Automapper

Automapper, à quoi ça sert?

```
public class Todoltem
{

[Key]

[DatabaseGenerated(DatabaseGeneratedOption.Identity)]

public int Id { get; set; }

[StringLength(30)]

public string Title { get; set; }

}

Model

namespace Todo.Web.ViewModels.Home

{

public class Delete

{

public int Id { get; set; }

public string Title { get; set; }

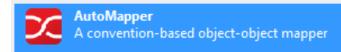
}
```

var todoItemViewModel = Mapper.Map<ViewModels.Home.Delete>(todoItem);

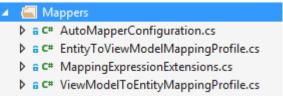
Avec Automapper

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();
...
```

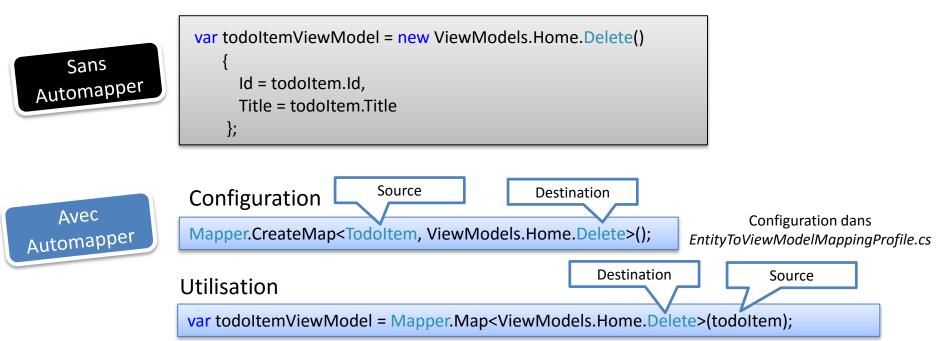
Exemple de mappage

```
public class Todoltem
{
    [Key]
    [DatabaseGenerated(DatabaseGeneratedOption.ldentity)]
    public int Id { get; set; }

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

Inamespace Todo.Web.ViewModels.Home
{
    public class Delete
    {
        public int Id { get; set; }
        public string Title { get; set; }
    }
}
```

Mappage dans **get delete** de **HomeController**



Exemple de mappage

```
namespace Todo.Web.ViewModels.Home
{

public class Create
{

[StringLength(30)]

[DisplayName("Tâche")]

[Required(ErrorMessage = "Requis")]

public string Title { get; set; }

}

}

public class Todoltem

[Key]

[DatabaseGenerated(DatabaseGeneratedOption.Identity)]

public int Id { 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<ViewModels.Home.Create, Todoltem>()
.ForMember(dest => dest.Id, opt => opt.Ignore());
```

Configuration dans

ViewModelToEntityMappingProfile.cs

Utilisation

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

Exemple de mappage

```
public class Todoltem

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

| MAP | ViewModel
| namespace Todo.Web.ViewModels.Home
| public class Index
| public int Id { get; set; }
| public int Id { get; set; }
| public string Title { get; set; }
| }
| }
```

Mappage dans **get Index** de **HomeController**

Sans Automapper

Avec Automapper

Configuration

Mapper.CreateMap<Todoltem, ViewModels.Home.Index>();

Configuration dans ViewModelToEntityMappingProfile.cs

Utilisation

var indexViewModels = Mapper.Map<|Enumerable<ViewModels.Home.Index>>(todoItems);