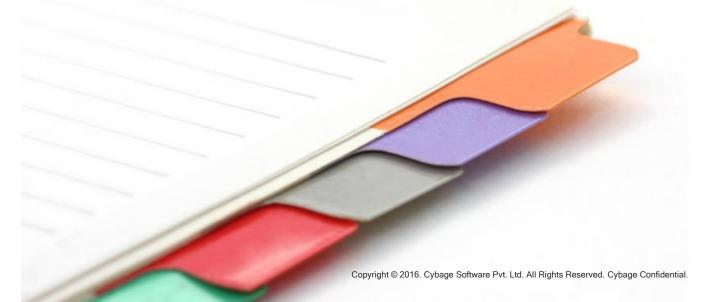


Author and Presenter: Sushant B.



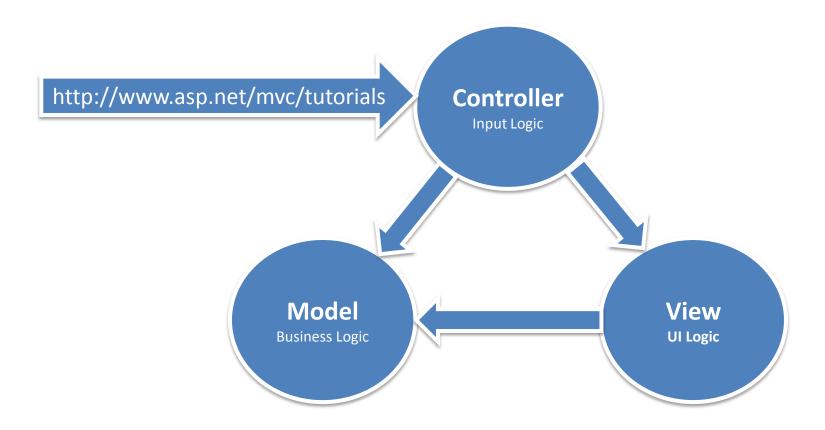
Agenda

- Introduction
- Razor Syntax
- View Conventions
- Passing Data to Views
- Strongly Typed Views
- View Models
- Partial Views.





MVC – A Design Pattern





What is Razor View

- A template that generates HTML response
- A clean, lightweight and simple view engine
- A Razor view has .cshtml or .vbhtml file extensions
- Contains HTML along with data



Razor Syntax

- Razor view uses razor syntax
- @ is a key transition character
 - It switches execution between C# and HTML
- Code blocks
 - Can contain multiple C# lines of code
- Code expression
 - Inline C# expression

```
ViewBag.Title = "Index"; Code Block
var client = "Microsoft";
}

<h3>Client's Name is @client.

Code Expression
```



View Conventions

- Folder name : controller name controller
- Above folder must be inside Views folder
- Overriding conventions is possible

```
public class HomeController : Controller
{
    public ActionResult Index()
    {
        ViewBag.Message = "Hello MVC";
        return View("About");
    }
}
```

```
public class HomeController : Controller
{
    public ActionResult Index()
    {
        ViewBag.Message = "Hello MVC";
        return View(@"~\Views\MyFolder\MyView.cshtml");
    }
}
```

While returning view, can we pass data to view?



Passing Data to View

- ViewData
 - Dictionary object
 - Manually type casting is required
- ViewBag
 - Dynamic wrapper around ViewData
 - Dynamically type casted
- TempData
 - Can be used for subsequent request
 - Can pass data from one controller/action to another controller/action
 - Life is little more than ViewData and ViewBag
- Session
 - Data is available for multiple requests
- None of them are strongly typed.





Why Strong Typing

- ViewData/ViewBag produces performance issues
 - Internally stores data as object
 - Unboxing is required to read data
- Not a type safe technique
 - Compiler can't check type
 - Might be casted to wrong type
 - May be using wrong key name to retrieve value
- View doesn't know about incoming data
 - No connection between data passed and data received
 - View developer must remember what is passed
- Solution? Create strongly typed view.



Strongly Typed View

- When view knows about data type
- @ is used to write C# code
 - · @model declares what is passed
 - @Model can access passed data
 - @using directive declares namespace
- Advantages
 - Compiler can detect errors
 - VS gives intellisense support
- View models are very useful.



View Models

- What about model
 - Model contains data specific to business logic
- What about view model
 - View models contains data specific to views
 - View models are independent of models
- What a view model can do
 - Can return customized data
 - Can customize data without changing models
 - Can return data from multiple models.





Partial View

- Partial Views render a portion of a view content
- It simplifies complexity of a view
- Partial views are reusable in multiple views
- Partial views helps avoid duplicate code.

Partial View

View





Layout Template

- _Layout.cshtml exists in shared folder
- Multiple views can use this template
- It keeps common stuffs
- @RenderBody() wraps view specific content
- _ViewStart.cshtml sets the layout to every view





Summary

- What is MVC
- Controllers
- Views
- Models.



Bibliography, Important Links

http://www.asp.net/mvc



Any Questions?







