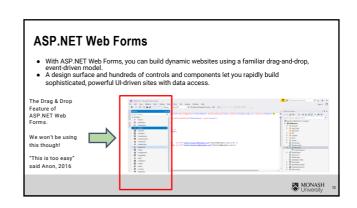
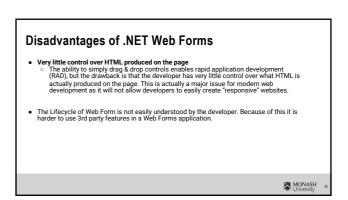
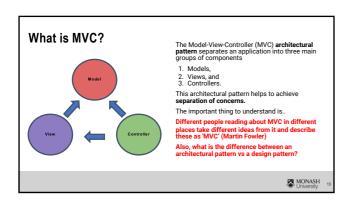


Rapid application development (RAD) describes a method of software development which heavily emphasizes rapid prototyping and iterative delivery. The RAD model is, therefore, a sharp alternative to the typical waterfall development model, which often focuses largely on planning and sequential design practices. Rapid application development has become one of the most popular and powerful development methods, which falls under the parental category of agile development techniques. Keep in mind that, whenever someone uses the word "agile", it actually means a wide variety of methodologies which might include extreme programming. SCRUM, pair programming and etc. Kanban which is sometimes used is considered not to be a software development methodology by a variety of people.

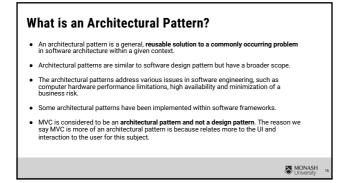


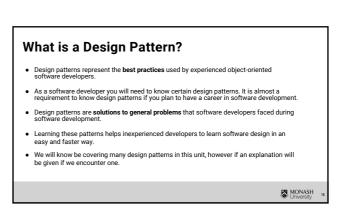
RAD - Rapid Application Development The mechanisms behind how controls and pages work within an event-driven structure are abstracted out so that the developer generally does not need to know the inner workings of the process. Drag & Drop controls provide most of the functionality right out of the box. 3rd party solutions are readily available, and control like Grids generate the HTML and JavaScript for the developer. Applications, complete with validation, can be quickly developed by simply setting properties on controls. Low level of difficulty (Lower learning curve) and considered to be "mature". Majority of companies are now moving away from this though.

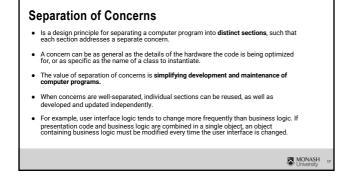


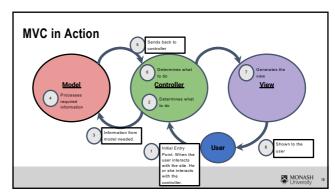


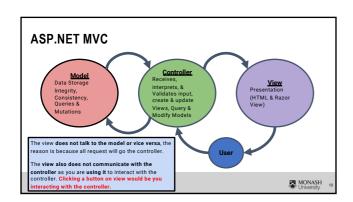
What is MVC Really? • Model View Controller (MVC) is one of the most quoted (and most misquoted) patterns around. • If you put ten software architects into a room and have them discuss what the Model-View-Controller pattern is, you will end up with twelve different opinions. (Josh Smith, Codeproject). We will show our viewpoint of the MVC very soon. • For example, in the diagram, do you think the View "talks" to the Model? What do you think? Justify it. • One of the primary goals of MVC is to decouple the UI, business logic and data. • This is a controversial topic in MVC. Some developers considers it to be OK for the View to access the Models, others disagree.

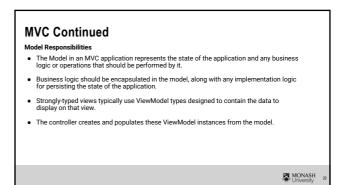












View Responsibility

- Views are responsible for presenting content through the user interface.
- They use the Razor view engine to embed .NET code in HTML markup.
- There should be minimal logic within views, and any logic in them should relate to
- If you find the need to perform a great deal of logic in view files in order to display data
 from a complex model, consider using a View Component, ViewModel, or view template to
 simplify the view.



Views in ASP.NET MVC

- In the Model-View-Controller (MVC) pattern, the view handles the app's data presentation and user interaction.
- A view is an HTML template with embedded Razor markup.
- Razor markup is code that interacts with HTML markup to produce a webpage that's sent to the client.
- In ASP.NET MVC, views are .cshtml files that use the C# programming language in Razor markup.
- Usually, view files are grouped into folders named for each of the app's controllers.



Benefits of View

- Views help to establish a **Separation of Concerns (SoC)** design within an MVC app by separating the user interface markup from other parts of the application.
- Following SoC design makes your app modular, which provides several benefits:
 The app is easier to maintain because it's better organized. Views are generally grouped by app feature. This makes it easier to find related views when working on a feature.
 - The parts of the app are loosely coupled. You can build and update the app's views separately from the business logic and data access components. You can modify the views of the app without necessarily having to update other parts of the app. It's easier to test the user interface parts of the app because the views are separate
 - units.

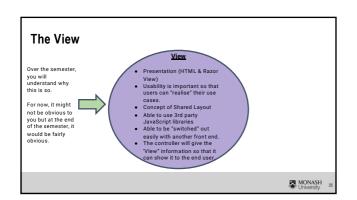
 Due to better organization, it's less likely that you'll accidently repeat sections of the

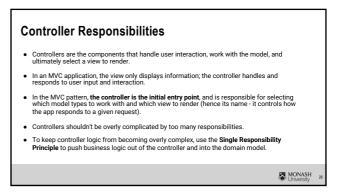


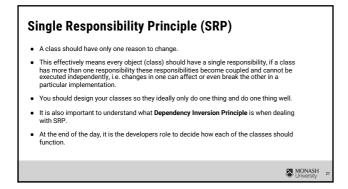
What is Razor?

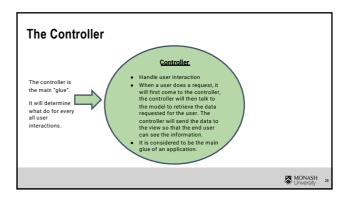
- Razor is a markup syntax for embedding server-based code into web pages. The Razor syntax consists of Razor markup, C#, and HTML. Files containing Razor generally have a .cshtml file extension.
- The default Razor language is HTML. Rendering HTML from Razor markup is no different than rendering HTML from an HTML file. HTML markup in .cshtml Razor files is rendered by the server unchanged.

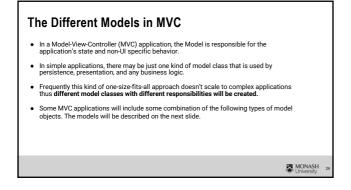
MONASH University

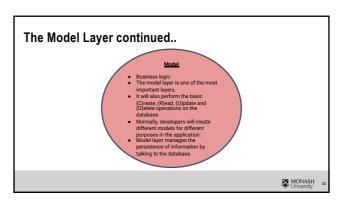


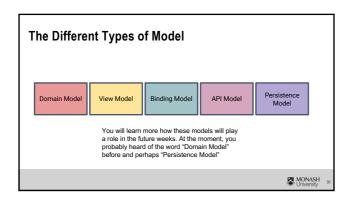


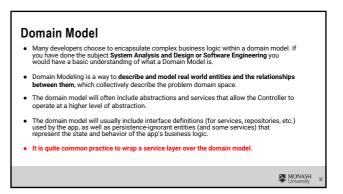












View Model This is not the same as the "View" in the MVC architecture. This View is ViewModel In an MVC web application, a ViewModel is a type that includes just the data a View requires for display (and perhaps sending back to the server). ViewModel types can also simplify model binding in ASP.NET MVC. ViewModel types are generally just data containers; any logic they may have should be specific to helping the View render data. There may be many similar ViewModel types, each tailored to the needs of a particular View.

