ASP.NET Programming Homework 10

Chapter 10, Pro ASP.NET Core MVC 2

Homework

Readings

Read chapter 10, in the *Pro ASP.NET Core MVC 2* book.

Discussion Questions

1. What are *services*? What are services commonly used for? Generally, how are services implemented? You don't need to go into a lot of detail.

2. What does the `AddScoped<T>()` method do? Where do you call the method?

3. What does the `AddSingleton<T>()` method do? Where do you call the method?

4. (Not in book) In the cotext of software design patterns, the term *singleton* has a specific meaning. What is the singleton pattern used for?

5. Microsoft has removed support for Bower from Visual Studio. How do you install the Font Awesome package without using Bower?

6. In building a shopping cart summary functionality, the author creates a view component that takes advantage of a service. Describe how a view component can take advantage of a service.

7. What does the `[BindNever]` attribute do? Why do we need it?

8. What does the HTML `<label>` element do? How does the author use it in build the HTML order checkout form?

9. What do the following two commands do?

   ```
   dotnet ef database drop --force
   dotnet ef database update
   ```

10. What do the following two LINQ methods do?

    ```
    .Include()
    .ThenInclude()
    ```

11. What is the difference between Http `GET` and Http `POST`?

12. What is the difference between server-side validation and cliet-side validation? Do we need both? If so, why do we need both?