Models In The MVC Framework
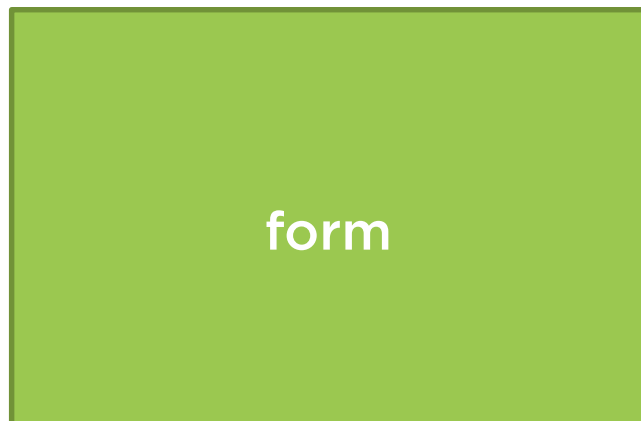
Scott Allen

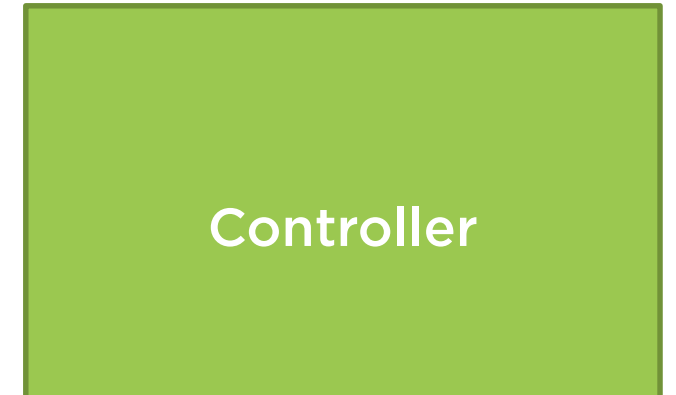@OdeToCode – http://OdeToCode.com

Models and ViewModels

Database

Needs:
Name
Address
Cuisine Type

Entity Model

View Model or DTO

Restaurant Edit View

Needs:
Name
Address
Cuisine Type
List of all cuisines
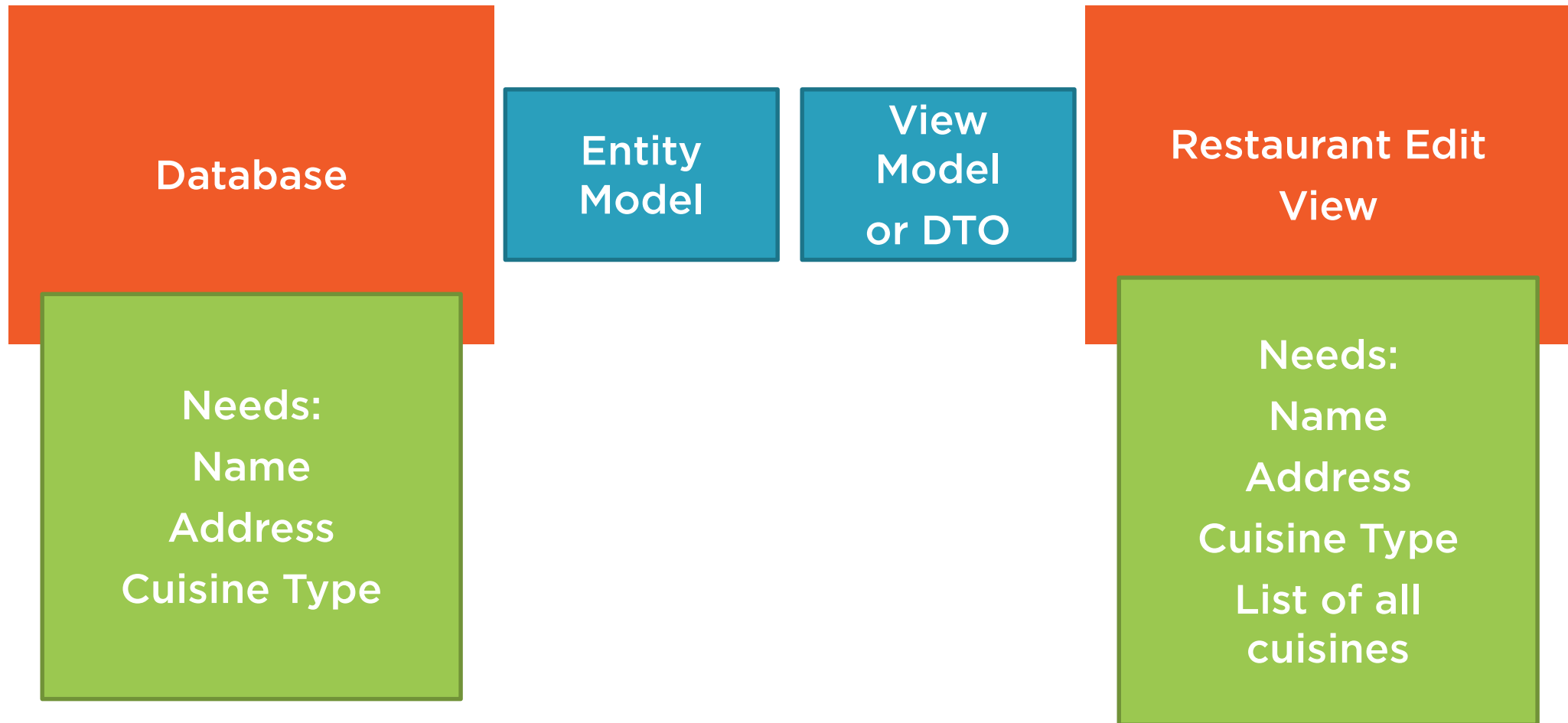
Create a Restaurant

form

input type="text" name="Name"

GET

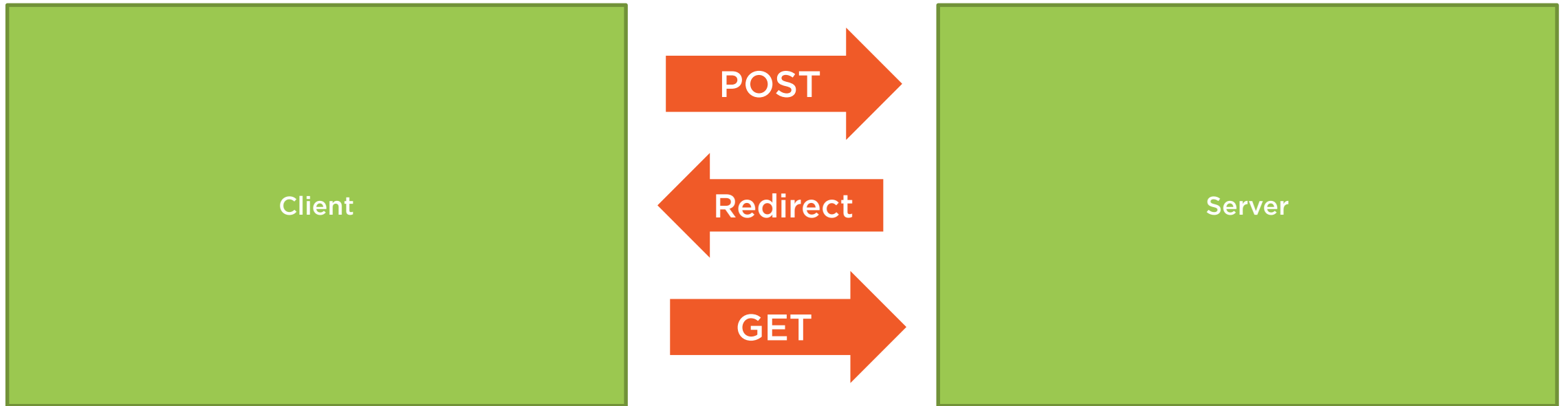POST

Controller

ViewResult Create(EditRestaurant model)

Forms To Models

name=Dolce
&
cuisine=1

POST

"Dolce" -> model.Name
CuisineType.Italian -> model.Cuisine

POST – REDIRECT – GET Pattern

Client

POST →

← Redirect

GET →

Server

Data Annotations for Models

Name	Purpose
MinLength / MaxLength	Enforce length of strings
Range	Enforce min and max numbers
RegularExpression	Make a string match a pattern
Display	Set the name and formatting string
DataType	Render as password or email input
Required	Model value is mandatory
Compare	Commonly used for password validation

Summary

```
public class RestaurantEditModel
{
    [Required
    public st
    public Cu
}
```

```
[HttpPost]
[ValidateAntiForgeryToken]
public IActionResult Create(RestaurantEditModel model)
{
    if (ModelState.IsValid)
    {
        var newRestaurant = new Restaurant();
        newRestaurant.Name = model.Name;
        newRestaurant.Cuisine = model.Cuisine;

        newRestaurant = _restaurantData.Add(newRestaurant);

        return RedirectToAction(nameof(Details),
            new { id = newRestaurant.Id });
    }
    else
    {
        return View();
    }
}
```

```
Name"></label>
Name" />
tion-for="Name"></span>
```