

Day 2

ASP.NET Core MVC –

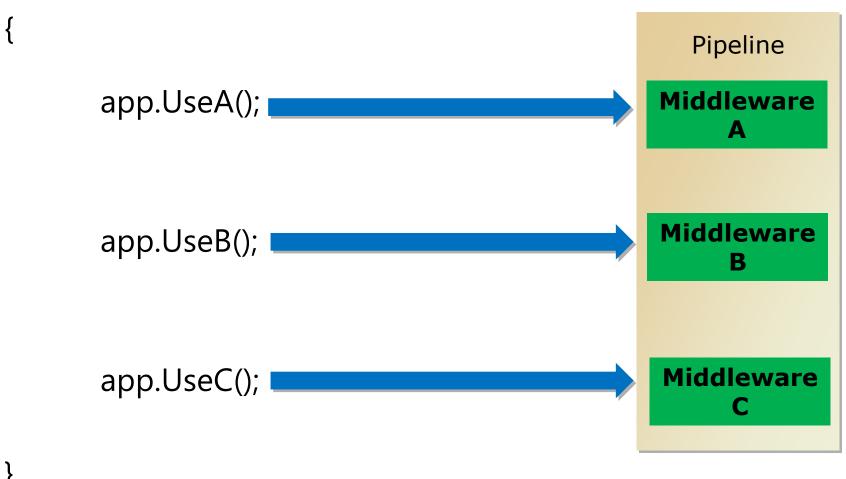
Model, View, Controller & Actions

## Session Overview

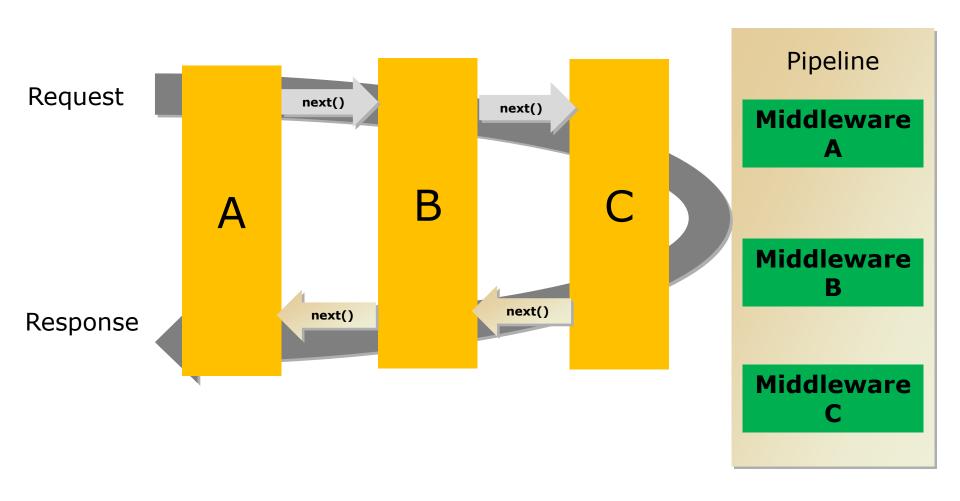
- Concept of Middleware
- Understanding Model, View, Controller
- Creating Controller
- Understanding Actions
- Actions and Non-Actions Methods
- Understanding Action-Result
- Communication Between View & Controller

# **Middleware: Configuration**

Public void Configure (IApplicationBuilder app)



# **Middleware: Request Handling**



# **MVC** Applications

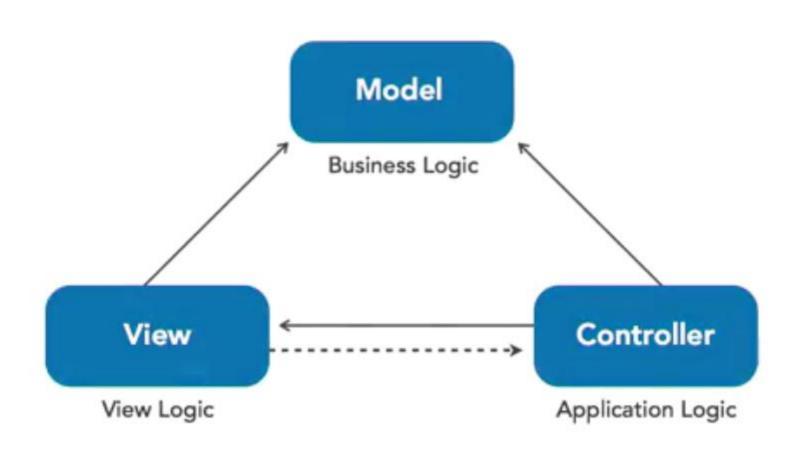
- Models encapsulate objects and data
- Views generate the user interface
- Controllers interact with user actions
- Code in .cshtml and .cs files
- Precise control of HTML and URLs
- Easy to use unit tests

### **Framework**

- Handles Middleware Code
- Focus on Application Logic
- ASP.NET Core MVC Framework

### **ASP.NET Core MVC Framework**

- Named for Model-View-Controller(MVC)
   Pattern
- User Interface Design Pattern
- Promotes Separation of Concerns across multiple application layer



#### HTML

```
<h1>My Blog</h1>
<section>
   <h2>Middleware</h2>
  <div class="post">
      _ _ _ _ _ _
   </div>
  <a href="/comments/1">
      View Comments
   </a>
</section>
<section>
   <h2>Mobile First</h2>
  <div class="post">
   </div>
   <a href="/comments/2">
      View Comments
   </8>
</section>
```

# My Blog Middleware ... ... ... ... ... View Comments Mobile First ... ... ... ... ... ... ... ... ... ... View Comments

#### **CSS**

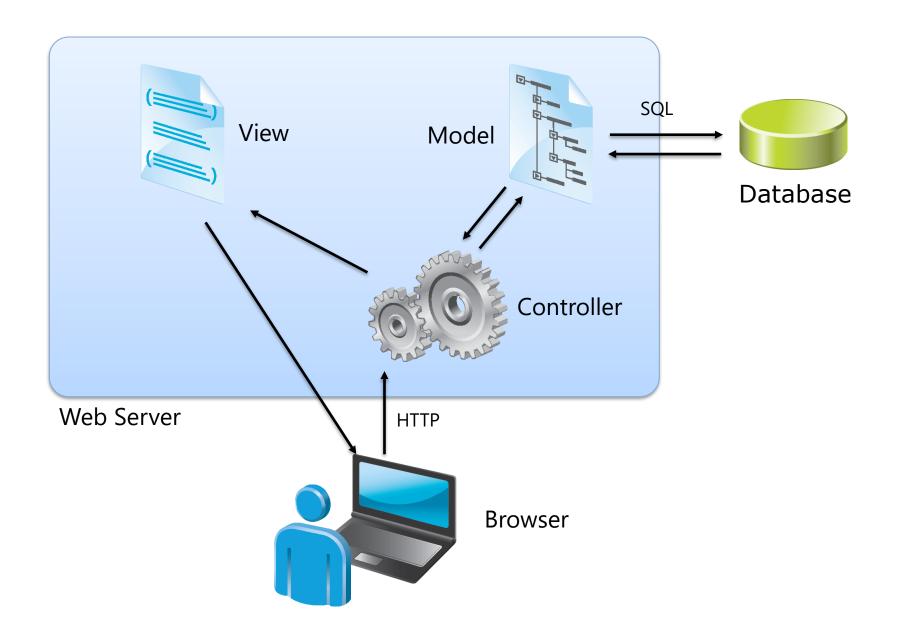
```
H1 {
   font-weight: bold;
}

H2 {
   font-size: 110%;
}
.post {
   margin-bottom: lem;
}
```

### JavaScript

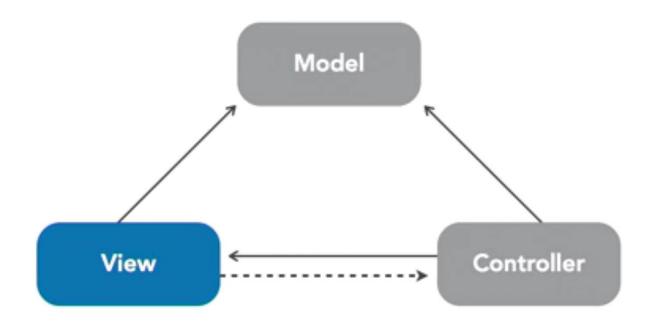
```
$(function() {
    $('.post a')
    .on('click', loadComments)
})
```

# Models, Views, and Controllers



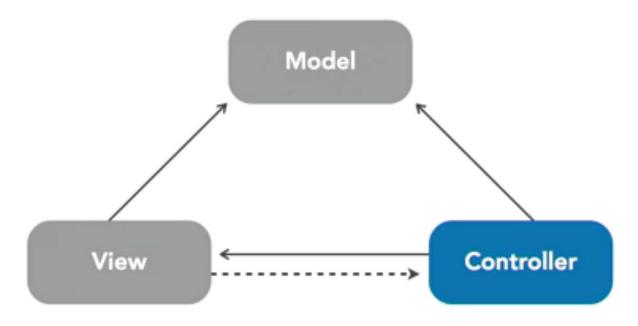
## **MVC: View**

- Good Looking User Experience
- Very Little Logic



## **MVC: Controller**

- Controls Application Workflow
- Orchestrates Interaction between the model and the view



### **MVC: Model**

All Business Logic

**Business Processes** 

Validation Rules

Does not know anything about view and controller

View

Model

Model

Controller

# **Adding Views**

