Automapper

Automapper, à quoi ça sert?

```
public class Todoltem

{

[Key]

[DatabaseGenerated(DatabaseGeneratedOption.Identity)]

public int Id { get; set; }

public int Id { get; set; }

public string Title { get; set; }

}

MAP

ViewModel

{

public class TodoltemDeleteViewModel

{

public int Id { get; set; }

public string Title { get; set; }

}
```

```
public virtual ActionResult Delete(int todoltemId)
{
    var todoltem = _todoltemRepository.GetById(todoltemId);
    if (todoltem != null)
    {
        var todoltemDeleteViewModel = new TodoltemDeleteViewModel()
        {
            ld = todoltem.Id,
            Title = todoltem.Title
        };
        return View(todoltemDeleteViewModel);
      }
    return HttpNotFound();
}
```

var todoItemViewModel = Mapper.Map<TodoItemDeleteViewModel>(todoItem);

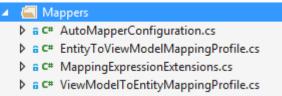
Avec Automapper

Installation d'Automapper

Ajouter au projet le "package" **Automapper**



https://gist.github.com/ymazieres/74dd4746ce4813494ba9



Dans le projet web, ajouter les 4 classes suivantes dans un dossier nommé Mappers

Ajouter l'instruction AutoMapperConfiguration.Configure()

```
public class MvcApplication : System.

{
    protected void Application_Start()
    {
        AreaRegistration.RegisterAllAreas();
        RouteConfig.RegisterRoutes(RouteTable.Routes);
        Database.SetInitializer(new DatabaseInitializer());
        AutoMapperConfiguration.Configure();
        ...
```

```
[TestInitialize]
public void test_initialize()
{
    AutoMapperConfiguration.Configure();
...
```

Exemple de mappage

```
public class Todoltem
{

[Key]

[DatabaseGenerated(DatabaseGeneratedOption.Identity)]

public int Id { get; set; }

public int Id { get; set; }

public string Title { get; set; }

}

MAP

Public class TodoltemDeleteViewModel

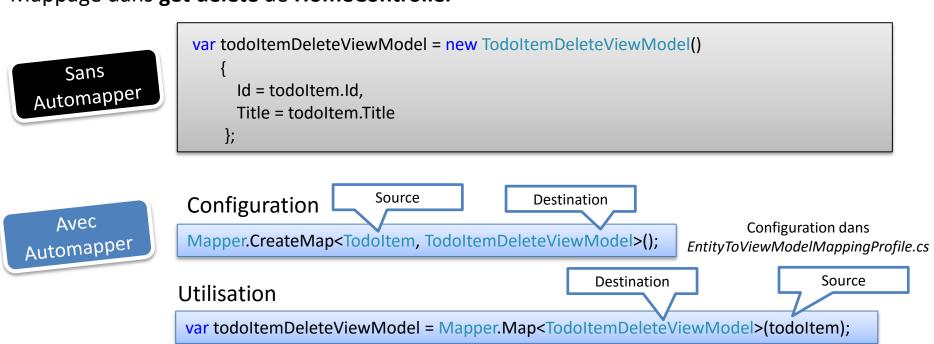
{

public int Id { get; set; }

public string Title { get; set; }

}
```

Mappage dans get delete de HomeController



Exemple de mappage

```
public class TodoltemCreateViewModel
{
    [StringLength(30)]
    [DisplayName("Tâche")]
    [Required(ErrorMessage = "Requis")]
    public string Title { get; set; }
}
[StringLength(30)]
public string Title { get; set; }

[StringLength(30)]
public string Title { get; set; }
}
```

Mappage dans post create de HomeController

```
Sans
Automapper

Var todoltem = new Todoltem()

{
    Title = viewModel.Title
};
```

Avec Automapper

Configuration

```
Mapper.CreateMap<TodoItemCreateViewModel, TodoItem>()
    .ForMember(dest => dest.Id, opt => opt.Ignore());
```

Configuration dans

ViewModelToEntityMappingProfile.cs

Utilisation

```
var todoltem = Mapper.Map<Todoltem>(todoltemCreateViewModel);
```

public class Todoltem
{
 [Key]
 [DatabaseGenerated(DatabaseGeneratedOption.Identity)]
 public int Id { get; set; }
 [StringLength(30)]
 public string Title { get; set; }

public class TodoltemIndexViewModel
 {
 public int Id { get; set; }
 public string Title { get; set; }
 }

Mappage d'une liste (exemple get Index de HomeController)

Sans Automapper

Avec Automapper

Configuration

Mapper.CreateMap<Todoltem, TodoltemIndexViewModel>();

Configuration dans ViewModelToEntityMappingProfile.cs

Utilisation

var indexViewModels = Mapper.Map<|Enumerable< TodoItemIndexViewModel>>(todoItems);