Programming Microsoft ASP.NET MVC
Chapter 03: The model-binding architecture

13 April 2019

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</bitton>
</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. Perfix
    D. Suffix
Answer: A

Q24. Which property of Bind is used to create blacklists of properties of model objects?
    A. Include
    B. Exclude
    C. Perfix
    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 _VewStart 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