Working with Forms

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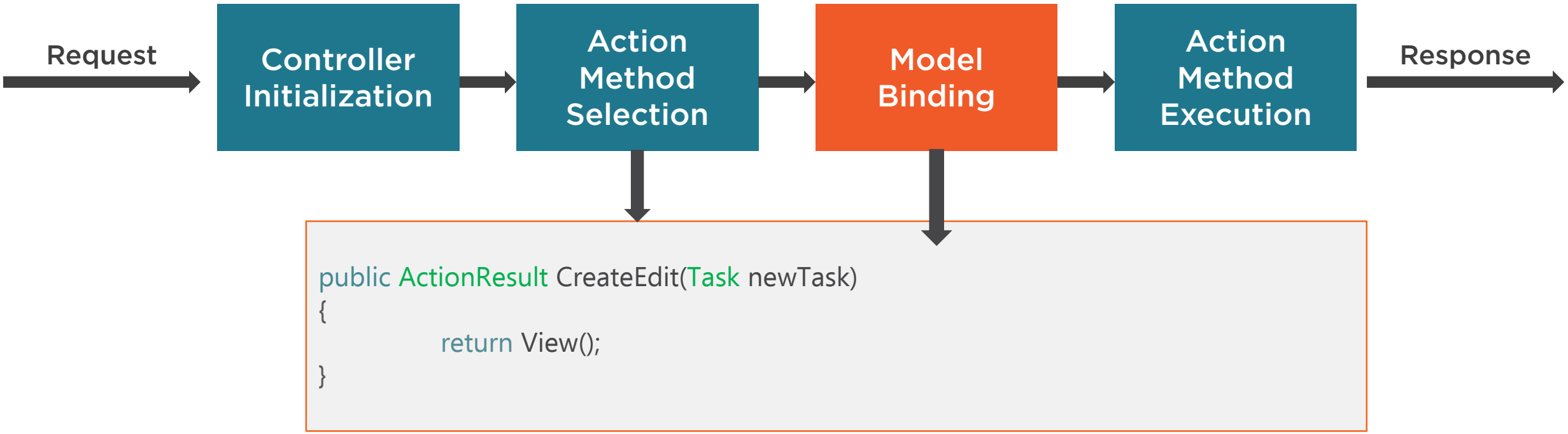
To-Do List

- Reviewing Form Submissions in Web Forms
- Introducing Model Binding in MVC
- Demo: Stepping Through the Data Layer
- Demo: Rebuilding the Task Form in Razor
- Demo: Handling Submitted Form Data

Introducing Model Binding

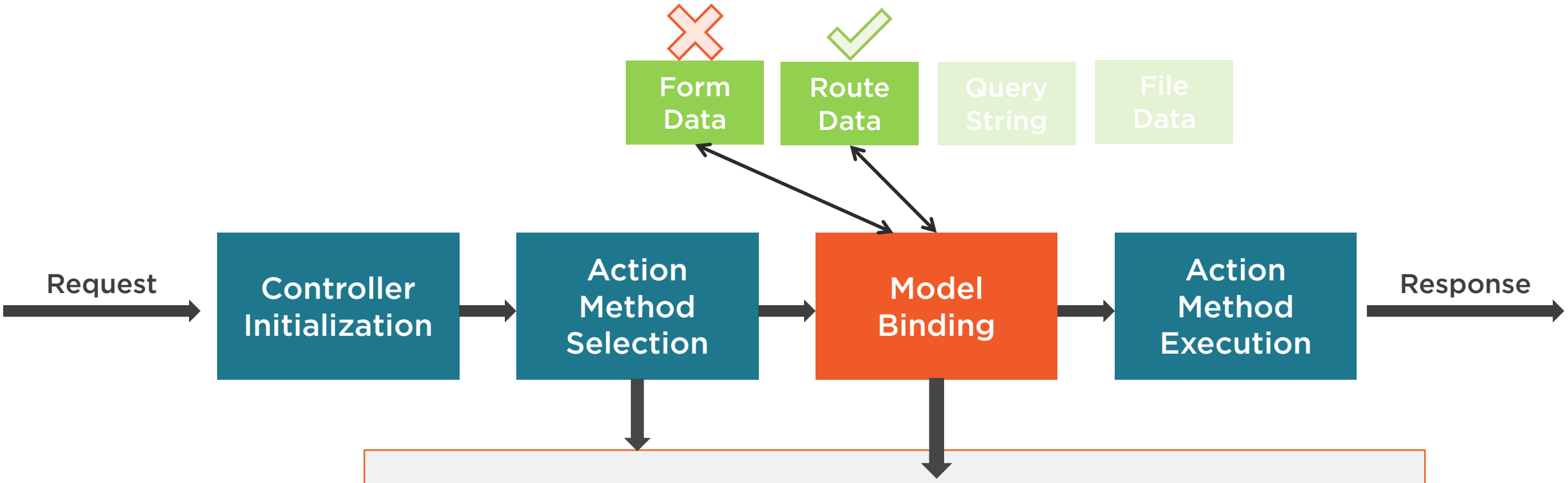
Model Binding and the Request Life Cycle



The Types of Value Providers

- Form Value Provider
- Route Data Value Provider
- Query String Value Provider
- File Value Provider

Supplying Data with Value Providers



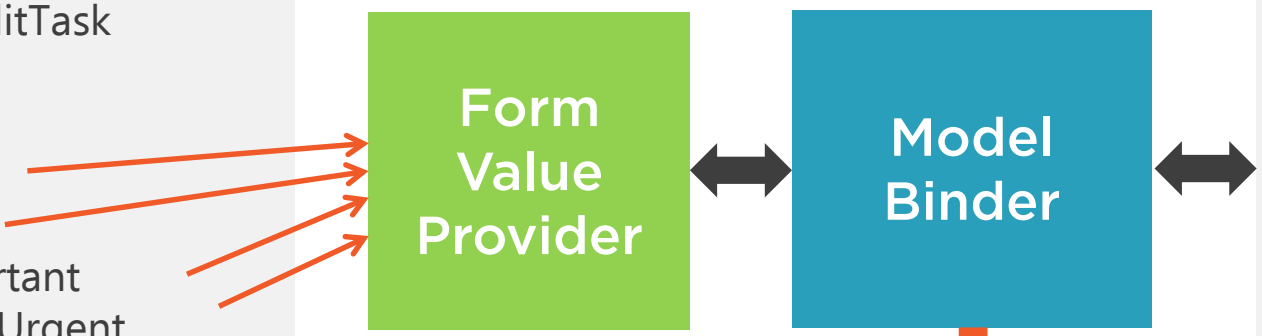

```
public ActionResult CreateEdit(int id)
{
        return View();
}
```

Binding Complex Types

HttpRequest (Simplified)

```
POST /Task/CreateEditTask
Host: localhost:64201

Title=Follow+up
&CategoryId=4
&Notes=Very+Important
&Description=Very+Urgent
```



Task Class

```
public class Task {
  public string Title{}
  public string Category{}
  public string Notes{}
  public string Description{}
}
```

New Task Instance

```
public ActionResult CreateEdit(Task id)
{
        return View();
}
```

```
public interface IModelBinder

{

        object BindModel(ControllerContext controllerContext,     ModelBindingContext
bindingContext);

}
```

The IModelBinder Interface

For custom behavior, extend the DefaultModelBinder, or create your own

```
public interface IValueProvider
{
        bool ContainsPrefix(string prefix);
        ValueProviderResult GetValue(string key);
}
```

The IValueProvider Interface

Add your own data sources to the Model Binding process

Applying Model Binding Concepts

Summary

The Model Binder maps request data to Action Method parameters

Value Providers extract data from the request for the Model Binder to use

Razor Provides helpers to streamline model binding and creating forms