Models

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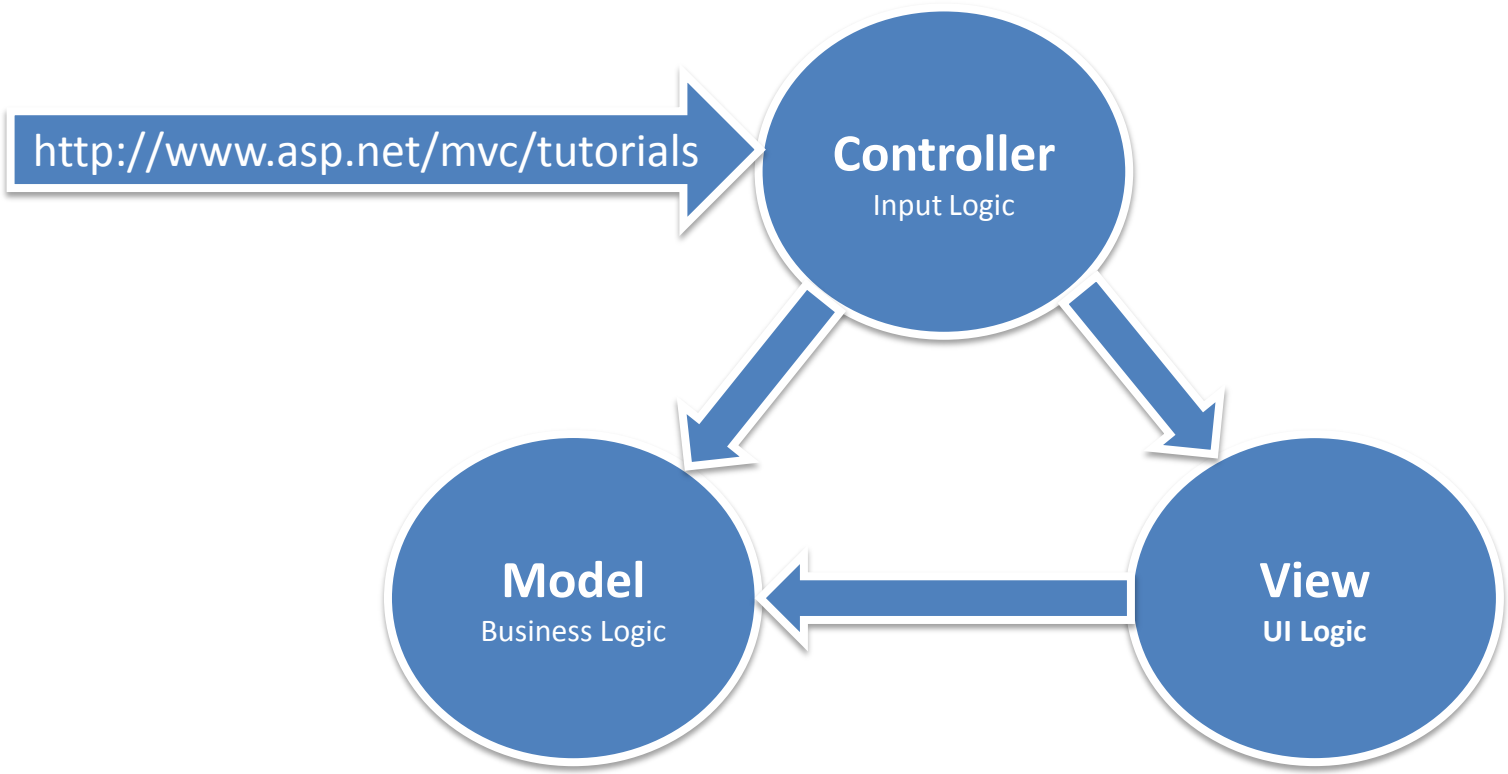
Agenda

- Introduction to Models
- Model Binding
- CRUD Operation
- Model Validations

MVC – A Design Pattern



Models

- Models are C# classes
- Represent business logic
- Can have data access logic
- Can contain validation logic.

```
namespace MvcEmpMgmt.Models
{
    public class Employee
    {
        public int EmployeeId { get; set; }
        public string Name { get; set; }
        public DateTime JoiningDate { get; set; }
        public double Salary { get; set; }
        public string Department { get; set; }
    }
}
```

Model Binder

- A bridge between HTTP requests and action methods
- Default action invoker relies on model binder
- Model binder generates parameter objects
- Defined by IModelBinder interface
- Multiple binders exist for binding different types
- Default model binder's search locations
  - Request.Form
  - RouteData.Values
  - Request.QueryString
  - Request.Files

Model Binding

- Binding to simple type – best practice
  - Provide a fallback position
  - Using nullable type
  - Making parameters default
  - Check for null values
- Binding to complex type
  - Uses reflection to access public properties
  - Binds each property in turn

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Demo

Validating Data

- Validation using model binder
- Explicitly validating data
- Validation using meta data
  - Required
  - Range
  - StringLength
  - Compare
  - RegularExpression
- Custom property validation attribute
- Creating self-validating models
- Remote validation
- Client side validations

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Demo

Summary

- Creating models
- Using model binder
- CRUD Operation
- Validating models

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Bibliography, Important Links

- http://www.asp.net/mvc

Any Questions?

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Thank you!