport and even require it).

Link: <http://blog.codinghorror.com/should-all-web-traffic-be-encrypted/>

13:50:59 PDT

Question: The source on Github doenn't run? And misses some files..

Answer: You need to build first (control-shift-B) to pull in the NuGet packages

13:51:13 PDT

Question: can you give some information on Rest URL routing vs MVC routing

Answer: You can configure routing to meet your needs, even match RoR or other frameworks. Check out RouteConfig.cs in App_Start for the default.

13:51:30 PDT

Question: Where do you get a Vanity URL?

Answer: We're talking about that now

13:51:40 PDT

Question: Where do you get a Vanity URL?

Answer: A vanity URL just means "looks pretty". 😊

13:51:56 PDT

Question: in web forms defense it does include friendly urls now

Answer: True, I'll try to mention that at some point

13:52:33 PDT

Question: how about integrate windows authentication into mvc web app authentication ? more information on that ?

Answer: Tanya, you can select that as an option when you're creating the project. Then all your attributes will work as-is for authorization.

13:53:48 PDT

Question: how the authorize filter redirected to Login page?

Answer: Filters are executed at different times in the execution of the request. The Authorize filter attribute is called *before* your request, and does a redirect if you are still anonymous in your session.

13:53:56 PDT

Question: please post link regarding ssl

Answer: It was here: <http://blog.codinghorror.com/should-all-web-traffic-be-encrypted/>

13:54:15 PDT

Question: can you show how to unit test something on MVC please if you have time?

Answer: We won't have time today - some info here: <http://www.asp.net/mvc/overview/getting-started/recommended-resources-for-mvc#tdd>

13:54:25 PDT

Question: Will this session be available to re-watch?

Answer: Yes

13:56:46 PDT

Question: Is there a way to create a 'default' route if no routing is found?

Answer: Yes, that's called a catch-all route. Easy to set up.

13:57:12 PDT

Question: Is there a way to create a 'default' route if no routing is found?

Answer: Be sure to check out RouteConfig.cs for the default. It's in your application's App_Start folder.

14:00:17 PDT

Question: I encountered an issue with partial view, ParentViewModel includes a property of type CommonViewModel called CommonObj, and there is Parent.cshtml and Common.cshtml for each viewmodel, CommonViewModel has a property called ID. Then in view Common.cshtml, put a hidden field @html.hidden(model => model.ID). when post data for ParentViewModel data to a save controller, it couldnt pick up value for viewmodel.CommonObj.ID automatically, after inspected the html, it seems MVC created a hidden field called just 'ID' instead of 'CommonObj_ID'. tried to have a hidden field in Parent.cshtml as model.CommonObj.ID, but it kind of mess up the values too... what would be a better solution for this case ?

Answer: Tanya, the easiest thing to do sometimes is just to use HTML. Remember that a hidden is still just an HTML input with type="hidden", so you could just write that out by hand and use the @Model.CommonObj.ID as the value if you like. Is that possible in your context?

14:01:23 PDT

Question: ie. which Route is the 'boss'? the controller action? the first matching route?

Answer: The first matching route

14:01:26 PDT

Question: So, to understand, this Router Filter/Attribute on an action method 'overrides' the default Routes?

Answer: Think of them as taking priority. If there is an exact match here that validates against your rules, it will execute there rather than iterating through the rest of the routing tables.

14:02:38 PDT

Question: good job so far, all very good info.

Answer: Thanks!!

14:03:18 PDT

Question: Is there a way to call the controller method from view with some form data in latest version of MVC

Answer: In all of them! 😊 The controller will look at the querystring or the form. You can push data in with, for example, a jQuery request (a GET or POST will allow you to specify the data you want as payload).



14:03:38 PDT

Question: Could you write the url of the blog, please?

Answer: Which blog are you asking about?

14:06:17 PDT

Question: MVC is great! @Jon and @Christopher you both done well! I learned a lot. Thanks for this session. Hope this session to have a Part 2. I want to dig more deeply about MVC. Bye for now. Dennis from Philippines.

Answer: Thank you! There's some more information in this Jump Start:

<http://www.microsoftvirtualacademy.com/training-courses/developing-asp-net-mvc-4-web-applications-jump-start>

14:08:45 PDT

Question: its really helpful!!! great work. I could still stay up for another two hours, Tanya from Dublin

Answer: Glad you're enjoying it!

14:08:56 PDT

Question: The helper @Html.Action can be used to call controller actions from the view Navamohan but i prefer AJAX calls instead

Answer: Lots of ways to tackle that, absolutely!

14:09:19 PDT

Question: Is there a course on creating a repositories for MVC or Services (which ma also use a repository)

Answer: There are a few books, but no course as of yet.

14:09:55 PDT

Question: Im getin this error on the Run of Reviews... var reviews = db.Reviews.Include(r => r.Album);

Answer: Make sure Album is flagged as virtual.

14:10:22 PDT

Question: Ok so we cannot use MVC directly like Html.Actionmethod kind of stuff right, have to depend on jquery to do it

Answer: You can also do it directly.

14:10:55 PDT

Question: Ok so we cannot use MVC directly like Html.Actionmethod kind of stuff right, have to depend on jquery to do it

Answer: Where would you be trying to call this code from? From the client? No, web browsers don't know how to invoke the code (they're kinda "not smart") so you have to help them out. Either you're going to have a "parent" view that calls Html.RenderAction, or you're going to use Ajax or otherwise. Lots of choices there. But it all comes down to where you're trying to call the method from.

14:12:57 PDT

Question: I just looked for the database in our project, and i couldn't see it, how does it save our inputted information? maybe it's to late for me afterall :-D

Answer: Stender, there is a database created for you behind the scenes, if one doesn't already exist. It is part of the way the convention works in Entity Framework.

14:14:32 PDT

Question: What is the difference between MVC, MVA and MPA?

Answer: MVA is this web site (Microsoft Virtual Academy). MVC is the Model-View-Controller pattern, and also the MVC Framework (tooling, templates) for Visual Studio and Asp.Net. I'm not sure what MPA you're referring to?

14:17:13 PDT

Question: How can we configure 'Page Not Found'/Error page route?

Answer: There is a default error action for you, but if there's a complete miss, you can use static or dynamic error pages. Ben Foster has a good run-through of that here: <http://benfoster.io/blog/aspnet-mvc-custom-error-pages>



14:17:19 PDT

Question: public virtual Album Album { get; set; } Still problem..

Answer: Open /web.config, line 12 change the filename of the MDF (database) file - try this: <add name="DefaultConnection" connectionString="Data Source=(LocalDb)\v11.0;AttachDbFilename=|DataDirectory|\aspnet-MVCMusicStore-123.mdf;Initial Catalog=aspnet-MVCMusicStore-20140623095615;Integrated Security=True" providerName="System.Data.SqlClient" />

14:19:14 PDT

Question: Sorry, it was MVA (Model - view - adapter), MVP (Model - view- presenter) and MVC.

Answer: All three are patterns and that's a big question! They attempt to solve similar, frequently occurring challenges in building applications. There's a good read here comparing a few patterns to help understand:

<http://www.codeproject.com/Articles/42830/Model-View-Controller-Model-View-Presenter-and-Mod>

14:20:30 PDT

Question: can you speak a little bit about integration of a Scheduler with MVC please? I missed the streaming from the beginning, and I need it for a project

Answer: There was no coverage of any scheduling components...the first thing on the agenda was a review of the day's schedule. Is this was you are referring to?

14:23:39 PDT

Question: I need to know how to create and integrate a scheduler using MVC in a project, for activity planning

Answer: Hi, that is unfortunately beyond the scope of the intro, but you can find great resources out there to help get started. For example: <http://www.codeproject.com/Articles/404647/AJAX-Event-Calendar-Scheduler-for-ASP-NET-MVC-in>

14:23:45 PDT

Question: Will the slides, for example: high cohesion, low coupling, be available in addition to the code?

Answer: Yes, slides will be posted with the videos

14:26:44 PDT

Question: this course was really helpful and nice, thank you..you guys are great..Greetings from Albania..!

Answer: Thank you! Greetings to Albania!

14:29:22 PDT

Question: is there a book on visual studio 13 new features?

Answer: There's a series on new features on VS2013 on Channel 9: <http://channel9.msdn.com/Series/What-s-New-in-Visual-Studio-2013>

14:31:55 PDT

Question: this is like classic asp. server and client side code in the same page.

Answer: Rachael, that is a common first impression...but that's really not the case. As with any framework, it's possible to use it as it's *not* intended, but best practices do not lean anywhere close to classic ASP.

14:36:39 PDT

Question: How can I access the Demos used during the conference?

Answer: aka.ms/mva-mvc-source

14:36:41 PDT

Question: If we need to change the name of the field like change it from 'Name' to say 'First Name', then if it is in the Model class, we need to recompile but if in CSHTML, we need not recompile. Right??

Answer: Anywhere you reference a property explicitly, you'll need to update. In the case of code that gets compiled, you're right with the recompile, so the model, a view model or on the controller. And on the view, because it's not compiled, you can simply save and refresh, but to access the new properties (or freshly renamed) then you'll need to compile so the backend is serving up the correct version of your class.



14:38:16 PDT

Question: The reflection is not bad but is not very type safe

Answer: It entirely depends on how you're attempting to use it. For the most part, reflection in the MVC Framework is used to resolve parameterized attributes or to resolve classes that inherit from explicit base classes or interfaces, so it's actually pretty safe in this regard.

14:40:26 PDT

Question: I was like that..

Answer: Working for you now?

14:41:53 PDT

Question: How can avoid any person "hackers" who use software "like fiddler" to play in my post request?

Answer: Earlier they talked about the binding attribute, that is one way. Another is to use SSL (to protect 3rd party inspection or similar). You should never trust the input, so always validate on the server.

14:44:14 PDT

Question: Are we still doing Customizing Views?

Answer: Yes

14:44:54 PDT

Question: Thanks Jon, code with database now working

Answer: Great! Sorry for the hassle.

14:45:51 PDT

Question: will the bootstrap session cover updating items with angularjs, or just the presentation part og bootstrap

Answer: Just Bootstrap. We're not covering Angular or SPA's in this session, not enough time.

14:46:05 PDT

Question: You can get that drop down list already by MVC 3

Answer: Thanks. Wow, time flies!

14:47:31 PDT

Question: You can get that drop down list already by MVC 3

Answer: In MVC3, if you installed the Mvc.Scaffolding package, you could get the dropdown generated in the scaffolding. Until MVC5, though, the helpers just accepted a list of SelectListItem.

14:52:38 PDT

Question: how can we get a auto-complete type dropdownList?

Answer: You can download a Bootstrap plugin for this. You need to code a server-side method to do the lookups (returning JSON, usually) and then configure the plugin to use that endpoint to pass the search terms to.

14:56:49 PDT

Question: What will be there in @Render script?

Answer: On any of your views that use the layout, the scripts section allows you to "inject" script from the page into that part of the document. You typically want it at the bottom of the page, so in the template it's at the bottom of the layout. Now, on a child page, you give it a @section{ <script> and put your script in here</script> }

14:57:26 PDT

Question: Can we get the link please for Rachel's blog?

Answer: <http://www.rachelappel.com/use-viewmodels-to-manage-data-amp-organize-code-in-asp-net-mvc-applications>

14:57:33 PDT

Question: im tired now!

Answer: Me too!



14:59:35 PDT

Question: Hitting midnight here in South Africa. More coffee

Answer: Thanks for staying up late with us!

14:59:45 PDT

Question: Great Session to all involved. Thanks Everyone...

Answer: Thank you!

15:00:00 PDT

Question: sent to Team:

> *Quoted question:* sent to Team: Jon/Chris: I'm doing a 30 day walkthrough that compliments this session really well. I'm TOTALLY okay if you pimp it for me ;o) <http://jameschambers.com/2014/06/day-0-boothstrapping-mvc-for-the-next-30-days/> Comment:

Answer: Go ahead and post it!

15:00:22 PDT

Question: Bootstrap is coming up next?

Answer: It is!

15:00:33 PDT

Question: Thanks for that ViewModel info!

Answer: You're welcome!

15:01:29 PDT

Question: How do you 'inject' the data/model into the sidebars which are present in a layout page? Are they constructed via the controller or some other way?

Answer: A lot of ways to do that. Probably the best way is to do a partial view.

15:01:50 PDT

Question: What's a good practice for highlighting a navigation element when your on a given page? Say, you're on the Albums page. I'd like to highlight (by adding a class) the Albums nav item

Answer: There's a handful of 3rd party implementations that I'd look for.

15:02:10 PDT

Question: Time to go for EST, has a great session today. See you soon.

Answer: Thank you!

15:02:31 PDT

Question: Different Layout Different views?

Answer: You can do it that way. MVC supports the ability to do browser detection and display different views as needed.

15:02:41 PDT

Question: TIP: Sometimes you don't want to use a layout, like in a partial view. You can clear the layout on any page with a line of code on your view: Layout = "";

Answer: Very true. Thanks!

15:02:55 PDT

Question: @Sakib - checkout jqueryui.org for a nice autocomplete sample you can add to your pages

Answer: Love jQuery and jQueryUI!

15:03:08 PDT

Question: but you have to specify the _layout file right? or is it only if you have several layouts?

Answer: You have to specify it!



15:04:27 PDT

Question: but you have to specify the _layout file right? or is it only if you have several layouts?

Answer: _ViewStart.cshtml takes care of the default cases for you. If it's not specified there, you can specify it in your view directly.

15:04:59 PDT

Question: What is the time Christopher and Jon where you are?

Answer: 15:00 here in Redmond, Washington

15:06:41 PDT

Question: Any ideas on how to design complex data entry like collecting the 10 - 15 pages of printed form data you generally have to supply to get a home mortgage into an MVC application?

Answer: Bill, I would break it down. Create several models to represent the application. Store each state in the database as it's being prepared. Have a separate, complete model to represent the actual submission (versus in-progress). Create views for each of the steps. You can then use partial views and AJAX to move between the steps, and Bootstrap has great controls for making it look good. That is one of likely 100's of ways to do it!

15:07:50 PDT

Question: That link to get the voucher points just takes me to my MVA dashboard. Where do I enter the code?

[[REPLY:]]You need to be signed in, which you are already, then locate the tab on your dashboard that says Redeem Voucher

15:12:38 PDT

Question: @james waiting for day19

Answer: Yes, I know...my Granda passed away last week and I took 4 days off for family. I'm resuming this evening, so please stay tuned!

15:13:38 PDT

Question: is there an easy way to render a WYSIWYG for a text box?

Answer: There are a number of open-source JS libraries to do this, including some that are explicitly for Bootstrap.

15:15:47 PDT

Question: no @html helper

Answer: No, not for WYSIWIG.

15:15:51 PDT

Question: no @html helper

Answer: For Bootstrap? Unfortunately, no.

15:16:32 PDT

Question: Questions --- Can you easily conform a ASP.NET MVC app to provide an APP (aka Windows 8.*, Apple or Android) so you can just develop one time. Simply put will launch the browser on the mobile, but only code once????

Answer: That's a big part of what Bootstrap is there for. You do have the ability to create views for specific device types if needed as well.

15:16:50 PDT

Question: sent to Team: He was asking about Bootstrap vs. jQuery MOBILE, BTW.

Answer: There's a lot of questions. I'm doing my best here. 😊

15:17:07 PDT

Question: So you would need to build a separate project for each client? (Windows 8.1, Apple, Android)....

Answer: For web sites? No. For apps, that's a different story.



15:17:30 PDT

Question: There is foundation and I believe MVC5 and vnext do support foundation class names, I know intellisense does

Answer: IntelliSense does a great job with CSS classes.

15:17:51 PDT

Question: JQuery is a JavaScript library, just like Angular, Durandal etc. Bootstrap is CSS for formatting

Answer: On the whole, I agree. Although Bootstrap does contain some JavaScript functionality.

15:18:09 PDT

Question: no @html helper

Answer: There are a couple of projects that give you HtmlHelper extension methods for rendering Bootstrap'ed elements, but they are highly opinionated and you lose a lot of the flexibility of just using the HTML and CSS classes on their own.

15:18:15 PDT

Question: Thanks Chris I am going out of scope here...

Answer: No worries

15:18:58 PDT

Question: Well it is pretty much midnight where I live, kinda struggling with coffee to keep me awake It is still worth it though, you guys are great.

Answer: Thanks! We're trying to keep everyone awake!

15:19:10 PDT

Question: Hi from across Lake Washington. Thanks again!

Answer: Hi!

15:19:49 PDT

Question: The most complete alternative to bootstrap is Zurb foundation is there an extension to replace Bootstrap with another framework ?

Answer: No, no extensions per se. But watch what Jon is doing now with bundles...you can do the same with Zurb if you want to (but then, of course, you're losing the templating in the scaffolders).

15:20:03 PDT

Question: ok, has been great introduction. im off now. keep going!

Answer: Thanks!

15:20:50 PDT

Question: when i try to register a user, i get this error, no matter what i type in. Passwords must have at least one non letter or digit character.

Answer: It's saying the password you're using isn't complex enough.

15:21:21 PDT

Question: Thanks Christopher, but how is filtered data passed into the partial view? Like the sidebars on the demo (latest items, or a dynamic menu)?

Answer: When you call Html.Action() you can pass in parameters.

15:21:43 PDT

Question: I am covering a lot of these topics in 10-15 minute overviews, with posts coming daily until July 4. If anyone is interested you can follow along from here: <http://jameschambers.com/2014/06/day-0-boothstrapping-mvc-for-the-next-30-days/>

Answer: James has a lot of great stuff here!

15:22:32 PDT

Question: can you post that mvc blog link? thanks.

Answer: [link](#)



15:23:16 PDT

Question: BrowserLink is a tool available with Web Essentials right?

Answer: Free and part of VS2013

15:24:01 PDT

Question: Been here since the very beginning, but my brain is now fried. I'm gonna go, but thanks for doing this gentlemen!

Answer: Thank you!

15:24:25 PDT

Question: o/ @ James Chambers

Answer: Sorry...did I miss a question from you?

15:24:45 PDT

Question: Christopher, your link is a 404 error

Answer: Which link?

15:24:49 PDT

Question: I think I missed it but how did bootstrap get added to the project.

Answer: It's part of the default template, File->New->Project.

15:25:03 PDT

Question: wont it be slower to load the cdn stylesheets etc.?

Answer: Generally, no, as the CDNs have a good amount of bandwidth.

15:25:13 PDT

Question: LOL Hamburger Menu

Answer: Mmmmm.... Hamburgers

15:25:32 PDT

Question: This one: <http://events.microsoftvirtualacademy.com/www.rachelappel.com>

Answer: <http://www.rachelappel.com>

15:25:42 PDT

Question: Please post the link to Jon's blog

Answer: <http://weblogs.asp.net/jongalloway>

15:25:51 PDT

Question: Thank you for answering my question.

Answer: You're welcome

15:25:57 PDT

Question: hey christopher, link does not work.

Answer: Reposted

15:26:06 PDT

Question: 1:20 morning here in Saudi Arabia, struggling with my coffee too to keep me awake. you guys are really great!

Answer: Thanks!

15:26:31 PDT

Question: Thank you Christopher!

Answer: You're welcome



15:26:44 PDT

Question: Why is Site.cs for?

Answer: General CSS, not specific to Bootstrap

15:27:10 PDT

Question: Okay cool.. That was a Q i wanted to ask a LOOONG time ago..

Answer: Glad we could help!

15:27:20 PDT

Question: Why is Site.cs for?

Answer: Do you mean site.css? It is to help with a few of the styles, element positioning, etc.

15:27:27 PDT

Question: how do i retrieve my voucher? where do i get my voucher

Answer: It'll come around on the break slides

15:27:52 PDT

Question: Is browser link included in Visual Studio websites?

Answer: I'd have to stop to look. I believe so, but I generally use projects.

15:28:25 PDT

Question: I am eager to get this video recordings available.

Answer: They'll be available in 2 weeks

15:28:31 PDT

Question: It's awesome.

Answer: Thanks!

15:28:39 PDT

Question: @Bola - The voucher info is the the FAQ tab also

Answer: 😊

15:28:46 PDT

Question: Any particular reason(s) Bootstrap isn't being used on ASP.Net site?

Answer: I'm not sure.

15:29:22 PDT

Question: Thanks again Christopher!

Answer: Yu're welcome!

15:31:47 PDT

Question: The other thing about grids vs. HTML tables is accessibility: in the context of a screen reader, a table means, literally "a table of data", whereas, DIVs with row and column classes are still interpreted as important, navigatable sections of the page.

Answer: Great point! Thanks!

15:33:46 PDT

Question: This session was very very informative and the presentation style was very receptive! Appreciate your time and looking forward for more such sessions.

Answer: Thank you!

15:33:58 PDT

Question: Seems like the responsive top menu does not work on windows phone 8 ?

Answer: It will...but you need to include the JS or it won't work on smaller screen sizes. That is actually because of the Bootstrap approach to media queries and smaller screens. Can you ensure the JS for bootstrap is loaded?



15:34:30 PDT

Question: For instance 16, 18, or 20 columns?

Answer: You can, if you modify the LESS or SASS. The default is 12 cols and everything (all the sub classes) are calculated off of that.

15:36:09 PDT

Question: Does it support optional image download to minimize data down for mobile devices instead of just hiding them

Answer: Unfortunately, not really. You still have to do something on your own. There is a hacked solution here: <http://alistapart.com/article/mo-pixels-mo-problems> but I'm not aware of a great way to do this (without a JS preloader)

15:36:23 PDT

Question: Which shortcut did you use?

Answer: To get out of debug mode? Ctl-F5

15:37:10 PDT

Question: do we need to design each appearance or there is templates

Answer: There are a number of examples on the Bootstrap site, and most templates you'll download have many sample pages for you to build from.

15:37:23 PDT

Question: Is MVC practical for large databases? (i.e. thousands of table rows) ...am thinking LINQ could create smaller subsets, but that might break the overall structure.

Answer: MVC is the front end. You can use whatever backend technology you need. So if you need to write database code directly you can.

15:37:34 PDT

Question: You should perhaps also stress that col-lg inherits col-md which inherits col-sm which in turn inherits col-xs. I.e. if col-lg is not specified it will use the col-md settings

Answer: You just did. Thanks! 😊

15:40:20 PDT

Question: server-side pagination with MVC?

Answer: You can use a view model (to track page) and repository to make this easier. LINQ has Skip() and Take() methods you can leverage.

15:40:32 PDT

Question: where did u look this examples for controls?

Answer: Check out: getbootstrap.com

15:42:42 PDT

Question: I missed the link for the Glyphicons, could you put that link in the chat room?

Answer: they're all on getbootstrap.com

15:43:12 PDT

Question: Love Bootstrap!!

Answer: It's so very cool

15:43:18 PDT

Question: will this work if u add the class to a Paging DataControl in ASP.NET Web Forms?

Answer: No, unfortunately no, there's more needed for the structure of the document to make it work.

15:43:39 PDT

Question: Thank you Christopher

Answer: You're welcome!

15:44:08 PDT

Question: I wish Chris stopped interrupting Jon so many times. we could cover more.

Answer: Just trying to answer questions as well. 😊

15:44:22 PDT

Question: What is the last li ?

Answer: Skip to the end

15:44:30 PDT

Question: bootstraps looks nice way to customize view

Answer: It really is

15:44:48 PDT

Question: Thank you guys at Microsoft so much for this course. It really helped me a lot I'll watch the rest of it in two weeks...

Answer: Awesome!

15:46:07 PDT

Question: How do we use bootstrap to change the theme on the fly?

Answer: You can create different bundles with the different themes. If you're letting the user pick, save it in their profile and then resolve the correct bundle in the view (or, more likely, the layout).

15:46:59 PDT

Question: What about showing to update Bootstrap via Nuget to v.3.1.1 - since this demo is working with v3.0.0?

Answer: If they don't get a chance to do that, you can go into the Package Manager Console and type "Update-Package Bootstrap" to get the latest version.

15:49:01 PDT

Question: Well today course help to refresh MVC concepts and answers to lot of gray areas where i was confused.. Thank you guys for this awesome course!! It was really well organized .. I am hoping for many more!!

Answer: Thank you very much! Glad we were able to help!

15:49:19 PDT

Question: A question somewhat unimportant but... in ASP.NET MVC there is full support for VBScript?

Answer: VB - yes. VBScript, no

15:49:28 PDT

Question: It's amazing how modular MVC is, but surprisingly you are kinda stuck with bootstrap in terms of visualization (which you end up seeing). I think this was a great training, but the amount of bootstrap content was way too much given the basics we could only cover in the other parts. I hope this is seen as constructive feedback because the session was very good!!!! THANKS

Answer: You're not actually bound to Bootstrap in any way. There are two bundles that you need to change to pick a different UI altogether. The other thing to remember is that Bootstrap templates can be **very** diverse, don't look anything alike.

15:49:30 PDT

Question: one o'clock in Switzerland. Tomorrow I need to work Real nice explanation. Keep up! Goodbye.

Answer: Thank you!!

15:50:27 PDT

Question: Bootstrap looks awesome to me. Will definitely use it.

Answer: Awesome!



15:51:30 PDT

Question: Can you give more idea of bootstrap with AngularJS ?

Answer: Unfortunately, we're not going to have time

15:53:56 PDT

Question: Nice work with the VS intellisense for web dev. Keep up the good work!! These times savers without running really helps production...

Answer: Thanks!

15:54:49 PDT

Question: Bootstrap is awesome for prototyping UI, but please don't stick with the default CSS. We should encourage designers to work with it and make diverse Bootstrap based sites. Too many look too similar right now

Answer: Agreed. There are many free and many more inexpensive templates for Bootstrap. We don't want a web that looks all the same!

15:56:22 PDT

Question: where do you put your navigation menu so that you don't have to repeat it on every page? I used to use masterpages. Do we not do that anymore with MVC?

Answer: We don't, but have we do have Layouts, which is the same concept for MVC.

15:57:00 PDT

Question: Wasn't Javascript/AJAX/Partials in MVC taught in the previous Jump Start course?

<http://www.microsoftvirtualacademy.com/training-courses/developing-asp-net-mvc-4-web-applications-jump-start>

Answer: Unfortunately we only have so much time. We try to cover as much as we can.

15:57:56 PDT

Question: In the Models section there was a discussion on data validation. This is server-side validation, correct? Can the view do client-side validation?

Answer: It's both. The client side is handled by jQuery validation.

15:58:23 PDT

Question: wow.. this is a full day course!

Answer: Indeed. And we had to cut a lot.

15:58:56 PDT

Question: Thanks for a great presentation guys! 1am here! Great training, keep up the good work!

Answer: Thank you!

15:59:02 PDT

Question: End of day for me. This has been a a very informative presentation guys. Thanks so much.

Answer: Thank you!

15:59:09 PDT

Question: you guys are flipping awesome!

Answer: Thank you!

16:02:45 PDT

Question: Thank you guys, @Christopher ... I don't understand how you can chat and answer to Jon and do all of those things at the same time MultitaskKING!

Answer: We're doing our best! 😊

16:03:06 PDT

Question: Great Jump Start! Correct your breakSlide: "MVA - over 2M registered users" Greetings from Macedonia

Answer: 😊 I had to correct myself during the intros this morning as well.



16:03:32 PDT

Question: Sorry but I misunderstand something, in web forms when I needed to implement logic for events like onClick I did this in code behind file. Where I do it in MVC?

Answer: All of that goes into the actions.

16:03:50 PDT

Question: Thanks Jon, quite informative session on Bootstrap covering almost all the features.

Answer: He thanks you!

16:03:54 PDT

Question: Can you send that bootstrap link

Answer: Which one?

16:03:58 PDT

Question: I've been awake almost 24 hours.

Answer: Trooper!

16:04:27 PDT

Question: well it's intro to asp.net mvc so that also make it to cut a lot's of things as fitting to a full day

Answer: We could spend weeks on this stuff! Lots of great material to talk about.

16:04:42 PDT

Question: Yeah - course is great! Keep up the good work! Hopefully there will be a following-up (more deep dive) or something like that?

Answer: Thank you! We shall see what happens going forward.

16:04:54 PDT

Question: It passed so fast!

Answer: We try to keep things entertaining.

16:05:59 PDT

Question: I asked a question a while ago, that I don't think was answered, relating to EF performance compared with writing ADO.Net. Any links or advice to help me? thanks

Answer: I don't have any links directly available. At a high level, you can frequently peek out a little additional performance writing the queries directly. But, only for advanced scenarios is the investment going to be worth it.

16:06:06 PDT

Question: Christopher how do you add the emoticons?

Answer: I'm just doing 😊

16:06:26 PDT

Question: Bowing out in Dublin. Zzzzz time. Thanks for great presentation.

Answer: Thank you!

16:06:33 PDT

Question: I is appreciated! Thank you.

Answer: You're welcome!

16:06:45 PDT

Question: I still get the error when trying to register? Passwords must have at least one non letter or digit character. Have I done something Wrong?

Answer: Try to use P@ssw0rd (with a zero)



16:07:15 PDT

Question: Hmm ... I still wonder about ASP.NET MVC and why not opted for MVVM...

Answer: You can use MVVM here. MVVM is simply about creating view models. Sometimes that's not needed for simpler applications.

16:09:03 PDT

Question: What the heck, that worked!? but i already tried this code 1QAZxsw23edcvfr4, and that didn't work...

Answer: You needed a special character like a @ sign

16:09:31 PDT

Question: Well done on Bootstrap module. Very informative.

Answer: Thanks!

16:09:54 PDT

Question: I know Jon ... especially your hairs!!! Take your time dude!

Answer: His hair takes forever!

16:10:42 PDT

Question: Please quit fixing that hair now - heavy eyelids, here in DK.. and I won't miss the rest of the gr8 presentation!

Answer: Almost there!

16:11:52 PDT

Question: I'm in the same boat as Jon...there's no fixing that kind of hair problem, unfortunately!

Answer: 😊

16:11:57 PDT

Question: We need a Jump Start tutorial on fixing different types of hair.

Answer: Ha!!

16:12:12 PDT

Question: Christopher & Jon - appreciate your time and effort with this. Job well done.

Answer: Thank you!!

16:12:56 PDT

Question: I am in the same region you guys are. Having awesome day..

Answer: Awesome!

16:13:03 PDT

Question: Will you guys be doing more videos together? You make a good team.

Answer: Thank you!! We're hoping so!

16:13:17 PDT

Question: Thank you very much for the knowledge. I have to leave the presentation. Greetings from México.

Answer: Greetings! And congrats to your soccer/football team!

16:13:24 PDT

Question: it's too late by this session is too much interesting

Answer: Thank you!

16:13:34 PDT

Question: what technology is used for the Q&A session chat for this site??

Answer: I'm not sure. Maybe SignalR? Maybe?



16:13:49 PDT

Question: Harrison = Hair is on

Answer: Ha! Hair is all over the place. 😊

16:14:08 PDT

Question: Could you post the voucher code for MVA again?

Answer: It's on the FAQ page

16:14:14 PDT

Question: Thank you very much for the knowledge. I have to leave the presentation. Greetings from México.

Answer: Thank you!

16:14:29 PDT

Question: Is ASP Membership to Identity migration being covered?

Answer: We'll try to touch on that if we have time

16:14:44 PDT

Question: why unfortunately in you case you don't lose time behind the mirror in the morning

Answer: 😊

16:15:40 PDT

Question: It is very interesting, we are trying to incorporate in our blog, so curious to see. Thank you

Answer: At <http://blog.geektrainer.com/> I have a few posts on SignalR.

16:16:32 PDT

Question: What is new in ASP.Net 4.5.1? (I saw that on Visual Studio)

Answer: [http://msdn.microsoft.com/en-us/library/ms171868\(v=vs.110\).aspx](http://msdn.microsoft.com/en-us/library/ms171868(v=vs.110).aspx) Straight from the source

16:17:01 PDT

Question:

> *Quoted question:* Is ASP Membership to Identity migration being covered?

> *Quoted answer:* We'll try to touch on that if we have time

Answer: If they aren't able to get to it, check out the sample migration project from the Asp.Net team:

<https://aspnet.codeplex.com/SourceControl/latest#Samples/Identity/SimpleMembershipSchemeUpdateMigration/readme.txt>

16:19:56 PDT

Question: @James Chamber, Can you briefly comment if there an advantage using MVC with NOSQL vs MVC with traditional Relational Database. I ask because I don't want to dive to NOSQL learning if the traditional approach/historical suffice for most web apps. Thank you.

Answer: The storage mechanism you use should really be driven by your data requirements. Are you going to be reading lots of data, or writing more? Are you doing lots of queries? Unless you have drivers that indicate you should use a NoSQL source, I wouldn't use one, just as I wouldn't use a relational DB if I was storing documents. For most data-driven sites, MVC and EF work well together and all the tooling is set up to support the duo. Hope this helps.

16:20:26 PDT

Question: great session ... but we need to practice these topics when we be able to repeat it

Answer: In about 2 weeks the videos will be live

16:20:27 PDT

Question: Is there a quick way to move a project which uses sqlce simple membership to full sql?

Answer: The Asp.Net team has a migration sample here:

<https://aspnet.codeplex.com/SourceControl/latest#Samples/Identity/SimpleMembershipSchemeUpdateMigration/readme.txt>



16:21:38 PDT

Question: Wich is the best option when you need an administrator to give users accounts?

Answer: Depends on where you need to store them. Individual accounts can still be done, but you will need to create some code (or download it) to create administration pages.

16:21:44 PDT

Question: Cheers

Answer: Cheers!

16:21:53 PDT

Question: Thank you Christopher!

Answer: Yu're welcome!

16:21:54 PDT

Question: How would one implement single sign-on for individual user accounts?

Answer: SSO is a complex topic. Do you have an SSO provider? I have used 3rd party components before (such as PingIdentity), and implemented my own (yeesh, more complicated that I would have liked!).

16:22:35 PDT

Question: I know you can make Windows Store apps with HTML, can you do the same with ASP.NET?

Answer: It's a different set of JavaScript APIs, but a lot of the concepts/structure is the same.

16:23:25 PDT

Question: Forget about it then. I will just use Windows AD.

Answer: 🤔

16:23:31 PDT

Question: Thank you again Christopher!

Answer: You are very welcome!

16:24:45 PDT

Question: so ASP.NET Identity is available as a NuGet package?

Answer: Correct

16:26:05 PDT

Question: Is Identity 2.0 is built-in Visual Studio 2013?

Answer: You will need the update or you can update Identity version via Nuget.

16:27:48 PDT

Question: Install-Package Microsoft.AspNet.Identity.Core -Version 2.0.1 This is the syntax to install using Nuget package.

Answer: Indeed. You can also do it through the UI.

16:28:48 PDT

Question: Live events make me feel secure in my Noobiness Thanx guys!!!

Answer: See - we're really coding here!

16:32:31 PDT

Question: Where can i will find the recording of this session in 2 weeks?

Answer: Right here on mva.ms

16:38:28 PDT

Question: It's 2:30 am in Qatar and time to sleep will watch the recordings later

Answer: Sleep well!



16:39:00 PDT

Question: Did you mean Firesheep as a sniffing tool?

Answer: There was a specific script kiddie tool. I just can't remember the name of it.

16:39:49 PDT

Question: firesheep was the hijack plugin

Answer: Thank you!

16:42:33 PDT

Question: I created a blank ASP.NET and it does not allow me to view the website, why? (there is an error code: An unhandled exception was generated during the execution of the current web request. Information regarding the origin and location of the exception can be identified using the exception stack trace below.)

Answer: Hard to troubleshoot that from here. :-/

16:42:38 PDT

Question: does he need the s for https on the site url for the facebook app registration?

Answer: He got it

16:47:23 PDT

Question: the code is available for download?

Answer: It is: <http://aka.ms/mva-mvc-source>

16:47:35 PDT

Question: What was the address for tory hunt?

Answer: The Troy Hunt link was her: <http://www.troyhunt.com/2011/01/ssl-is-not-about-encryption.html>

16:47:42 PDT

Question: Can role be resolved from a database table entry?

Answer: It can be. You can customize as needed.

16:49:18 PDT

Question: Just downloaded vs2013 pro from dreamspark I think im gonna make that move.. does 70-486 cover mvc5?

Answer: It doesn't. However, there is a lot of overlap between the two versions.

16:49:34 PDT

Question: Spending 8 hours with Jon, doesn't gain you his trust apparently. lol

Answer: He's just a paranoid kind of guy. 😊

16:49:42 PDT

Question: thank you for this introduction to ASP. NET MVC, you are a great team, I have to say goodbye now (it's almost 3 in the morning in my time zone).

Answer: Thank you!

16:49:47 PDT

Question: 3 AM in the morning in Romania, I can't resist any more. Very useful lesson! Thank you guys!

Answer: Thank you!

16:51:28 PDT

Question: Christopher, I thought that roles were kind of hardcoded into the [Authorize(Roles="Admin")] attribute – is it possible to validate it against a list ?

Answer: You can write your own Authorization attributes that plug into the MVC pipeline and do the lookup based on DB lookup rather than static code.



16:53:53 PDT

Question: can you use Two-Factor Authentication with 3rd party authentication?

Answer: Yes, or write your own: Check out Scott Hanselman's blog:

<http://www.hanselman.com/blog/AddingTwoFactorAuthenticationToAnASPNETApplication.aspx>

16:54:35 PDT

Question: Thanks James - any sample so we may take a look?

Answer: Watch my blog! I'll put it into my 30 days series 😊

16:55:32 PDT

Question: Thanks James - any sample so we may take a look?

Answer: Also, check out this earlier post I did: <http://jameschambers.com/2013/11/working-with-iauthenticationfilter-in-the-mvc-5-framework/>

17:00:17 PDT

Question: Is it a good idea to get certified in programming languages (ex: certified in HTML)

Answer: It's always important to learn. Credentials prove to potential employers that you do.

17:03:05 PDT

Question: Thank you guys, you were terrific!

Answer: Thank you very much!

17:03:35 PDT

Question: Not sure if I received a reply to my question, but can I change the authentication method after choosing one during the initial setup?

Answer: You can change as needed.
