ASP.NET

# Architecture

* PL
  + Web Form
    - ASPX
    - Code behind
  + ASP.NET
    - Configuration
      * Routes
      * Services
      * Dependency Injection
      * Authentication
      * Authorization
    - MVC
      * Controller
        + Verb Annotation
        + Route Annotation
        + Prepare data
      * Model
        + Data Annotation for validation
        + DTO
        + ViewModel
        + AutoMapper?
      * View
        + @Model
        + @ViewBag
        + ViewModel
        + @Ajax
        + Validation
        + HTML
        + CSS

Bootstrap

* + - * + @C#
    - Razor
      * .cshtml
        + @Page
        + @model namespace
        + @Model.Variable
      * .cshtml.cs - PageModel
        + var variable
        + model binding

FromBody

Route/{id}

Query String

* + - * + [BindProperties] – 2 directional binding

To properties

To class model

* + - * + Html a href Event handling in C#

<a asp-page-handler=”MethodName”></a>

In C#, PageModel – add a C# OnGetMethodName

* + Blazor
* WEB API
  + Controllers
  + Route
    - Table
    - Annotations
  + Delegating filters
  + Action filters
    - Data in - Model binding
      * URI – query string
      * Headers
      * Body
    - Data out – return value
      * HttpResponseMessage
      * Void
      * IHttpActionResult
      * CLR POCO
        + Content Negotiation – JSON/XML
  + Authentication filters
  + Authorisations filters
  + Exception
    - Global.asax Application\_Error
    - Exception Handler
    - Exception Logger
    - Exception filters
* SignalR
* BL
  + C#
* Service Layer / Dependency Injection Layer
  + DL
    - Service pattern
    - Repository pattern
    - Unit of Work pattern
  + ILogger
* DL
  + Entity Framework
    - DB Context
      * DB Sets
* Database
  + SQL Server
  + SQLite
  + Mongo DB