

Serving HTML5 and JSON Content

Dan Wahlin



Agenda

- **Server-Side Technology Overview**
- **Creating ASP.NET MVC Controllers**
- **Using HTML5 Boilerplate in _Layout.cshtml**
- **Working with Views**

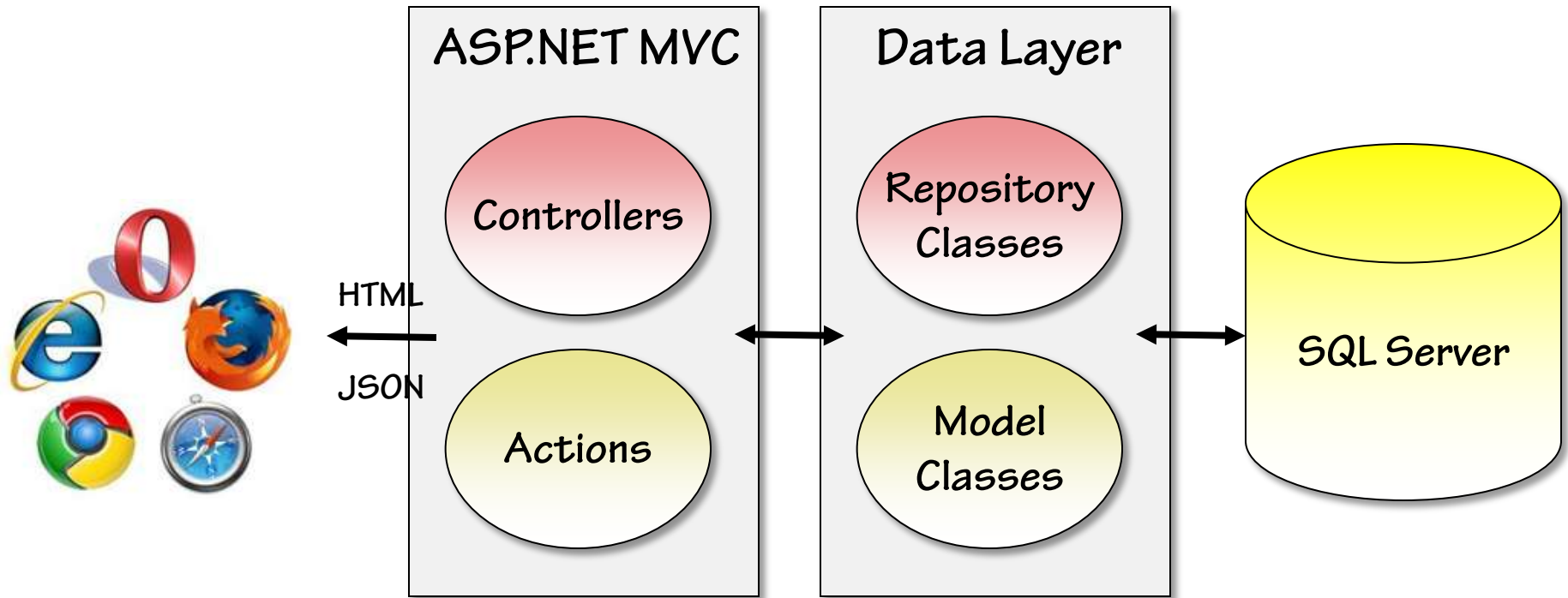


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Server-Side Technology Overview



The Role of ASP.NET MVC

- **ASP.NET MVC used to serve HTML and JSON:**
 - Controller instance created as requests are made to the server
 - HomeController creates initial View which handles rendering HTML
 - DataServiceController handles serializing Model objects to JSON
- **Controllers use Repository layer for all data access**

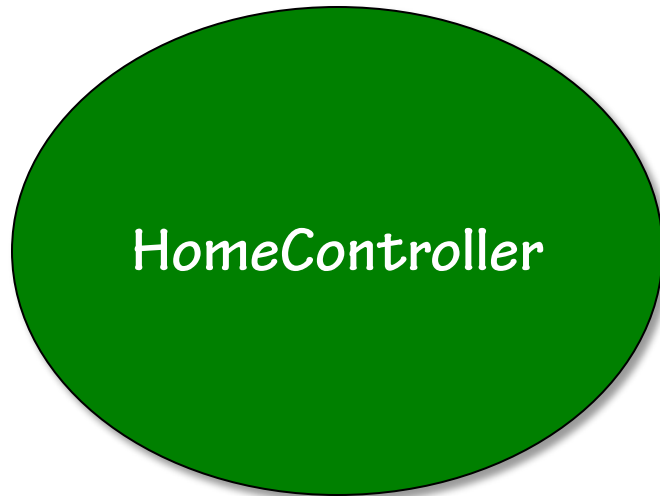


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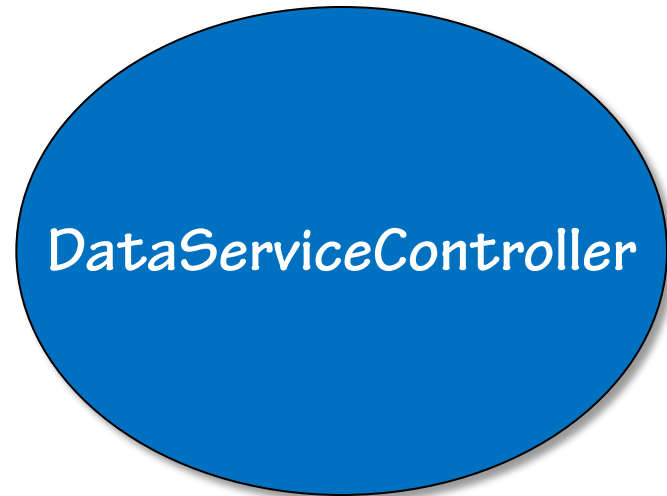
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Account at a Glance Controllers



Serves initial view



Serves JSON data



Serving Up JSON Data

- **Data served to client using an ASP.NET MVC Controller**
- **Controller actions call data repository objects**
- **Model objects converted to JSON and returned to client**



JSON Action Example

```
public class DataServiceController: Controller
{
    public ActionResult GetQuote(string symbol)
    {
        return
            Json(_SecurityRepository.GetSecurity(symbol),
                JsonRequestBehavior.AllowGet);
    }
}
```



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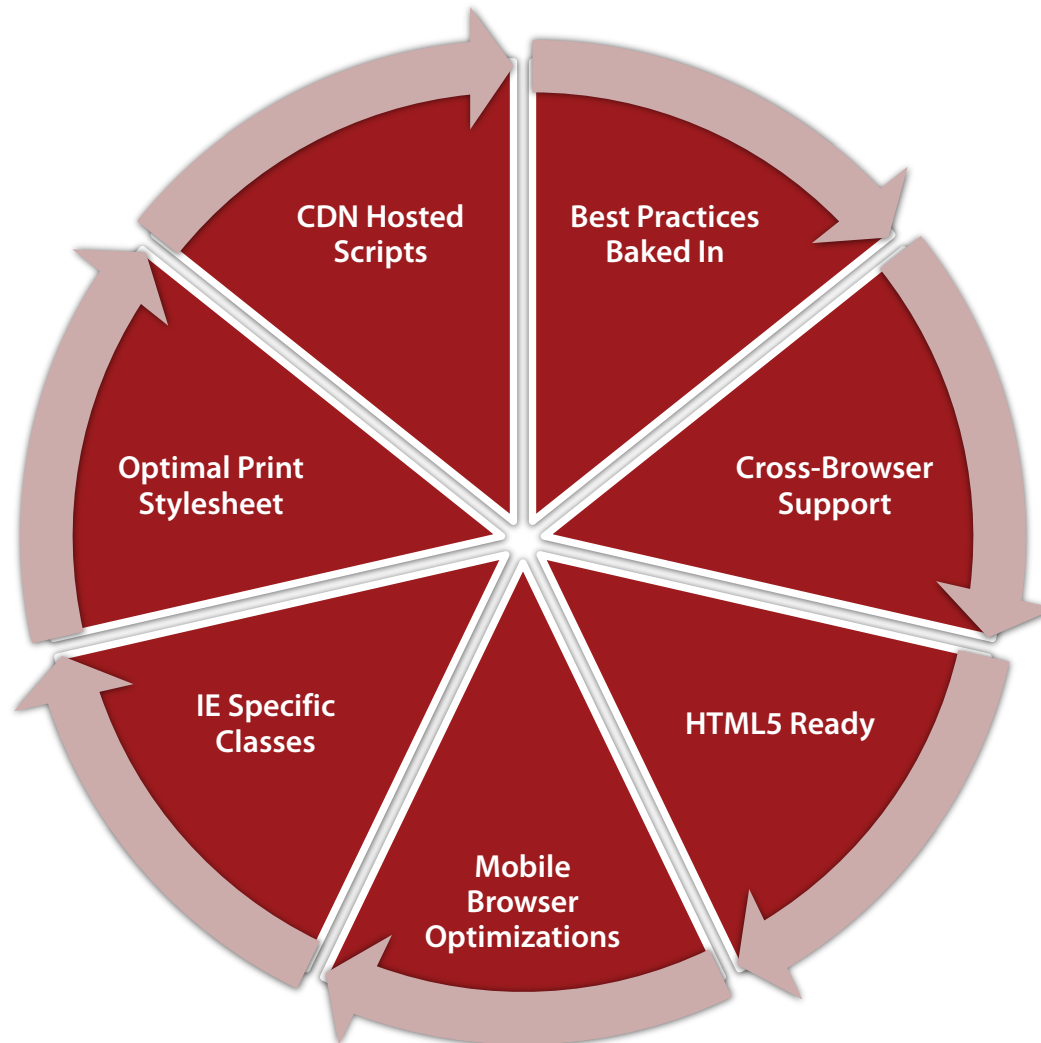
What is HTML5 Boilerplate?



<http://html5boilerplate.com>



Why Use HTML5 Boilerplate?



HTML5 Boilerplate Options

HTML5 ★ BOILERPLATE

A rock-solid default for HTML5 awesome.

► I'm new here: [plz explain why it's so awesome, first.](#)

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JQUERY

- ☒ Minified
- ☐ Unminified

SERVER CONFIG

- ☒ .htaccess
- ☐ nginx.conf
- ☐ web.config

OTHERS

- ☒ All IE classes
- ☒ script.js & plugin.js
- ☒ Google Analytics Snippet
- ☒ Ant Build Script

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_Layout.cshtml and HTML5 Boilerplate

- **_Layout.cshtml provides master template for the site**
- **HTML5 Boilerplate code used as the starting point**
 - HTML5 doctype defined
 - Character set defined as utf-8
 - IE render mode set to "edge"
 - Viewport width set to "device-width"
 - jQuery loaded from CDN with a local fallback
 - Modernizer loaded



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Summary

- **ASP.NET MVC used to serve HTML and JSON to browsers**
- **Controller actions used to serialize Model objects into JSON**
- **Interfaces can be mapped to concrete types using DI containers like Unity**
- **HTML5 Boilerplate used as the starting point for _Layout.cshtml**

