

. NET-programmering

View Component



Welcome to my demo!

Student List

Id	Code	Name	Enrollment No
1	L0001	Amelia Gundersson	201804150001
2	L0002	Charlie Jansson	201804150002
3	L0003	Bertil Paulsson	201804150003

Teacher List

Id CodeName1TTTomas Trivial2JCJonas Cluedo3RMRakel Monopol

Course List

Choose Course



Teacher Detail

1

Tomas Trivial

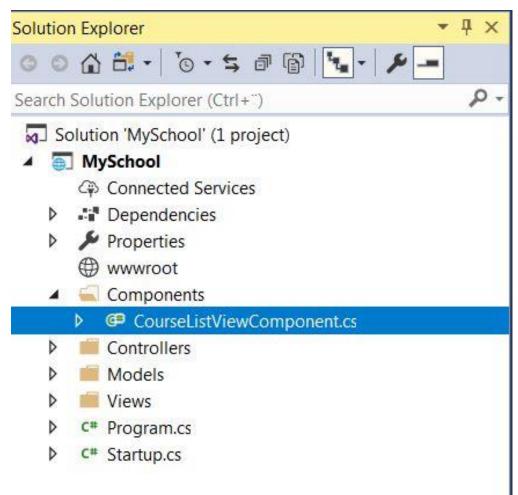
TT



View Component

- Vanlig C# klass
 - Ger Partial View data
 - Se den som en speciell Action
 - Kan inte ta emot HTTP requests
 - Datat inkluderas i föräldravyn
- Kan skapas på 3 olika sätt
 - En POCO View Component
 - Ärva av ViewComponent basklass
 - Använda ViewComponent Attribut





Exempel



ViewComponent (exempel)

```
CourseListViewComponent.cs 🖶 🗙
MySchool
                                                     MvSchool.Components.Cour.
          _using Microsoft.AspNetCore.Mvc;
            using MySchool.Models;
          Enamespace MySchool.Components
     5
              public class CourseListViewComponent: ViewComponent
     6
                private ISchoolRepository repository;
     9
    10
                public CourseListViewComponent(ISchoolRepository repo)
    11
                  repository = repo;
    12
    13
    14
                public IViewComponentResult Invoke()
    15
    16
    17
                  return View("CourseList", repository.Courses);
    18
    19
    20
    21
```



* 1 X Solution Explorer 0. Search Solution Explorer (Ctrl+") Solution 'MySchool' (1 project) MySchool Connected Services Dependencies Properties ⊕ wwwroot Components Controllers Models Exam Home Shared Components CourseList CourseList.cshtml BasicLayout.cshtml _ViewImports.cshtml _ViewStart.cshtml C# Program.cs C# Startup.cs

Exempel forts



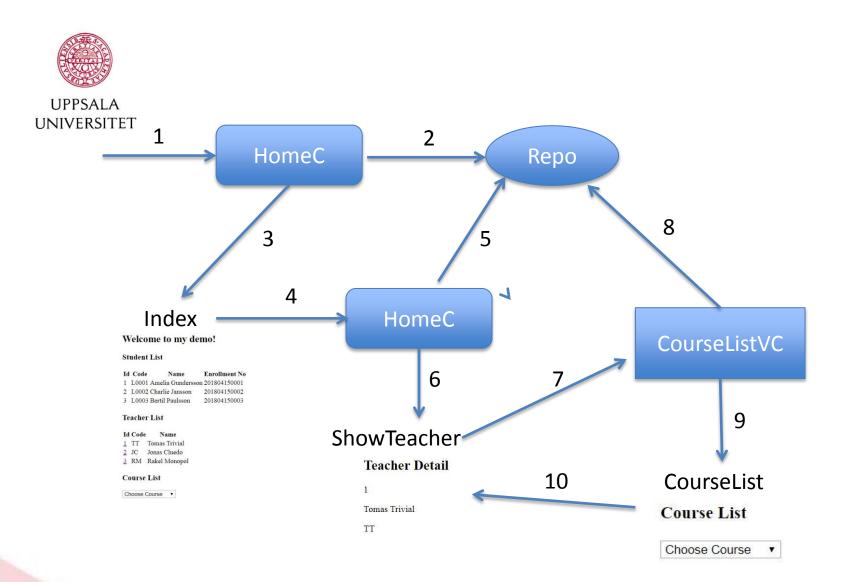
CourseList

```
CourseListComponent.cs
           @model IEnumerable<Course>
     3
4
5
           <h3>Course List</h3>
          -<select>
               <option>Choose Course</option>
               @foreach (Course course in Model)
                  <option>@course.Name</option>
    10
           </select>
    11
```



ShowTeacher

```
ShowTeacher.cshtml + X CourseList.cshtml
                                        CourseListViewComponent.
           @model Teacher
           <h2>Teacher Detail</h2>
          - <div>
               @Model.TeacherID
               @Model.Name
               @Model.Code
    10
           </div>
    11
    12
                   Component.InvokeAsync("CourseList")
           @await
```

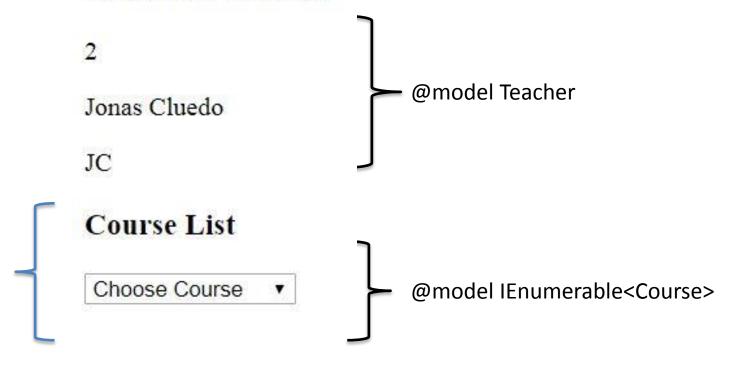




ViewComponent

Slutresultatet

Teacher Detail



Parameter till ViewComponent



Interface och Repository

ISchoolRepository.cs

Task<Teacher> GetTeacherDetail(int id);

FakeSchoolRepository.cs

```
public Task<Teacher> GetTeacherDetail (int id)
{
  return Task.Run(() =>
  {
    var teacherDetail = Teachers.Where(td => td.TeacherID == id).First();
    return teacherDetail;
  });
}
```



HomeController

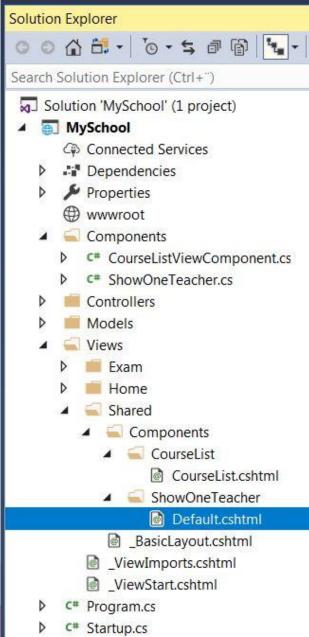
```
public ViewResult ShowTeacher(int id)
{
    ViewBag.Tid = id;
    return View();
}
```



ShowOneTeacher - komponent

```
ShowOneTeacher.cs ₽ ×
MySchool
                                                     MySchool.Components.ShowOneTea

    using System.Threading.Tasks;
            using MySchool.Models;
            using Microsoft.AspNetCore.Mvc;
      3
      4
          Inamespace MySchool.Components
              public class ShowOneTeacher: ViewComponent
     9
                private ISchoolRepository repository;
     10
                public ShowOneTeacher(ISchoolRepository repo)
     11
     12
     13
                  repository = repo;
     14
     15
                public async Task<IViewComponentResult> InvokeAsync(int id)
     16
     17
                  var objectOfTeacher = await repository.GetTeacherDetail(id);
     18
                  return View(objectOfTeacher);
     19
     20
     21
     22
     23
```



ShowOneTeacher - vy



ShowTeacher-vy

- @await Component.InvokeAsync("ShowOneTeacher", ViewBag.Tid)
- @await Component.InvokeAsync("CourseList")

<vc:show-one-teacher id="@ViewBag.Tid"></vc:show-one-teacher>

<vc:course-list></vc:course-list>



Tag Helper



Resultatet

Teacher Detail (från component)

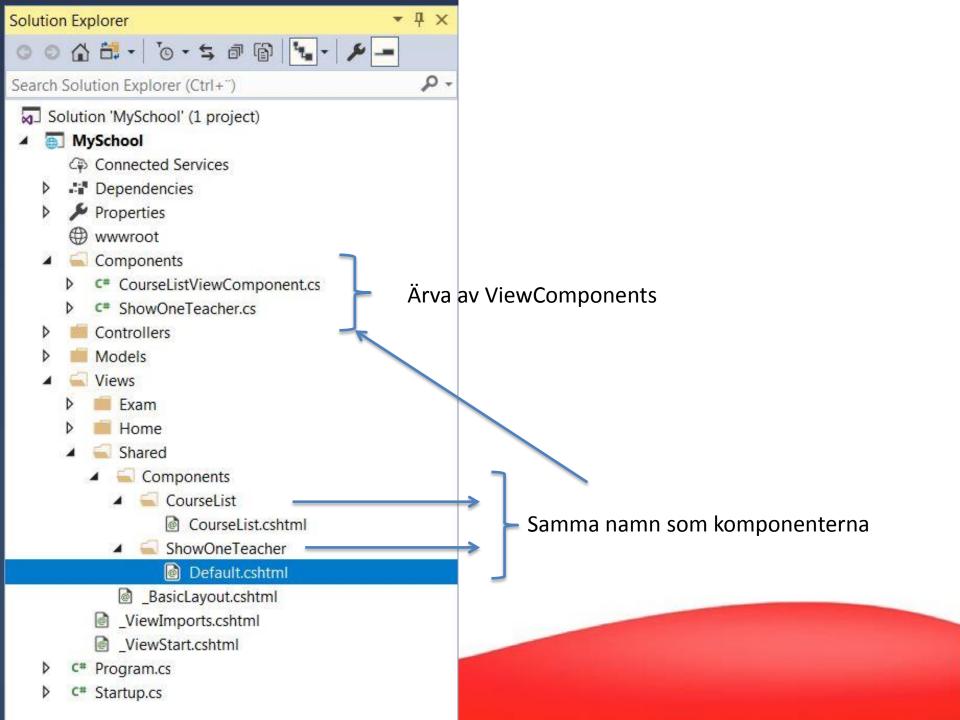
2

Jonas Cluedo

JC

Course List (från component)

Choose Course





CourseListViewComponent

```
public IViewComponentResult Invoke()
{
    return View("CourseList", repository.Courses);
}
```

ShowOneTeacher

```
public async Task<IViewComponentResult> InvokeAsync(int id)
{
   var objectOfTeacher = await repository.GetTeacherDetail(id);
   return View(objectOfTeacher);
}
```



OBS!!!!! LÄS NÄSTA UPPGIFT NOGA

Ni ska INTE skapa massor av Partial Views och View Component i nästa uppgift