# MVC Interview Questions And Answers Guide.

# MVC Job Interview Preparation Guide.

**Question # 1**

Suppose that if i want to open a contacts view, i should call contactsController.view(id), or what have you, which would then open the view for me. correct?

**Answer:-**

What do you mean open? explain more..

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**Question # 2**

What are the 3 main components of an ASP.NET MVC application?

**Answer:-**

1. M - Model
2. V - View
3. C - Controller

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**Question # 3**

Is it possible to combine ASP.NET webforms and ASP.MVC and develop a single web application?

**Answer:-**

Yes, it is possible to combine ASP.NET webforms and ASP.MVC and develop a single web application.

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**Question # 4**

What are the advantages of ASP.NET MVC?

**Answer:-**

1. Extensive support for TDD. With asp.net MVC, views can also be very easily unit tested.
2. Complex applications can be easily managed
3. Seperation of concerns. Different aspects of the application can be divided into Model, View and Controller.
4. ASP.NET MVC views are light weight, as they donot use viewstate.

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**Question # 5**

What is the role of a controller in an MVC application?

**Answer:-**

The controller responds to user interactions, with the application, by selecting the action method to execute and alse selecting the view to render.

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**Question # 6**

What is the adavantage of using ASP.NET routing?

**Answer:-**

In an ASP.NET web application that does not make use of routing, an incoming browser request should map to a physical file. If the file does not exist, we get page not found error.
An ASP.NET web application that does make use of routing, makes use of URLs that do not have to map to specific files in a Web site. Because the URL does not have to map to a file, you can use URLs that are descriptive of the user's action and therefore are more easily understood by users.

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**Question # 7**

Is the following route definition a valid route definition?

**Answer:-**

{controller}{action}/{id}
No, the above definition is not a valid route definition, because there is no literal value or delimiter between the placeholders. Therefore, routing cannot determine where to separate the value for the controller placeholder from the value for the action placeholder.

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### Question # 8

What type of filter does OutputCacheAttribute class represents?

**Answer:-**

Result Filter

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### Question # 9

What symbol would you use to denote, the start of a code block in razor views?

**Answer:-**

@ symbol

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### Question # 10

In razor syntax, what is the escape sequence character for @ symbol?

**Answer:-**

The escape sequence character for @ symbol, is another @ symbol

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### Question # 11

What are the file extensions for razor views?

**Answer:-**

1. .cshtml - If the programming lanugaue is C#
2. .vbhtml - If the programming lanugaue is VB

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### Question # 12

What is Model View Controller (MVC)?

**Answer:-**

Modelâ€"Viewâ€"Controller (MVC) is a design pattern in which "the user input, the modeling of the external world, and the visual feedback to the user are explicitly separated and handled by three types of object." The model consists of data and business rules, and the controller mediates the communication between the model and the user. A view can be any visual element such as a printout or a web page. Multiple views of the same data are possible, such as a pie chart for management and a spreadsheet for accountants.

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### Question # 13

What is best way to get a reference to the viewport from anywhere in the code?

**Answer:-**

I would use refs config to set a reference on the Application/Controllers

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### Question # 14

What does Model, View and Controller represent in an MVC application?

**Answer:-**

Model: Model represents the application data domain. In short the applications business logic is contained with in the model.
View: Views represent the user interface, with which the end users interact. In short the all the user interface logic is contained with in the UI.
Controller: Controller is the component that responds to user actions. Based on the user actions, the respective controller, work with the model, and selects a view to render that displays the user interface. The user input logic is contained with in the controller.

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### Question # 15

What is the significance of NonActionAttribute?

**Answer:-**

In general, all public methods of a controller class are treated as action methods. If you want prevent this default behaviour, just decorate the public method with NonActionAttribute.

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### Question # 16

Give an example for Authorization filters in an asp.net mvc application?

**Answer:-**

1. RequireHttpsAttribute
2. AuthorizeAttribute

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## **Question # 17**

What are the 2 popular asp.net mvc view engines?

**Answer:-**

1. Razor
2. .aspx

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## **Question # 18**

When using aspx view engine, to have a consistent look and feel, across all pages of the application, we can make use of asp.net master pages. What is asp.net master pages equivalent, when using razor views?

**Answer:-**

To have a consistent look and feel when using razor views, we can make use of layout pages. Layout pages, reside in the shared folder, and are named as _Layout.cshtml

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## **Question # 19**

What are sections?

**Answer:-**

Layout pages, can define sections, which can then be overriden by specific views making use of the layout. Defining and overriding sections is optional.

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## **Question # 20**

How to run an app in a page with existing content? (no viewport i am guessing, but what else do i need to know?)

**Answer:-**

There are no requirements.. if you want to use a Viewport you can! If you want to render components into divs... you can do that aswell.

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## **Question # 21**

How do you handle variable number of segments in a route definition?

**Answer:-**

Use a route with a catch-all parameter. An example is shown below. * is referred to as catch-all parameter.
controller/{action}/{*parametervalues}

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## **Question # 22**

Is it possible to create a custom filter?

**Answer:-**

Yes

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## **Question # 23**

When using razor views, do you have to take any special steps to proctect your asp.net mvc application from cross site scripting (XSS) attacks?

**Answer:-**

No, by default content emitted using a @ block is automatically HTML encoded to protect from cross site scripting (XSS) attacks.

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## **Question # 24**

Is it possible to unit test an MVC application without running the controllers in an ASP.NET process?

**Answer:-**

Yes, all the features in an asp.net MVC application are interface based and hence mocking is much easier. So, we don't have to run the controllers in an ASP.NET process for unit testing.

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## **Question # 25**

Where are the routing rules defined in an asp.net MVC application?

**Answer:-**

In Application_Start event in Global.asax

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**Question # 26**

Name a few different return types of a controller action method?

**Answer:-**

The following are just a few return types of a controller action method. In general an action method can return an instance of a any class that derives from ActionResult class.
1. ViewResult
2. JavaScriptResult
3. RedirectResult
4. ContentResult
5. JsonResult

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**Question # 27**

ASP.NET MVC application, makes use of settings at 2 places for routing to work correctly. What are these 2 places?

**Answer:-**

1. Web.Config File : ASP.NET routing has to be enabled here.
2. Global.asax File : The Route table is created in the application Start event handler, of the Global.asax file.

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**Question # 28**

What are the 3 things that are needed to specify a route?

**Answer:-**

1. URL Pattern - You can include placeholders in a URL pattern so that variable data can be passed to the request handler without requiring a query string.
2. Handler - The handler can be a physical file such as an .aspx file or a controller class.
3. Name for the Route - Name is optional.

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**Question # 29**

What is the use of action filters in an MVC application?

**Answer:-**

Action Filters allow us to add pre-action and post-action behavior to controller action methods.

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**Question # 30**

What are the levels at which filters can be applied in an asp.net mvc application?

**Answer:-**

1. Action Method
2. Controller
3. Application

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**Question # 31**

What symbol would you use to denote, the start of a code block in aspx views?

**Answer:-**

<%= %>

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**Question # 32**

How to use model validation rules with a form?

**Answer:-**

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**Question # 33**

In which assembly is the MVC framework defined?

**Answer:-**

System.Web.Mvc

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**Question # 34**

What is the greatest advantage of using asp.net mvc over asp.net webforms?

**Answer:-**

It is difficult to unit test UI with webforms, where views in mvc can be very easily unit tested.

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**Question # 35**

What are the 3 segments of the default route, that is present in an ASP.NET MVC application?

**Answer:-**

1st Segment - Controller Name
2nd Segment - Action Method Name
3rd Segment - Parameter that is passed to the action method

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**Question # 36**

What is the difference between adding routes, to a webforms application and to an mvc application?

**Answer:-**

To add routes to a webforms application, we use MapPageRoute() method of the RouteCollection class, where as to add routes to an MVC application we use MapRoute() method.

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**Question # 37**

If I have multiple filters impleted, what is the order in which these filters get executed?

**Answer:-**

1. Authorization filters
2. Action filters
3. Response filters
4. Exception filters

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**Question # 38**

Which filter executes first in an asp.net mvc application?

**Answer:-**

Authorization filter

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**Question # 39**

What filters are executed in the end?

**Answer:-**

Exception Filters

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**Question # 40**

How do you specify comments using razor syntax?

**Answer:-**

Razor syntax makes use of @* to indicate the begining of a comment and *@ to indicate the end. An example is shown below.
@* This is a Comment *@

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**Question # 41**

Tell me in other mvc systems, the rule is fat models, skinny controllers. ie the business logic goes in the models and all controllers do is load/save models and load/kill views. is this the extjs way?

**Answer:-**

What MVC are you using? Views are for presenting the data from a Model. Model is just a representation of data. Controllers should be what controls you app like telling your view to display this model.

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**Question # 42**

Is it possible to share a view across multiple controllers?

**Answer:-**

Yes, put the view into the shared folder. This will automatically make the view available across multiple controllers.

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**Question # 43**

What is the significance of ASP.NET routing?

**Answer:-**

ASP.NET MVC uses ASP.NET routing, to map incoming browser requests to controller action methods. ASP.NET Routing makes use of route table. Route table is created when your web application first starts. The route table is present in the Global.asax file.

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**Question # 44**

What is the use of the following default route?

**Answer:-**

{resource}.axd/{*pathInfo}
This route definition, prevent requests for the Web resource files such as WebResource.axd or ScriptResource.axd from being passed to a controller.

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**Question # 45**

What are the 2 ways of adding constraints to a route?

**Answer:-**

1. Use regular expressions
2. Use an object that implements IRouteConstraint interface

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**Question # 46**

Give 2 examples for scenarios when routing is not applied?

**Answer:-**

1. A Physical File is Found that Matches the URL Pattern - This default behaviour can be overriden by setting the RouteExistingFiles property of the RouteCollection object to true.
2. Routing Is Explicitly Disabled for a URL Pattern - Use the RouteCollection.Ignore() method to prevent routing from handling certain requests.

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**Question # 47**

What are the different types of filters, in an asp.net mvc application?

**Answer:-**

1. Authorization filters
2. Action filters
3. Result filters
4. Exception filters

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**Question # 48**

Is it possible to cancel filter execution?

**Answer:-**

Yes

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