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# WEB PROGRAMMING ASP.NET MVC CORE

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# SCAFFOLDING

You can sit down and think about the problem you want to solve, and write plain C# classes, such as Album, ShoppingCart, and User, to represent the primary objects involved. When you are ready, you can then use tools provided by MVC to construct the controllers and views for the standard index, create, edit, and delete scenarios for each of the model objects. The construction work is called *scaffolding*.

BOOKS PROJECT



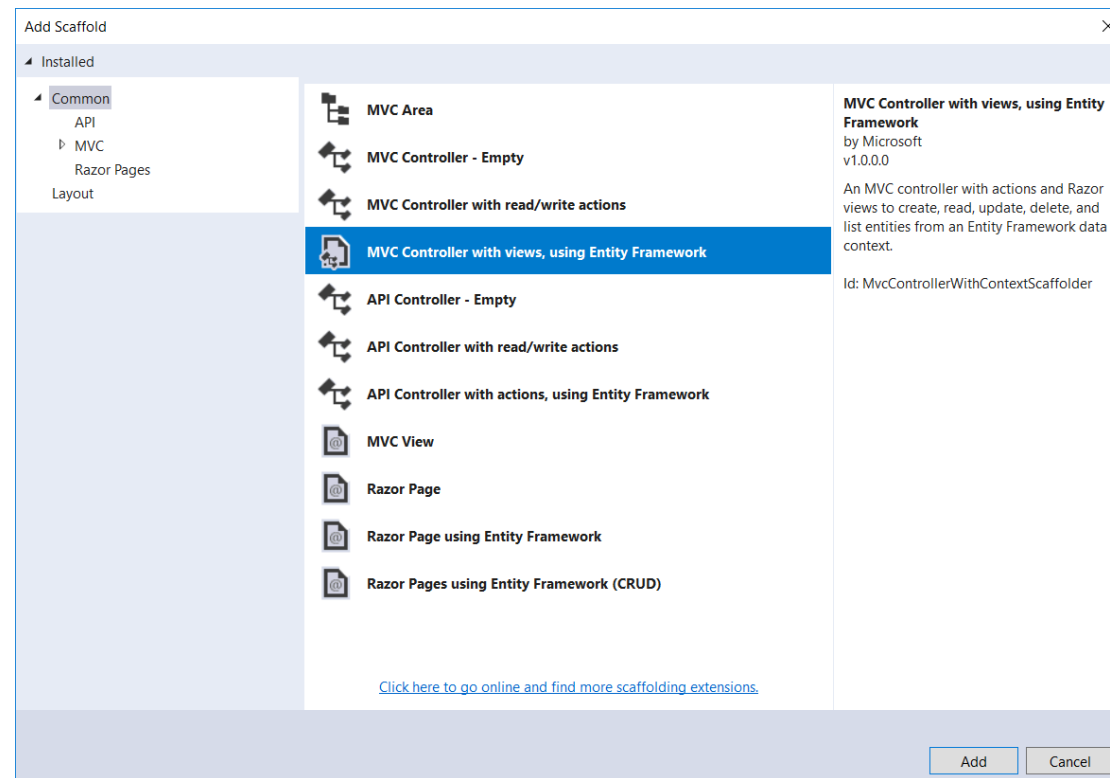
# AUTHOR CLASS

```
namespace Books.Models {  
    public class Author {  
        public int AuthorId { get; set; }  
  
        [Required]  
        [StringLength(256)]  
        public string Name { get; set; }  
        public ICollection<Book> Books { get; set; }  
    }  
}
```

# BOOK CLASS

```
public class Book {  
    public int BookId { get; set; }  
  
    [Required]  
    [StringLength(512)]  
    public string Title { get; set; }  
  
    public string Description { get; set; }  
  
    public int AuthorId { get; set; }  
    public Author Author { get; set; }  
}
```

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# SCAFFOLDING

Add MVC Controller with views, using Entity Framework ✕

Model class: Book (Books.Models) ▼

Data context class: BooksDbContext (Books.Data) ▼ +

Views:

☒ Generate views

☒ Reference script libraries

☒ Use a layout page:

...

(Leave empty if it is set in a Razor \_viewstart file)

Controller name: BooksController

Add Cancel

# ROUTING

```
public void Configure(IApplicationBuilder app, IHostingEnvironment env) {  
    // ...  
  
    app.UseMvc(routes => {  
        routes.MapRoute(  
            name: "default",  
            template: "{controller=Product}/{action=List}/{id?}");  
        });  
  
    // ...  
}
```