Build the project before running it to restore NuGet packages. This project was created with Visual Studio 2015, it may not restore/work properly with older versions.

I chose to do the To-Do List using Web API, .NET, and C#. I also used angular.js, TypeScript, Bootstrap, Entity Framework, and Ninject.

The todos are stored in a simple database. I used the MVC pattern with a view → angular controller → angular service → C# controller → C# repository architecture. I wrote everything myself with the exception of the generic repository, which I copied from a template (I find generic repositories to be a very nice tool that essentially just enhances the functionality of your custom repositories).

Please note that while I do understand the basics, as well as the importance of unit testing (not only for ensuring error-free code, but also for enforcing good code structure and modularity), I am still learning how to use C# unit tests with dependency injection and I am still learning how to use Jasmine with Typescript and Angular. There are many more tests that I would have done in this project (especially on the frontend), but I haven't quite figured out how to implement them yet. Also, I am aware that this code is vulnerable to SQL injection and other kinds of attacks (I didn't implement any security features because I didn't want to spend too much time on the backend).