

Programming Microsoft ASP.NET MVC

Chapter 03: The model-binding architecture

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Q1. Which distinct type model describes the data in the presentation layer?

- A. domain model
- B. view model
- C. input model
- D. Data Transfer Object (DTO)

Answer: B

Q2. Which distinct type model describes the data in the business layer?

- A. domain model
- B. view model
- C. input model
- D. Data Transfer Object (DTO)

Answer: A

Q3. Through which distinct type model the posted data is exposed to controllers and subsequently received by the application?

- A. domain model
- B. view model
- C. input model
- D. Data Transfer Object (DTO)

Answer: C

Q4. Which distinct type model defines the DTOs the application uses to receive data from input forms?

- A. domain model
- B. view model
- C. input model
- D. Data Contract

Answer: C

Q5. Which type of model do you use to pass input data to a controller?

- A. domain model
- B. view model
- C. input model
- D. Data Transfer Object (DTO)

Answer: C

Q6. Which component in ASP.NET MVC maps the raw request data from any value providers to properties of input model classes?

- A. Model
- B. View
- C. Model Binder
- D. View Engine

Answer: B

Q7. How many types of models you use in ASP.NET MVC applications for various purposes?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: C

[domain model for entities in business layer, view model for representation of data in presentation layer, input model-for exposing data input to controller]

Q8. Which type of model provides the representation of the data being posted to the controller?

- A. domain model
- B. view model
- C. input model
- D. Data Transfer Object (DTO)

Answer: C

Q9. Which type of model is the representation of the domain-specific entities operating in the middle tier?

- A. domain model
- B. view model
- C. input model
- D. Data Transfer Object (DTO)

Answer: A

Q10. What is the process of binding values posted over an HTTP request to the parameters used by the controller's methods called?

- A. Strongly typed model
- B. Model Binding
- C. Input validation
- D. Action filter

Answer: B

Q11. Which class ASP.NET MVC uses as a built-in binder object?

- A. DefaultModelBinder class which inherits from BindableObject class
- B. DefaultModelBinder class which inherits from ModelBindingContext class
- C. DefaultModelBinder class which implements IModelBinder iteface
- D. DefaultModelBinder class which implements IHttpHandler interface

Answer: C

Q12. How can you make a parameter of primitive type in Action method optional?

- A. Change the parameter type to a nullable type
- B. Use a default value for the parameter
- C. Either A or B
- D. Both A and B

Answer: C

Q13. How should you express a Boolean type in a URL so that default model binder can bind it correctly in action method parameter?

- A. Use the true or false strings
- B. Use the yes or no strings
- C. Use the 0 or 1 strings
- D. Use the empty or non-empty strings

Answer: A

Q14. How many Request collections are there for which a default value provider exists?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: D

[Form - Contains values posted from an HTML form, if any

RouteData - Contains values excerpted from the URL route

QueryString - Contains values specified as the URL's query string

Files - A value is the entire content of an uploaded file, if any]

Q15. Which one is not a default value provider in Request collection?

- A. Forms
- B. QueryString
- C. Cookies
- D. Files

Answer: C

Q16. Which value provider in Request collections contains values specified as the URL's query string?

- A. Forms
- B. QueryString
- C. RouteData
- D. Files

Answer: B

Q17. Which value provider in Request collections contains values excerpted from the URL route?

- A. Forms
- B. QueryString
- C. RouteData
- D. Files

Answer: C

Q18. Consider the following form

```
<form action="/Home/Process" method="post">  
    Name: <input type="text" name="FullName" />  
    <br />  
    Age: <input type="text" name="Age" />  
    <button type="submit">Submit</button>  
</form>
```

The form sends request to action Process in Home controller.
Which action method will **not** work?

- A.

```
public ActionResult Process(FormCollection formData)
{
    String name =formData["FullName"];
    Int age = int.Parse(formData["Age"]);
    // code
}
```
- B.

```
public ActionResult Process(string name, int age)
{
    // code
}
```
- C.

```
public ActionResult Process()
{
    String name =Request.Form["FullName"];
    Int age = int.Parse(Request.Form["Age"]);
    // cde
}
```
- D.

```
public ActionResult Process(string FullName, int Age)
{
    String name =formData["FullName"];
    Int age = int.Parse(formData["Age"]);
    // cond
}
```

Answer: B

[There is no value in request collection with key name and age]

Q19. What should be the type of parameter to bind content from uploaded file?

- A. File
- B. HttpPostedFile
- C. HttpPostedFileBase
- D. FileStream

Answer: C

Q20. What is maximum request length in ASP.NET by default?

- A. 1 MB
- B. 2 MB
- C. 4 MB
- D. Unlimited

Answer: C

Q21. How can you change maximum request length in ASP.NET?

- A. By setting the maxRequestLength entry in the appSettings section of the web.config file
- B. By setting the maxRequestLength entry in the **httpRuntime** section of the web.config file
- C. By setting the maxRequestLength entry in the pages section of the web.config file
- D. By setting the maxRequestLength entry in the config section of the web.config file

Answer: B

Q22. How can you customize some aspects of the binding process of default model binder to control over the posted data?

- A. Using Bind attribute on action method parameters
- B. Using AcceptVerbs attribute on action method
- C. Using HttpPost attribute on action method
- D. Using Validate attribute on action method parameters

Answer: A

Q23. Which property of Bind is used to create whitelists of properties of model objects?

- A. Include
- B. Exclude
- C. Prefix
- D. Suffix

Answer: A

Q24. Which property of Bind is used to create blacklists of properties of model objects?

- A. Include
- B. Exclude
- C. Prefix
- D. Suffix

Answer: B

Q25. How do you create a custom binder from scratch?

- A. Create a class that inherits from the DefaultModelBinder class
- B. Create a class that implements the IModelBinder interface
- C. Create a class implements the IBindingContext class
- D. Create a class that inherits from the ModelBindingContext

Answer: B

Q26. How can you can associate a model binder with its target type globally?

- A. Register the binder in Application_BeginRequest event handler method in the Global.asax file
- B. Register the binder in Application_Start event handler method in the Global.asax file
- C. Register the binder in pages element in Web.config file
- D. Register the binder in _ViewStart page

Answer: B

Q27. How can you can associate a model binder with its target type locally?

- A. Using the ModelBinder attribute in the Action method parameter
- B. Using the ModelBinder attribute in the Action method
- C. Using the ModelBinder attribute in the Controller class
- D. Using the ModelBinder attribute in the Model class

Answer: A