

MVC COURSE

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Prepared By-Binesh Singh Rajput

Microsoft Dynamics NAV Programmer
on
ICS Technology

<http://sbinesh.yolasite.com>



Agenda – Session 1

Architectural Design Patterns

Model View Controller Pattern

Web Application Components/Competition

Advantages

Disadvantages

ASP.NET MVC & its Essentials

ASP.NET

MVC

Architectural Design Pattern

- Design patterns are recognized solutions to common problems defined originally by the Gang of Four (GoF) patterns.

Factory

Abstract Factory

state

<http://wiki.asp.net/page.aspx/2>

Singleton

Adapter

FlyWeight

Template method

Proxy

3-Tier / N-Tier


.NET

MVC

What is MVC?

- A design pattern
- Acronym for **Model • View • Controller**
- Separation of concerns

The pattern isolates **"domain logic"** (the application logic for the user) from the **user interface** (input and presentation), permitting independent development, testing and maintenance of each



Your implementation is nothing before my combination of JSP, J2ee httpServlet and Java beans

The best MVC implementation is made by using ASP.NET pages, HttpHandler and .NET classes.



ASP.NET

MVC

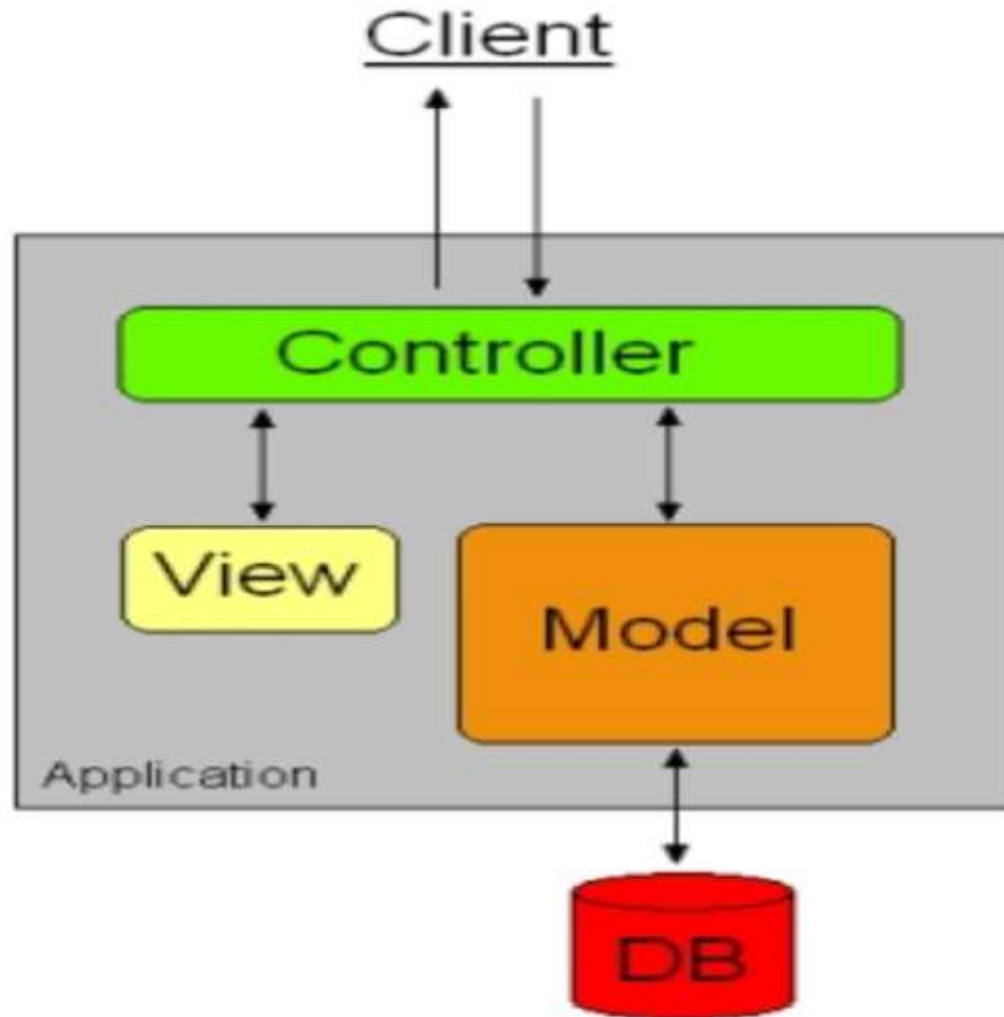
Advantages

- * Better Separation of Concerns
- * Testability
- * Model Binder is excellent !
- * No Viewstate anymore
- * SEO friendly url's (automatic)
- * Complete control over Html output and HTML based
- * Easier integration with Javascript / JQuery
- * Building an Internet site where HTML, performance, and scalability are paramount ASP.NET MVC may be better suited

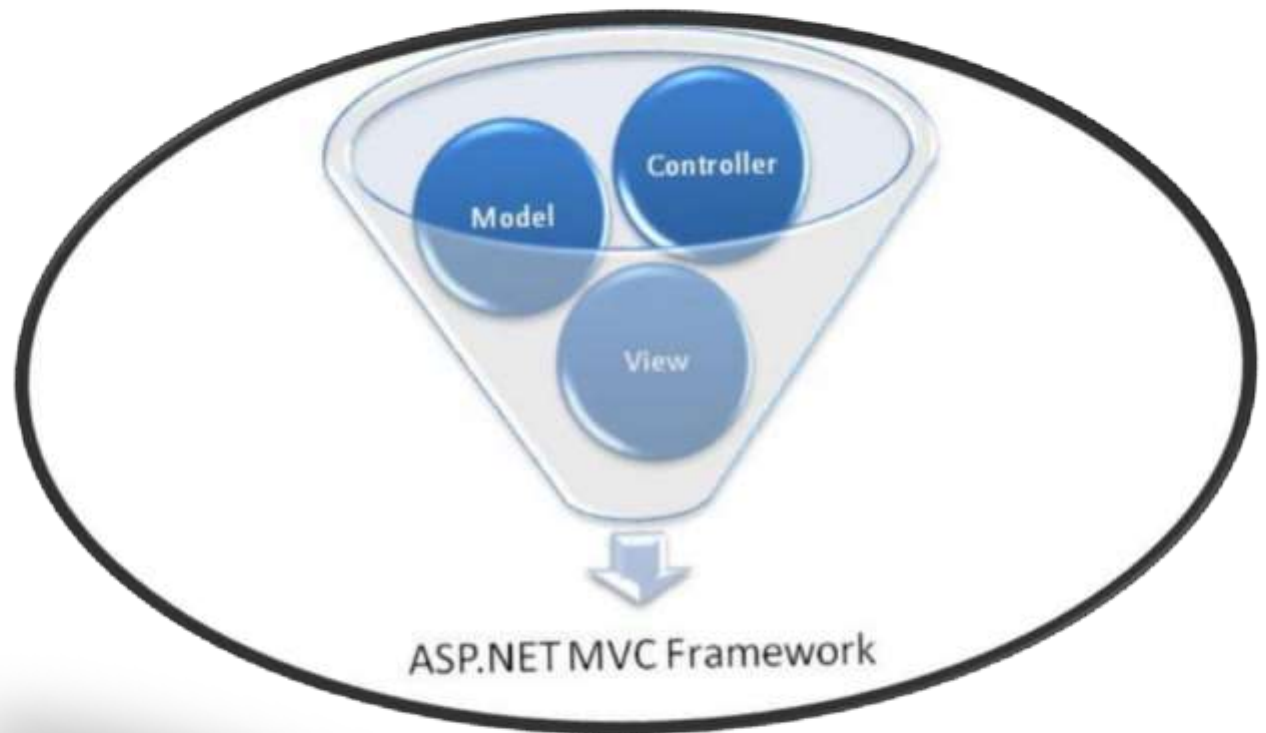
Disadvantages

- Not as RAD as using Web Forms
- No drag and drop experience
- Doesn't build on all your experience with ASP.NET server controls
- Encourages use of design patterns and best practices

Standard MVC View



ASP.NET MVC



ASP.NET

MVC

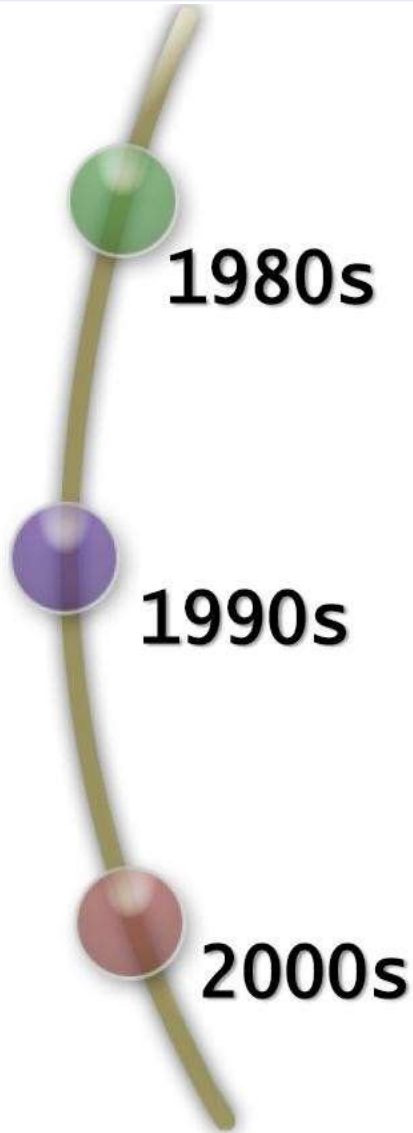
Questions



Microsoft
.NET

MVC

Roadmap



Object-Oriented

- Polymorphism
- Encapsulation
- subclassing

Component-Based

- Interface-based
- Dynamic Loading
- Runtime Metadata

Service-Oriented

- Message-based
- Schema+Contract
- Binding via Policy

Microsoft
.NET

MVC