- 1CECS 475 STUDY GUIDE FOR FINAL
 - add to it where needed ;-)
- 1. Review the concepts and basic code from the Get Started with ASP.NET Web API 2 (C#) in week 12
- 2. Codelab6

Understand the POST, GET, PUT, and DELETE method used in the Web API What is Postman? (check documentation)

- 3. Passing data in MVC (word) in week 12
- 4. Redirection in MVC in week 12

Using tempdata.

- 5. Code lab 5 Get started with ASP.NET Core MVC
 - a. How to call an action method using URL
 - b. How to pass a model object from a controller to a view
 - c. In a view, how do you obtain data from model object passing to a view? (for lab 5 there were tons of different links beware)
- 6. Review codelab8

(open the file, it has step by step instructions for this one)

How to create a DbContext class

How to inject DbContext objects into a controller

Coding in the Home controller and the Movie controller

Scripting in Home/Index view, Movie/Edit view, Movie/Delete view

7. Review the document Web Services pdf in week 10

Concepts in equation generator – creating and consuming the REST-based XML equationGenerator web service

to make the AJAX calls and also to update the page with results.) AJAX **JOSON** getJSON jQuery 82. @model Movie string title = ViewBag.Action + " Movie"; ViewBag.Title = title; <h2>@title</h2> <form asp-action="Edit" method="post"> <div asp-validation-summary="A11" class="text-danger"></div> <div class="form-group"> 8. Review codelab4 Step by step instructions How to invoke the web service and parse the results with XDocument

9. Codelab7

Link to pdf

How to call the API, and turn the response into an instance.

How to represent the JSON result to a view

10. Review the video "Advanced ASP.NET Core: Unit Testing" in week 13

Watch chapter 1 (Get Started with Unit Testing) and chapter 2 (Console Applications) InlineData, MemberData, and ClassData

11. Review "Basic Unit testing" and understand the exercise 1 only (tasks 1 to 4) in week 15 AAA?

Categories does the Test Explorer organize into

Requirements to create a test method

12. Dependency Injection (Constructor) in week 15

	Use	to make the A	JAX calls and	also to up	date the pa	ge with results
	○ AJAX					
	OJOSON					
	O cot ISON					
	getJSON					
	jQuery					
82.	O 7 4 7					
0 2.	@model Movie					
	@{					
	string title = View ViewBag.Title =	wBag.Action + " N	Movie";			
	}	uue,				
	<h2>@title</h2>					
	<form a1<="" asp-action=".</td><td></td><td></td><td></td><td></td><td></td></tr><tr><th></th><td></td><td>on-summary=" td=""><td>l" class="text-dar</td><td>iger"></td><td></td><td></td></form>	l" class="text-dar	iger">			
	<div class="form</td><td>i-group"></div>					

Questions anybody needs help with... GL x3

- TF: Once you've coded your DbContext class and your entity to injectclasses, you can tell EF to translates then into a database, With Windows, you can use Visual Studio to do that by executing two commands in the Package Manager Console (PMC) window.
 - a. This is literally not in the notes like what
 - b. I believe it is true + 1
 - c. (believing it although the wrong part may be the "two commands" part) Yeah i think its only one command.
 - d. Ayo, so is it true or false? Im lost lol same f it, ima go with

	Use	_ to make the AJAX calls and also to update the page with results.
	AJAX	
	OJOSON	
	getJSON	
82	jQuery	
02	@model Movie @{ string title = V ViewBag.Title } <h2>@title</h2> <form asp-action<="" th=""><th>"Edit" method="post"> tion-summary="All" class="text-danger"></th></form>	"Edit" method="post"> tion-summary="All" class="text-danger">
	f.	

	Use	_ to make the AJAX calls and also to update the page with results.
	AJAX	
	OJOSON	
	getJSON	
82.	jQuery	
6.	@model Movie @{ string title = Vi ViewBag.Title } <h2>@title</h2> <form asp-action="</th"><th>="Edit" method="post"> stion-summary="A11" class="text-danger"></th></form>	="Edit" method="post"> stion-summary="A11" class="text-danger">
-	the Edit() action	iew in the codelab 8 below, Click the submit button will post the form to method of the controller. (Fill in a blank)) i think so too? Anyone else? Think so too
8.	•	can invoke only those methods of a web service that
		vith the ServiceContract attribute.
		1 (refer to other instance of the question, they found
	false?)	
	b. False	

- 10. When we want to pass some data to our unit testing method, then we use theory.
 - a. True +1+1+1
 - b. False

Use	to make the AJAX calls and also to update the page with results.
○ AJA	AX
Olo	SON
get	JSON
● jQu	uery
ViewB } <h2>@ti <form as<br=""><div a<="" td=""><td>title = ViewBag.Action + " Movie"; ag.Title = title;</td></div></form></h2>	title = ViewBag.Action + " Movie"; ag.Title = title;
11. Serializate and a clie	tion transforms an object into a format that can be sent between a web service ent. $T + 1+1/F$ Serialization transforms an object into a format that can be sent a web service and a client.
13. In the o	codelab7, you call the web API by using the method getAsync rue +1+1 alse
14. In the o Framev a. T	
15. In the Frame ^e a. T	codelab6 you select API Controller with actions, using Entity
C.	 In the Add API Controller with actions, using Entity Framework dialog:
16. The AS	SP.NET Web API serializes the returned data to InlineData Sinary Ittp

	Use to make the AJAX calls and also to update the page with results.
	AJAX
	JOSON
	getJSON
	jQuery
82.	@model Movie @{ string title = ViewBag.Action + " Movie"; ViewBag.Title = title; }
	<h2>@title</h2> <form asp-action="Edit" method="post"></form>
	d. JSON +3 someone check me on that
17.	Complete the code in the action method Index() from a StoreController by filling in a blank.
	public ActionResult Index()
18.	is a dictionary object which requires typecasting as well
19.	as null checks. ANS: ViewData (someone confirm)+1 yup In the codelab7, you call the web API using the method getAsync: I think it is true In the codelab7, you call the web API by using the method getAsync.
	☐ True
	False
20.	The "ClassData" does the same as "MemberData" in xUnit testing, but you can return your data in a seperate class and inherit the IEnumberable <object[]>. a. True +2+1</object[]>
	b. False
21.	You can include multiple "InlineData" attributes per method in xUnit testing. a. True (True right? Yes very true) + 1 (yea saw it everywhere on vid +1)
22.	b. False
	The test method in a unit test must return void

to make the AJAX calls and also to update the page with results.) AJAX **JOSON** getJSON jQuery 82. @model Movie string title = ViewBag.Action + " Movie"; ViewBag.Title = title; <h2>@title</h2> <form asp-action="Edit" method="post"> <div asp-validation-summary="A11" class="text-danger"></div> <div class="form-group"> a. True (true i think) +3 link: https://stackoverflow.com/questions/49298504/why-should-any-unit-test-methodin-c-sharp-be-void-and-why-are-other-return-type (DEFINITELY TRUE): A test method must meet the following requirements: It's decorated with the [TestMethod] attribute. It returns void. It cannot have parameters. (from documentation walkthrough: create and run unit tests) b. False (i think false..) +1 () 24. Which of the following isn't true for a Web API service. a. It relies on HTTP and URLs. Json

- - b. It can be consumed by a client on any platform. (if this is browsers, then true)
 - c. It can return data in JSON format. True answer
 - d. It uses HTML to transfer data between host and client. (I think, from google says xml instead of html but all other ones are true, someone confirm) (+1 agree)

Use ______ to make the AJAX calls and also to update the page with results.

AJAX

JOSON

getJSON

@model Movie
@{
string title = ViewBag.Action + " Movie";
ViewBag.Title = title;
}
https://div>cdiv.asp-validation-summary="All" class="text-danger"></div>cdiv.asp-validation-summary="All" class="text-danger"></div>cdiv.asp-validation-summary="All" class="text-danger"></div>cdiv.asp-validation-summary="All" class="text-danger"></div>cdiv.asp-validation-summary="All" class="text-danger"></div>cdiv.asp-validation-summary="All" class="text-danger"></div>

- 25. The "MemberData" attribute in xUnit testing allows you to return your parameter data from a method by returning an IEnumberable<object[]>.
 - a. True +1from notes
 - b. False
- 26. In the codelab8, the function Edit(Movie movie) should have an attribute HttpGet. ?? False, its httppost
- 27. A connection string contains information that an app need to connect to a database. For Core MVC application, you store a connection string in the appsettings.json file.

True Someone check me on this. +2+1

- 28. JsonConvert.DeserializeObject() call converts JSON response in string form to C# class instance. True +3
- 29. In the codelab8, the constructor uses Dependency Injection to inject the database context (MovieContext) into the controller

True ??

False??

30.

<div class="form-group"> 31. the controller.

T/F (true I think) + 1

- https://docs.microsoft.com/en-us/aspnet/core/tutorials/first-mvc-app/addin
- g-model?view=aspnetcore-6.0&tabs=visual-studio
 Someone confirm with this please? This is what i found TRUE? Yeah True
- 32. A Web API service uses a routing framework to send HTTP requests to the appropriate

<div asp-validation-summary="All" class="text-danger"></div>

- a. Controller +1 someone check for me + 1 "It routes an incoming HTTP request to a particular action method on a Web API controller." Web API Routing (tutorialsteacher.com)
- b. Viewweb API
- c. Model
- d. Interface
- 33. The "member data" attriubute in xUnit testing allows you to return your parameter data from a method by returning an IEnumerable<object[]>
 - a. True
 - b. False
- 34. ModelState.IsValid will check if the constraints on the model properties are met. True + 1+1

	Use to make the AJAX calls and also to update the page with results.
	AJAX
	JOSON
	getJSON
00	jQuery
82.	<pre>@model Movie @{ string title = ViewBag.Action + " Movie"; ViewBag.Title = title; } <h2>@title</h2> <form asp-action="Edit" method="post"></form></pre>
35.	<pre><div asp-validation-summary="All" class="text-danger"></div> <div class="form-group"> Within the DbContext class, you can use DbSet properties to work with the model classes that map to database tables. These classes are also known as entity classes, or domain model classes.</div></pre>
	a. True - in notes + 1 (code lab 8)
36.	Use Postman to create web API. False? does postman just test web apis?
	I see test as well Same I see test
	https://www.postman.com/product/what-is-postman/ maybe true
	I also think it's true +2
37.	To return data in JSON format from a REST-based web service, the property of WebGet attribute is set to
	WebMesssageFormat.Json. (help:,)
	a. ResponseFormat +2
	b. FormatResponse
	Format
	c. Respsonse
38.	Instead of loading all the data using the in-line attribute for a unit
	testing method, you can load them from a method or a property using the MemberData. I Put True(not sure) a. True +3
	5 <u></u> 5

b. False

```
//
    // GET: /Store/

public ActionResult Index()
{
    var genres = new List<String> { "Rock", "Jazz", "Country", "Pop", "Disco" };

    var viewModel = new StoreIndexViewModel
    {
        NumberOfGenres = genres.Count(),
        Genres = genres
    };

    return View(viewModel);
d. }

put the Edit view in the codelah & helow Click the submit button will nost the form to the Edit().
```

40. Given the Edit view in the codelab 8 below, Click the submit button will post the form to the Edit() action method for POST request.

	Use to make the AJAX calls and also to update the page with results.	
	AJAX	
	JOSON	
	getJSON	
82.	• jQuery	
02 .	@model Movie @{ string title = ViewBag.Action + " Movie"; ViewBag.Title = title; } <h2>@title</h2> <form asp-action="Edit" method="post"> <div asp-validation-summary="All" class="text-danger"></div> <div class="form-group"> True (true i think) guessing this too. This chunk of code is used for edit in the codelab: "22. Add a</div></form>	
new vie	w named Edit to the Views/Movie folder (Select Razor View Empty). Then, modify this view so it	
	s the code shown below."	
	False	
41.	The Injection in C# ensures that all the dependency objects are initialized before we are going to invoke any methods or properties of the dependency object, as a result, it avoids the null reference exceptions a. Constructor	
	The Constructor Dependency Injection in C# is the standard for dependency injection. It ensures that dependency objects are initialized before we are going to invoke any methods or properties of the dependency object, as a result, it avoids the null reference exceptions.	
42.	Once you've coded your DbContext class and your entity classes, you can tell EF to translates then into a database, With Windows,	
	you can use Visual Studio to do that by executing two commands in the Package Manager Console (PMC) window. True (True?) False	
43. 44. 45.	Object dependency means one object needs another object to execute properly. a. True +1 + 1 +1 + 1 b. False	

82.

```
@model Movie
@{
    string title = ViewBag.Action + " Movie";
    ViewBag.Title = title;
}
<h2>@title</h2>
<form asp-action="Edit" method="post">
    <div asp-validation-summary="All" class="text-danger"></div>
    <div class="form-group">
```

- 46. Core MVC use dependency injection to pass DbContext objects to the controllers that need them. To enable this, you can add code to the Startup.cs file
 - a. True from notes
- 47. The code below is used to access the Flickr web service. Complete the code by filling in a blank.
 - a. DownloadStringTaskAsync (from what i found this is the only valid method to be called on a "WebClient" object. Source:
 https://docs.microsoft.com/en-us/dotnet/api/system.net.webclient?view=net-6.0
 +1
- 48. In the codelab8, the function Edit(Movie movie) should have an attribute HttpGet.
 - a. False

 [HttpPost]

 public IActionResult Edit(Movie movie)

 {
 b. :6 (NA = 1 = 10 + 4 = 1 = 10 + 4 = 1 = 10 + 4 = 10 +
- 49. Dependency injection is a design pattern in which the services an object needs are passed to it rather than being hard coded as part of object. T/F

I think its true? +2

to make the AJAX calls and also to update the page with results.) AJAX **JOSON** getJSON jQuery 82. @model Movie string title = ViewBag.Action + " Movie"; ViewBag.Title = title; <h2>@title</h2> <form asp-action="Edit" method="post"> <div asp-validation-summary="A11" class="text-danger"></div> <div class="form-group">

50. A Web API service uses a routing framework to send HTTP requests to the appropriate

Controller (from google)

- 51. The most common pattern for writing unit test is called AAA. What does AAA stand for?
 - a. Arrange act and assert +1https://freecontent.manning.com/making-better-unit-tests-part-1-the-aaa-pattern/
- **52**. Complete the code below to display the view above by filling a blank. function edit
 - a. https://docs.microsoft.com/en-us/aspnet/mvc/overview/older-versions/hands-on-la <u>bs/aspnet-mvc-4-fundamentals</u>? maybe from this im looking still @Model - someone confirm please +1
 - b. Think @model too, its like the same syntax, and if its calling model genres then could be
- 53. We can easily add validation to an ASP.NET application by adding Data Annotations to the model classes. True, verify plz +1
 - a. True +1

https://docs.microsoft.com/en-us/aspnet/mvc/overview/olde r-versions/mvc-music-store/mvc-music-store-part-6#:~:text =We%20can%20easily%20add%20validation,appropriate%2 Omessages%20to%20our%20users.

b. False

	Use to make the AJAX calls and also to update the page with results.
	○ AJAX
	JOSON
	getJSON
82.	• jQuery
0 Ζ.	@model Movie @{ string title = ViewBag.Action + " Movie"; ViewBag.Title = title; } <h2>@title</h2>
54.	<pre><form asp-action="Edit" method="post"></form></pre>
	a. T +0.5 https://stackoverflow.com/questions/57413075/where-to-register-the-context-with-dependency-injection
56.	The "MemberData" attribute in xUnit testing allows you to return your parameter data from a method by returning an IEnumberable <object[]>. true</object[]>
57. 58.	Use HtmlHelper class in razor view instead of writing html tags
	manually. a. True +1 Someone check me on that +1 b. False
59. 60. 61.	D. I dise
62.	Use to call the web API. a. getJSON b. JSON
	c. AJAX +2? Unsure how did you get AJAX? Is this verified? d. jQuery
	Use to make the AJAX calls and also to update the page with results.

	Use	to make the AJAX calls and also to update the page with results.
	AJAX	
	OJOSON	
	getJSON	
82.	jQuery	
02.	ViewBag.Title = } <h2>@title</h2> <form asp-action="</td"><td>"Edit" method="post"> ion-summary="A11" class="text-danger"></td></form>	"Edit" method="post"> ion-summary="A11" class="text-danger">
		orrect ans? jQuery +2
64.		name is Phuong Nguyen, (Select true)
00.		an someone verify?) +1 kek False +6
66.		
67.		can be used to maintain data between controller
i		ell as redirects.
00	a. TempD	ata +2
68.	a.	
1	Assume the met // GET: /Store/Depublic string Det	
	return message;	= "Store.Details, ID = " + id;
]	method and pass a. I thnk its	the host server is http://localhost:50103/ . The URL to call the Details 12 to the method is localhost:50103/store/data/12 but not quite sure since the comment
	•	e/data/5 as example
	b. There is i	no store/data/12 lol you meant store/details/12 ?shit yea that

	Use	to make the AJAX calls and also to update the page with results.
	AJAX	
	OJOSON	
	getJSO1	N
82.	jQuery	
02.	@model Movie @{ string title = ViewBag.Tit	ViewBag.Action + " Movie";
	<div asp-val<="" th=""><th>2> on="Edit" method="post"> idation-summary="A11" class="text-danger"></th></div> form-group"> Slightly resembles this	2> on="Edit" method="post"> idation-summary="A11" class="text-danger">
	ii.	https://stackoverflow.com/questions/23403912/c-sharp-web-localhostport-works-127-0-0-1port-doesnt-work, +0.5 "Ok, I've used my own Google APIs Console and created a new Project with a new Client ID. I've added both the http://localhost:54408/Account/ExternalLoginCallback and
	iii.	http:127.0.0.1:54408/Account/ExternalLoginCallback to the redirect-urls. Then in my C# web project's App_Start/AuthConfig.cs I've changed the Client settings to use this new client." https://docs.microsoft.com/en-us/aspnet/mvc/overview/older-versions/
70.		hands-on-labs/aspnet-mvc-4-fundamentals the actual code is here ollowing viewModel object is passed to a view.
	a.	
		Model
) viewModel
		@Model
	h	@viewModel
71.	b. c. whats	the answer? @Model +1

	Use	_ to make the AJAX calls and also to update the page with results.
	AJAX	
	OJOSON	
	getJSON	
82.	jQuery	
	ViewBag.Title } <h2>@title</h2> <form asp-action="</th"><th>="Edit" method="post"> ation-summary="All" class="text-danger"></th></form>	="Edit" method="post"> ation-summary="All" class="text-danger">
72.	In the codelab7, yo	ou create a Uri object for the "https://www.metaweather.com/" in
73. 74.	a. Startup.	cs + 1
75.	and <i>ViewBag</i> ar	taintain state between a <i>Controller</i> and corresponding <i>View-ViewData</i> to the available options but both of these options are limited to a single ning it's value will be null if a redirect occurs) [+1]

76.77. The "InlineData" attribute in xUnit testing allows you

	Jse to make the AJAX calls and also to update the page with results.
	AJAX
	JOSON
	getJSON
	O 8000011
	jQuery
82.	
	model Movie
	of tring title = ViewBag.Action + " Movie";
	ViewBag.Title = title;
	h2>@title
	form asp-action="Edit" method="post">
	<div asp-validation-summary="All" class="text-danger"></div> <div class="form-group"></div>
78 rr	y with each index representing a parameter in the method. True or False?

a. True + 2

	Use to make the AJAX calls and also to update the page with results.			
	AJAX			
	JOSON			
	getJSON			
82.	• jQuery			
	<pre>@model Movie @{ string title = ViewBag.Action + " Movie"; ViewBag.Title = title; } <h2>@title</h2> <form asp-action="Edit" method="post"> <div asp-validation-summary="All" class="text-danger"></div> <div class="form-group"></div></form></pre>			
79.	The following code is used to create a database context called myDbContext and a			
	The following code is used to create a database context called myDbContext and a DBSet property called myItem. The EF uses an entity class named Inventory to create a database table. Complete the code by filling in a blank.			
	<pre>using Microsoft.EntityFrameworkCore; using Mvc1.Models;</pre>			
	<pre>namespace Mvc1.Data {</pre>			
	<pre>public class myDbContext: DbContext {</pre>			
	<pre>public MvcMovieContext (DbContextOptions<> options)</pre>			
	{ }			
	<pre>public DbSet<inventory> myItem { get; set; } } </inventory></pre>			
	☐ DbContext			
	Inventory			
	MovieContext			
	myDbContext			

	Use	to make the AJAX calls and also to update the page with results.	
82.	○ AJAX		
	OJOSON		
	getJSON		
	jQuery		
	ViewBag.Title = } <h2>@title</h2> <form <="" <div="" asp-action="<div" asp-validat="" class="form" th=""><th>"Edit" method="post"> tion-summary="All" class="text-danger"></th><th>re</th></form>	"Edit" method="post"> tion-summary="All" class="text-danger">	re

- a. https://docs.microsoft.com/en-us/aspnet/core/data/ef-mvc/intro?view=aspnetcore-6.0
- b. This one is myDbContext all other DbContextOptions<...> have the name of the class in those <>
- 80. The following code is used to create a database context called myDbContext and a
- 81. A client app can invoke only those methods of a web service that are tagged with the ServiceContract attribute.

False

https://home.csulb.edu/~pnguyen/cecs475/pdf/cshtp5_30.pdf

(page 27) (need confirmation bc this book says that it's operationContract, not service contract) i would trust the book but i don't know how the other person got true then

https://www.c-sharpcorner.com/UploadFile/81a718/wcf-service-contract-and-operation-contracts/

 $\underline{\text{https://www.c-sharpcorner.com/UploadFile/87b416/various-types-of-wcf-contract}} \underline{\text{s/}}$

I'm not sure if they can be used in the same context. Looking at this it looks like they can? I need confirmation.

Use ______ to make the AJAX calls and also to update the page with results.

AJAX

JOSON

getJSON

jQuery

82.

@model Movie
@{
string title = ViewBag.Action + " Movie";
ViewBag.Title = title;
}
/div asp-validation-summary="All" class="text-danger"></div>
/div>

S S