**AIHiringAssignment**

This restaurant system made via *C# Web Api (.Net Framework 4.7.2), Angular (8) with Database in MSSQL* allows the user to

* Add new ingredients
* Update Ingredient name and price
* Delete them
* Multiple **Ingredients** can be selected from the *multi select* list and given a recipe name to store it in the database.
* Every recipe is put again in the list of Ingredients as It may be Intermediate Inventory or used as Ingredient in other recipes
* Every Ingredient or recipe can be deleted -The Ingredients of every recipe and Intermediate Ingredient can be updated
* The price is calculated and shown while you select multiple ingredients
* The price can be manually set as well
* Validation of at least 2 Ingredients to make a recipe
* Name of recipe or ingredient while updating or creating must not be empty

**Structure**

The C# Web Api Project **AfinitiAssignment** folder has its files and the angular app in **AfinitInsightFrontEnd** folder.

**Installation**

* [Visual Studio](https://visualstudio.microsoft.com/) must be installed with *.Net Framework 4.7.2*
* Now open the *AfinitiAssignment.sln* from the folder AfinitAssignment in Visual Studio
* Right Click on the Solution In Visual Studio and Click Restore Nuget Packages to get any missing packages.
* [NodeJS](https://nodejs.org/en/) must be installed.
* Use the **NPM** Node package manager in Terminal/Powershell or Command Prompt to install angular

npm install -g @angular/cli

* Go to the **AfinitInsightFrontEnd** folder and run

npm install

to install any missing modules

* [Microsft SQL Management Studio](https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver15)14 or later must be installed
* Restore the database file *Afinit Database.bak* from the Afinit Assignment folder. [How to Restore](https://docs.microsoft.com/en-us/sql/relational-databases/backup-restore/restore-a-database-backup-using-ssms?view=sql-server-ver15)
* In Visual Studio open **Web.Config** and modify the connection data source part ( *.\SQLEXPRESS* ) to the name of your SQL Server. [Setting up Conenection Strings](https://stackoverflow.com/questions/5642474/setting-up-connection-string-in-asp-net-to-sql-server)

**Usage**

* In Visual Studio click start or press *f5* to run the web api
* Now from the folder *AfinitInsightFrontEnd* in Terminal or Command prompt run

ng serve

to start the Angular app and open **localhost:4200** in any browser.

* That is it!

**Main Code Files**

**Visual Studio:**

* IngredientsController.cs
* RecipesController.cs
* Models Folder all files.

**Angular:**

* ingredient.component.ts
* ingredient.component.html
* ingredient.service.ts
* recipe.services.ts
* api.service.ts