**Initial api creation steps**

1. Create web project
   1. ASP.NET Core Web API template
   2. Use controllers
2. Update launch URL in launchSettings to api/todoitems
3. Add TodoItem model class
4. Add NuGet packages for entity framework
   1. Microsoft.EntityFrameworkCore.DbContext
   2. Microsoft.EntityFrameworkCore.InMemory (not sure if we’ll use this when designing an api that comes with a database, seems like this documentation is avoiding using a separate SQL database and just doing everything in-house?)
5. Create context class (in the documentation you do this by hand, if you do it the way johnny does it then you can just scaffold the context classes based on tables from a connection string. Not sure which is best practice.)
6. Register database context (Program.cs)
   1. Comment out all the swagger stuff
   2. builder.Services.AddDbContext<TodoContext>(opt => opt.UseInMemoryDatabase("TodoList"));
   3. Looks like the above command takes into consideration the use of in memory database. I wonder if to do it regularly you just omit the lambda expression
7. Create controller (According to this documentation you use the scaffold option when you create the controller. I guess this probably saves time on boilerplate stuff if you know you’re using entity framework?)
   1. Add > new scaffolded item
   2. API controller with actions, using Entity Framework
   3. TodoItem as the model class
   4. TodoContext as the Data context class
   5. This saves time if you know exactly what model and data context you are using for this controller. I wonder if the convention is that each controller should correspond to a single item/data model, and therefore so should all endpoints on that controller.

**Hitting the API using httprepl**

**Note: wonder if there is a reason for this or if it is just the writer’s preferred method of hitting the api. Should probably test with postman**

1. Install httprepl using command line
   1. dotnet tool install -g Microsoft.dotnet-httprepl
2. Run app and connect to instance via httprepl
   1. httprepl [https://localhost:<port>/api/todoitems](https://localhost:%3cport%3e/api/todoitems)
3. Test post
   1. post -h Content-Type=application/json -c <jsonobject>
4. Test Get
   1. connect [https://localhost:<port>/api/todoitems/<id](https://localhost:%3cport%3e/api/todoitems/%3cid)>
      1. get
   2. connect [https://localhost:<port>/api/todoitems](https://localhost:%3cport%3e/api/todoitems)
      1. get