

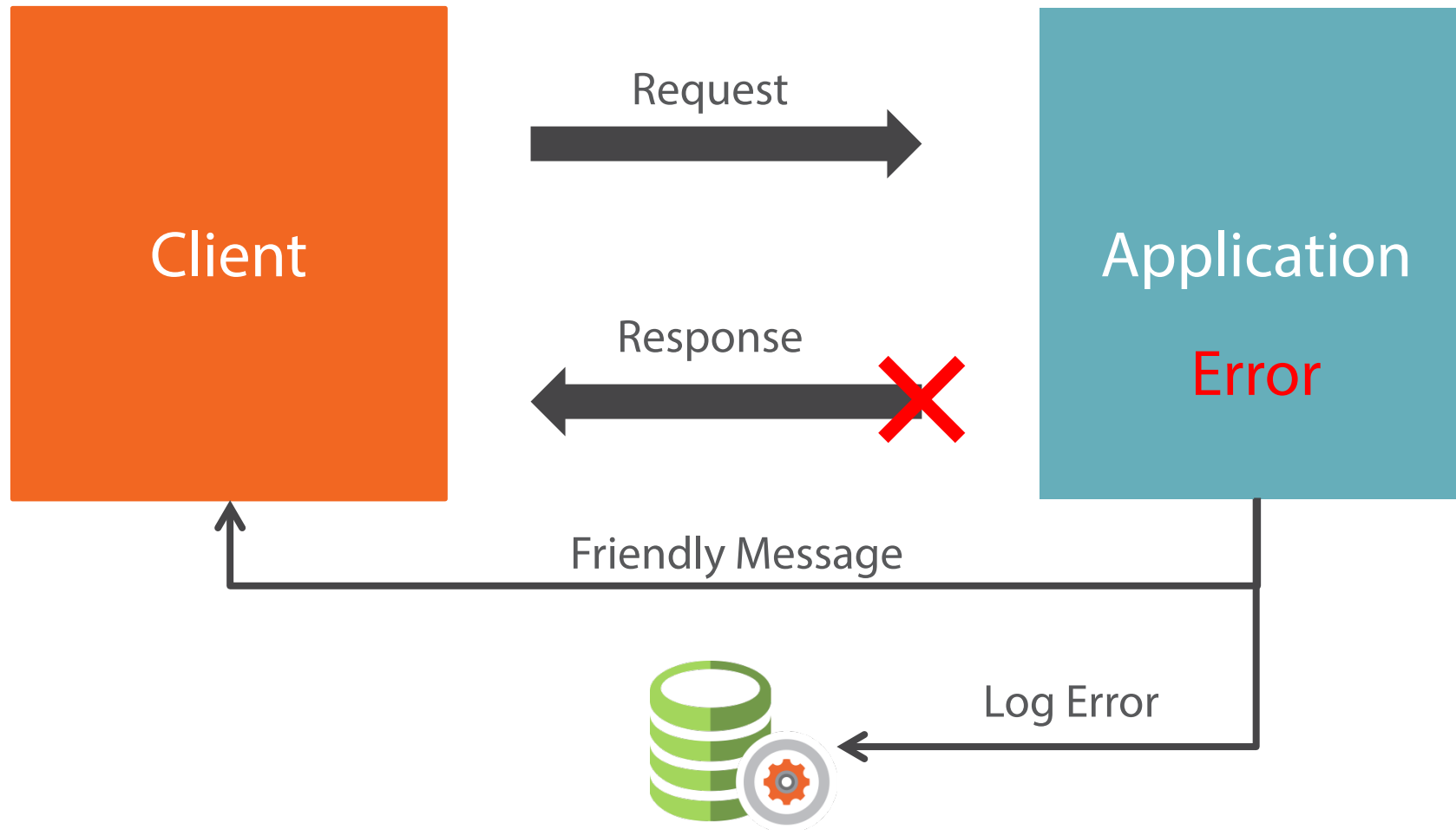
# Improving Error Handling with Custom Exception Filters



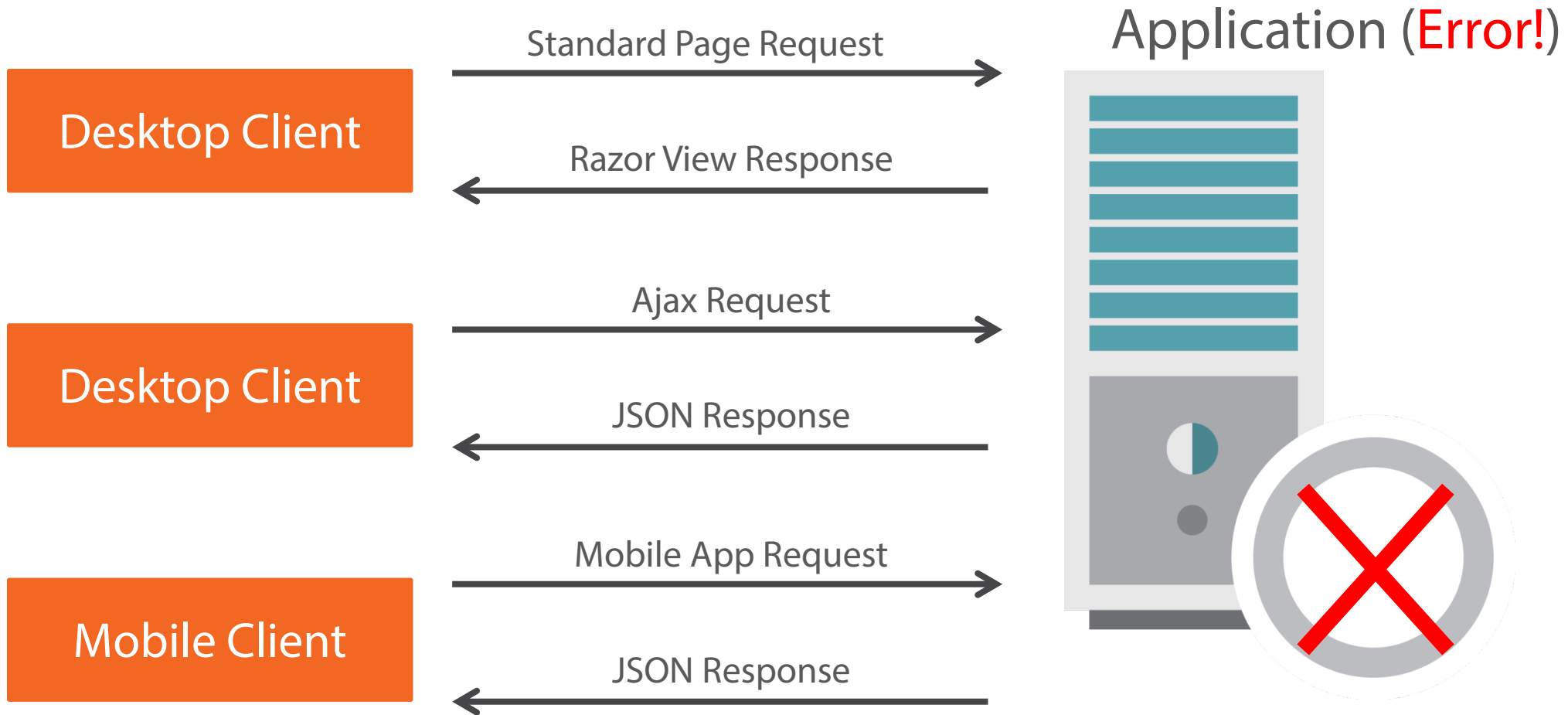
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# Handling and Logging Exceptions



# Different Requests, Different Responses



# Controlled Exception Handling

## Exception Filters

Control Scope

Control  
Notifications

Control Other  
Custom Features



# Understanding Exception Filters

# Exception Handling Strategies

```
public ActionResult Index()
{
    try {
        //Unreliable code here
    }
    catch {

    }
}
```

```
public ActionResult Index()
{
    try {
        //Risky code here
    }
    catch {

    }
}
```

```
public ActionResult Index()
{
    try {
        //Risky code here
    }
    catch {

    }
}
```

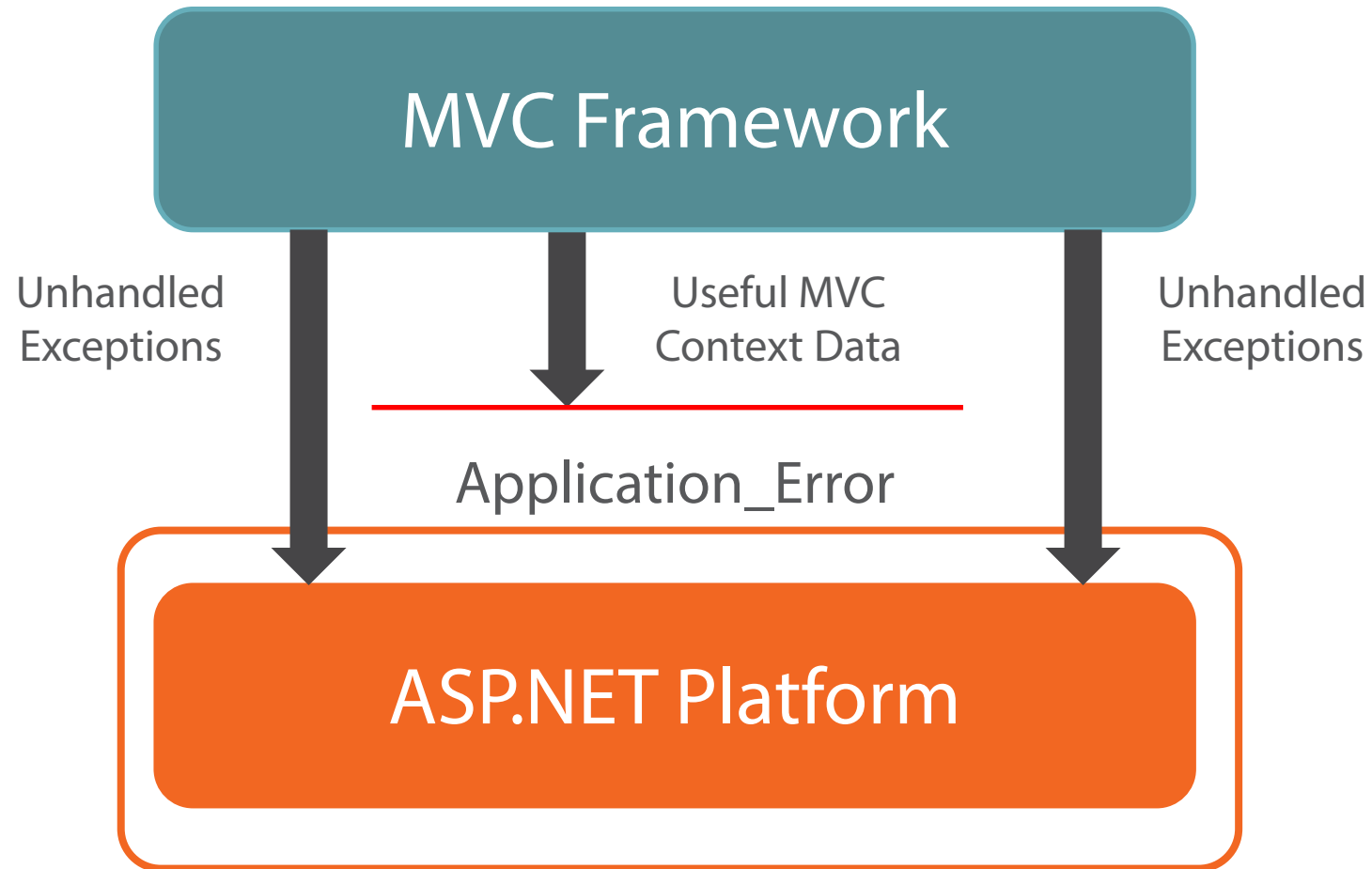
```
public ActionResult Index()
{
    try {
        //Risky code here
    }
    catch {

    }
}
```

```
public ActionResult Index()
{
    try {
        //Risky code here
    }
    catch {

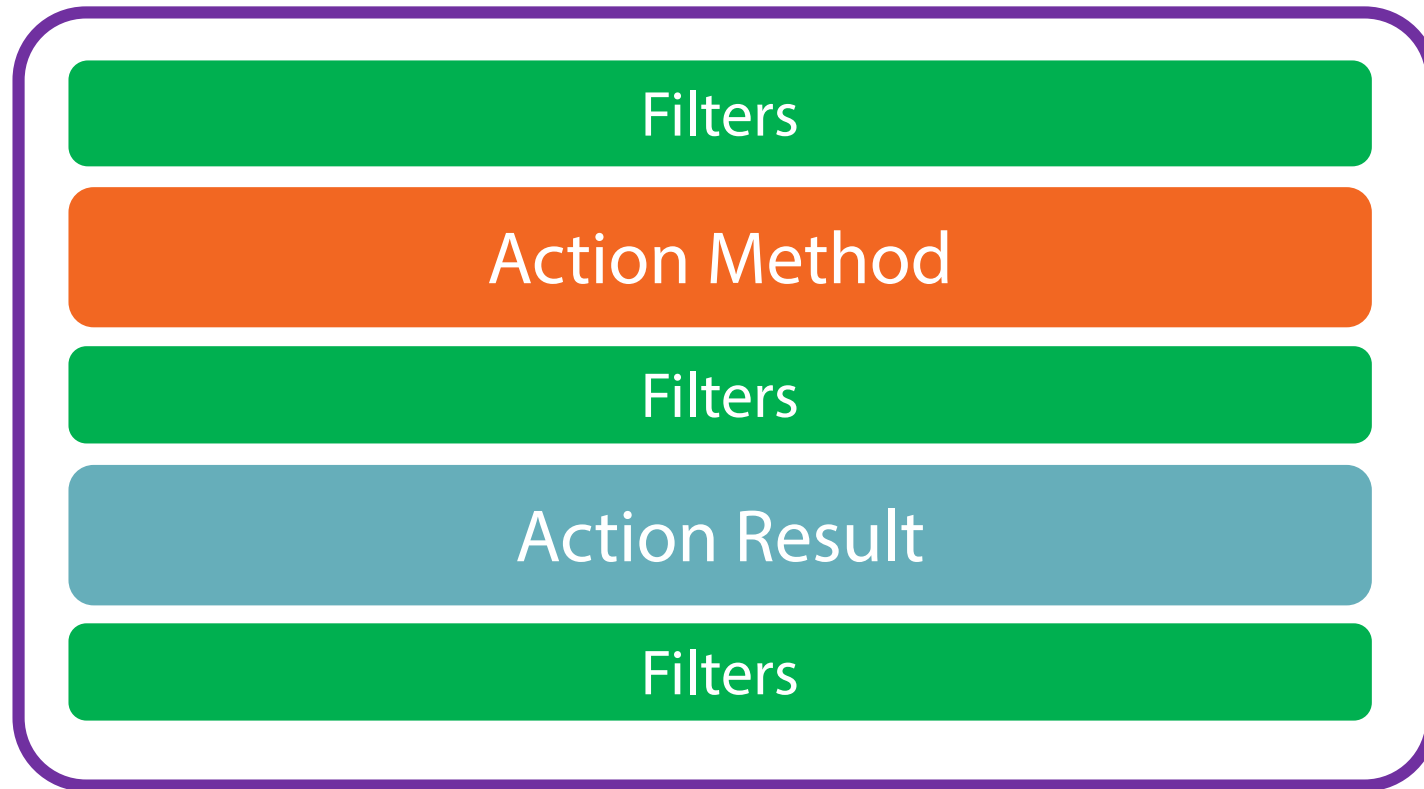
    }
}
```

# Application Level Error Handling



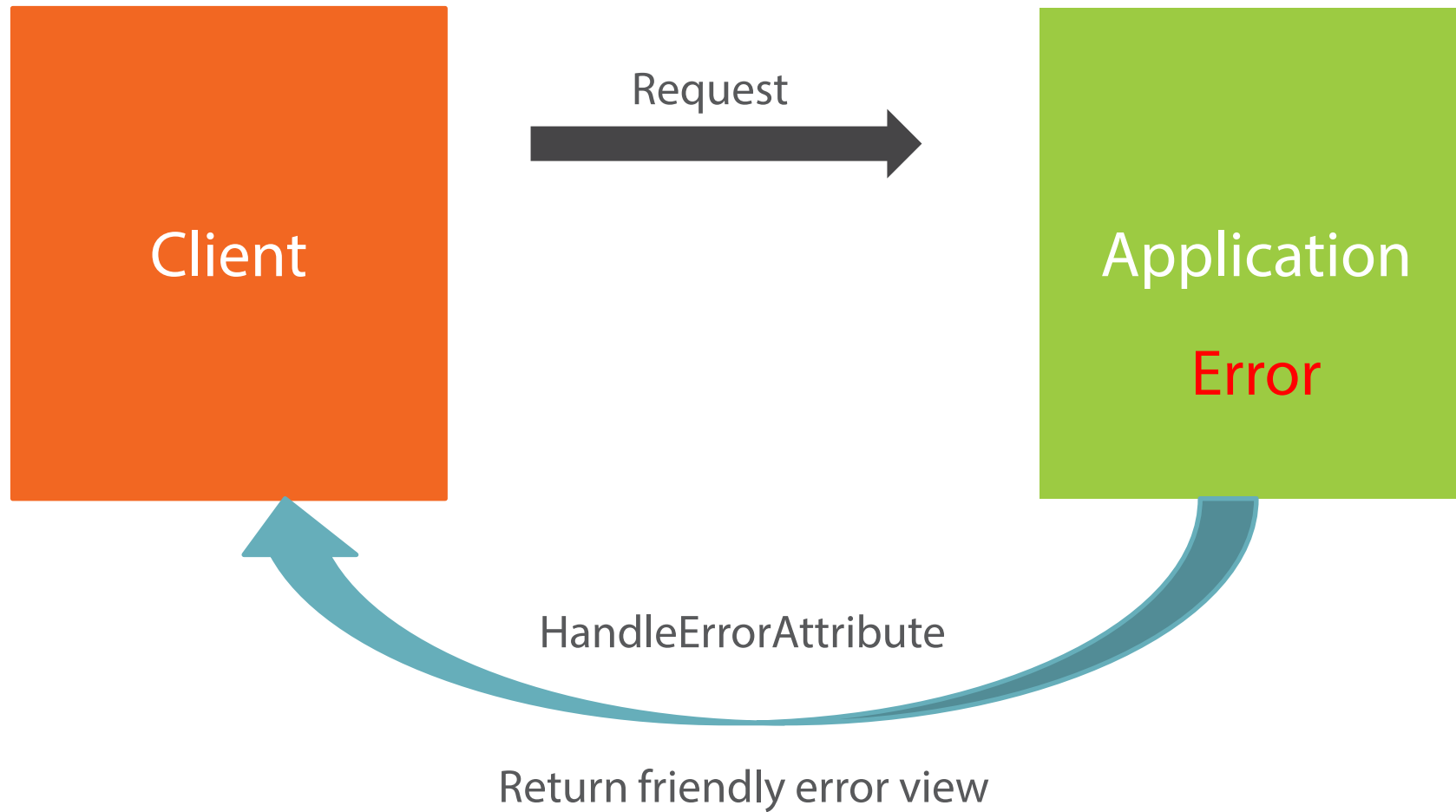
# Exception Filters and the MVC Life Cycle

## Exception Filters





# The Default **Exception** Filter



# The **IFilter** Interface

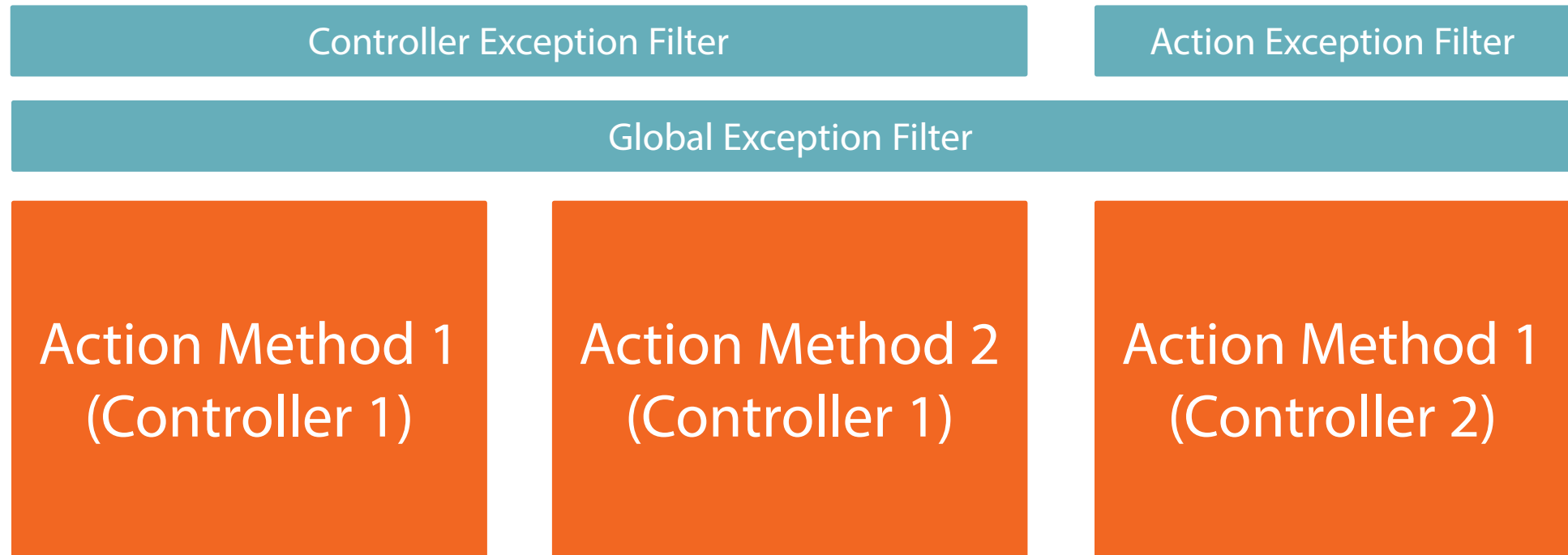
```
public interface IExceptionFilter
{
    void OnException(ExceptionContext filterContext);
}
```



```
public class ExceptionContext : ControllerContext
{
    public ExceptionContext(ControllerContext controllerContext, Exception exception);

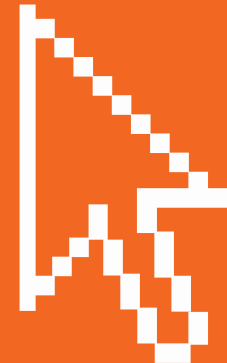
    public virtual Exception Exception { get; set; }
    public bool ExceptionHandled { get; set; }
    public ActionResult Result { get; set; }
}
```

# Exception Filter Execution Scope

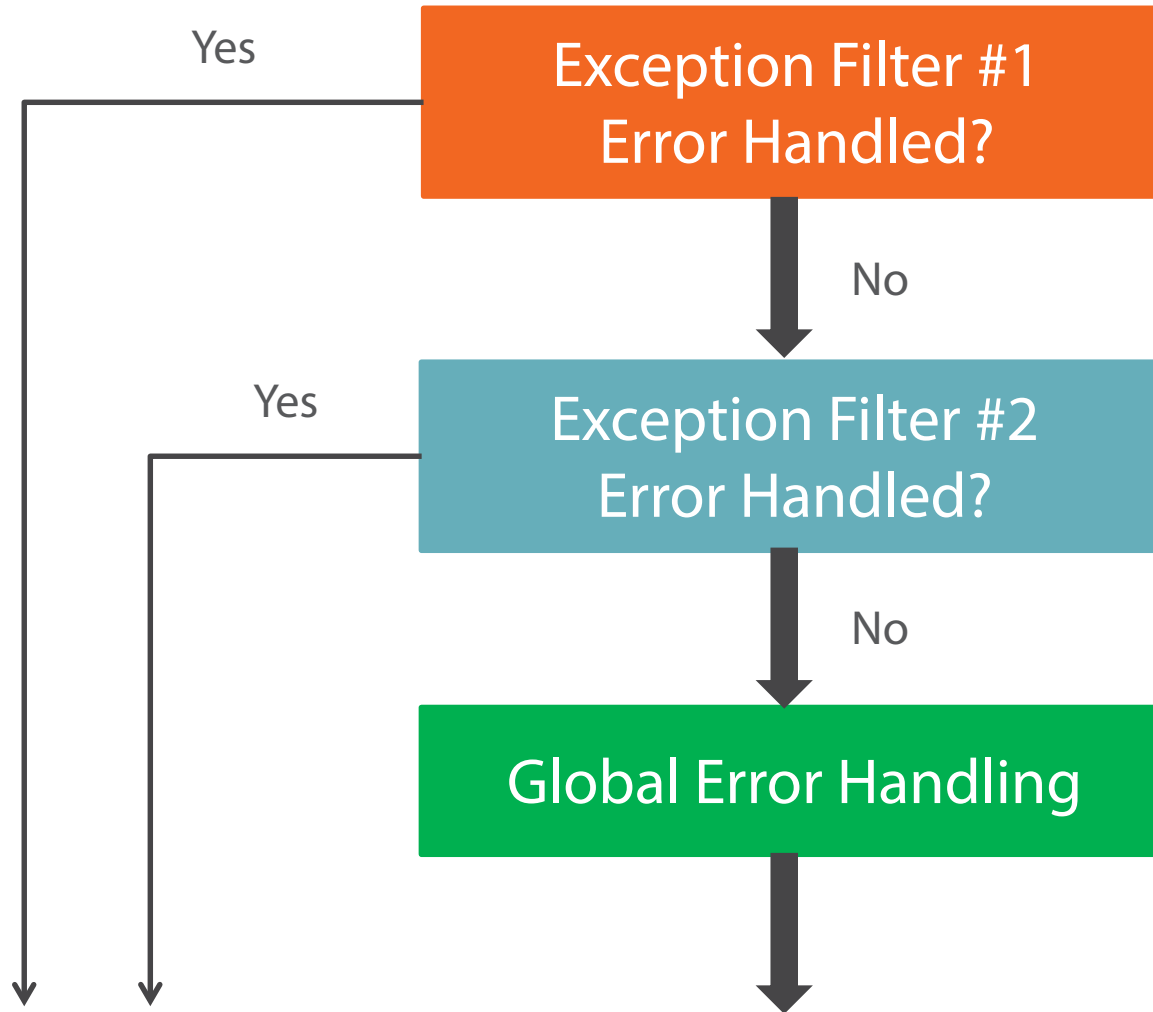


# Demo

## Building a Custom Exception Filter



# Exception Filter Execution Order



# Summary



- Exception Filters provide flexibility for error handling
- Can Handle errors in the scope of Action Method execution
- Provide access to more contextual framework information
- Global Error handling should still be used as a fallback