

# C# Web - MVC

PRO - C# Web 1

### DE HOGESCHOOL MET HET NETWERK

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# Doel

- ASP.Net Core toepassing
  - MVC Web Application
    - Models
    - Views
    - Controllers
  - Entity framework
    - Table reference keys
  - Uitleg project



# **ASP.NET CORE**

**MVC Web Application** 

## **Models folder**

Add Team.cs

### **Controllers folder**

Add TeamController.cs

#### **Views folder**

- Add folder Team
  - Scaffold Razor View Index List Template Team Model
  - Scaffold Razor View Create Create Template Team Model
  - Geen Data context class selecteren

```
public class ApplicationDbContext : DbContext
{
    public ApplicationDbContext(DbContextOptions<ApplicationDbContext> options) : base(options)
    {
      }
      public DbSet<Player> Players { get; set; }
      public DbSet<Team> Teams { get; set; }
}
```

### **Dependency Injection**

- TeamController
  - Add Constructor
    - TeamController(DbContext Service)

```
public class TeamController : Controller
{
    ApplicationDbContext _context;
    public TeamController(ApplicationDbContext context)
    {
        _context = context;
        _context.Database.EnsureCreated();
    }
    // ... Code not shown for clarity
```

- TeamController
  - Read data
    - Index

```
public IActionResult Index()
{
    var teams = _context.Teams;
    return View(teams);
}
```

- TeamController
  - Insert data
    - Create

```
[HttpGet]
public IActionResult Create()
    var team = new Team();
    return View(team);
[HttpPost]
public IActionResult Create(Team team)
{
    if (ModelState.IsValid)
        _context.Teams.Add(team);
        context.SaveChanges();
        return RedirectToAction("Index");
    return View(team);
```

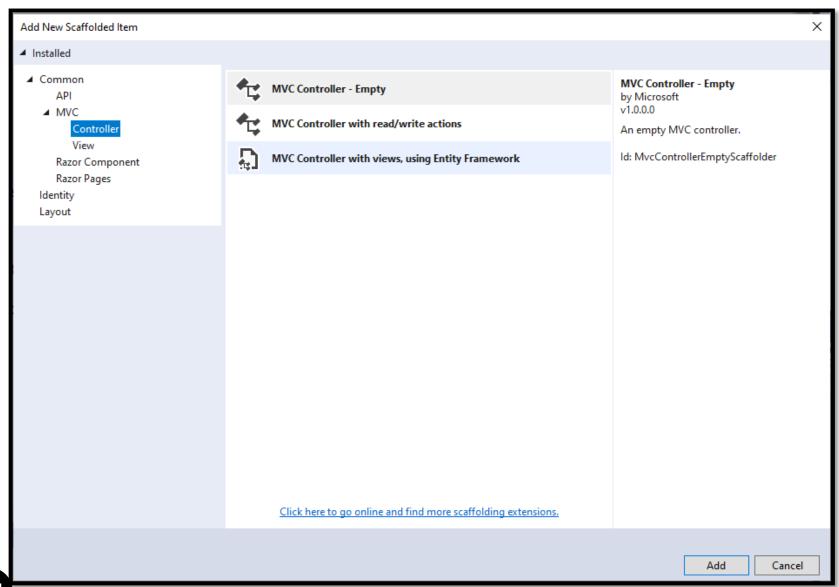
- Styling the content
  - Views/Shared
    - \_Layout.cshtml

#### **Models folder**

Add TeamPlayer.cs

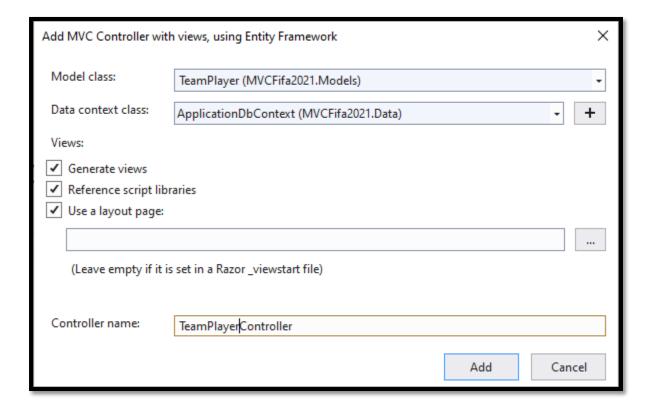
```
namespace MVCFifa2021.Models
{
    public class TeamPlayer
    {
        public int Id { get; set; }
        public int TeamId { get; set; }
        public int PlayerId { get; set; }
        public DateTime StartDate { get; set; }
        public DateTime EndDate { get; set; }
}
```

## Scaffold – New controller



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### Scaffold – New controller





- Styling the content
  - Views/Shared
    - \_Layout.cshtml

```
<div class="row">
    <div class="col-1"></div>
    <div class="col-3">
       <br />
       <a asp-controller="Player" asp-action="Index">Players</a>
        <br />
       <a asp-controller="Team" asp-action="Index">Teams</a>
        <br />
        <a asp-controller="TeamPlayer" asp-</pre>
action="Index">Teamplayers</a>
    </div>
```

#### Database

- EnsureCreated()
  - Database is ondertussen gewijzigd in onze ApplicationDbContext
  - We moeten database wissen zodat hij ook de nieuwe tabellen aanmaakt via het EnsureCreated() commando
- Migrations



#### AddModelError

```
public async Task<IActionResult>
Create([Bind("Id,TeamId,PlayerId,StartDate,EndDate")] TeamPlayer teamPlayer)
{
    if (ModelState.IsValid)
        if (_context.Players.Where(x => x.PlayerId ==
teamPlayer.PlayerId).Count() == 0)
            ModelState.AddModelError("Error", "Er bestaat geen link tussen de
pleyerid uit de 2 tabellen!");
            return View(teamPlayer);
        else
```

## **ASP.NET CORE**

**MVC Web Application – Project**