

Backend Documentation

Asp.net I distributed the code three layer Because we can easily maintainable & Testable and everybody can understand code.

ControllerLayer : This layer get the incoming request from the client & get the data from client and send to the service layer and one thing not create directly Service layer object like new we create object using dependency injection because we can easily test code

ServiceLayer: This layer get the data from the controller and handle business logic . ParserService this class extend the Iparser This layer all of the operation perform and parsing the file and this layer also responsible check that all of the data valid or invalid after that they send back data to controller either error or valid data and then controller send back to the client

Model : This layer responsible to all over the data from database but in this project we not using database we only create Bar.cs class that define all of the properties Bar code , color , and bar size and we create the object and store in list

How To Run Program

Back end

Technology Used : Asp.net Webapi

Go to backend folder install visual studio 2017 and after successfully install open this file CodingTest.sln

when project start see it solution Explorer right hand side right click SnowCSharpTest and go to this folder Manage NuGet Packages and you see it restore button click it and install all of the packages After Successfully install go to run button and check the result if browser not open successfully then you need 2 more packaged to install because we connection front end angular.

So go to press tool button from the top of the menu and then go to Nuget Package Manager and then Package Manager console you see it PM open :

and put this command

```
Install-Package Microsoft.AspNet.WebApi.Cors -version 5.2.3
```

and after successfully install and put this command

```
Update-Package Microsoft.AspNet.WebApi -reinstall
```

After successfully install packages go to run button and run the server

Your server must run this port:

`http://localhost:54984/`

and then go back to client side as run port

`http://localhost:4200/`

choose file and upload the server