Appmodule loads appcomponent

Appcomonent has html template specified in index.html

Main.ts – bootstraps appmodule

dotnet watch run -- command to start the CLI from Command Promp

Problems running ng serve –

(Need to run the npm update after you make changes)

You need to do some changes in package.json

1. Go to package.json and modify "rxjs": "^6.0.0" to "rxjs": "6.0.0"
2. Then run npm update in your project

Every Angular file must have at least one app.module file.

This one is app.module.ts. Inside it’s decorated with @NgModule

App.module is loaded by main.ts file, by way of platformBrowserDynamic().bootstrapModule(AppModule).catch(err => console.log(err));

Angular.json – webpak setup

The only way to see observables is to subscribe to them.

ngOnInit – best place to get data – the constructor is too early

CORS – security for api, who’s allowed to use it, by way of header

\*ngFor – Structural directive, always precede with \*

**Command in terminal to install bootstrap and font-awesome**

npm install bootstrap font-awesome

creating the app with ng new --- a git repository is automatically created for you

ADD USER TO DATABASE

CREATE MIGRATION

dotnet ef migrations add AddedUserEntity

UPDATE MIGRATION

Dotnet ef database update

Why we should use the repository pattern

* Minimizes duplicate query logic
* Decouples application from persistence framework
* All DB queries in the same place
* Promotes testability

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In the Startup.cs file we tell the application about the IAuthRepository and AuthRepository classes.

services.AddScoped – service created once per request (this one used)

services.AddTransient – service created each time

services.AddSingleton – service created once.

Inheriting from

ControllerBase – without view support

DTO – Data Transfer Object – an object that carries between processes

(When you're working with a remote interface, such as Remote Facade (388), each call to it is expensive. As a result you need to reduce the number of calls, and that means that you need to transfer more data with each call. One way to do this is to use lots of parameters. However, this is often awkward to program - indeed, it's often impossible with languages such as Java that return only a single value.

The solution is to create a Data Transfer Object that can hold all the data for the call. It needs to be serializable to go across the connection. Usually an assembler is used on the server side to transfer data between the DTO and any domain objects.

<https://martinfowler.com/eaaCatalog/dataTransferObject.html>

)

Data Annotations

[ApiController] allows asp.net.core.mvc to infer where the data is coming from in terms of parameters for a method

Could use if (!ModelState.IsValid) inside to validate the request

**Section 3**

Token Authentications

JWTs – Json Web Tokens

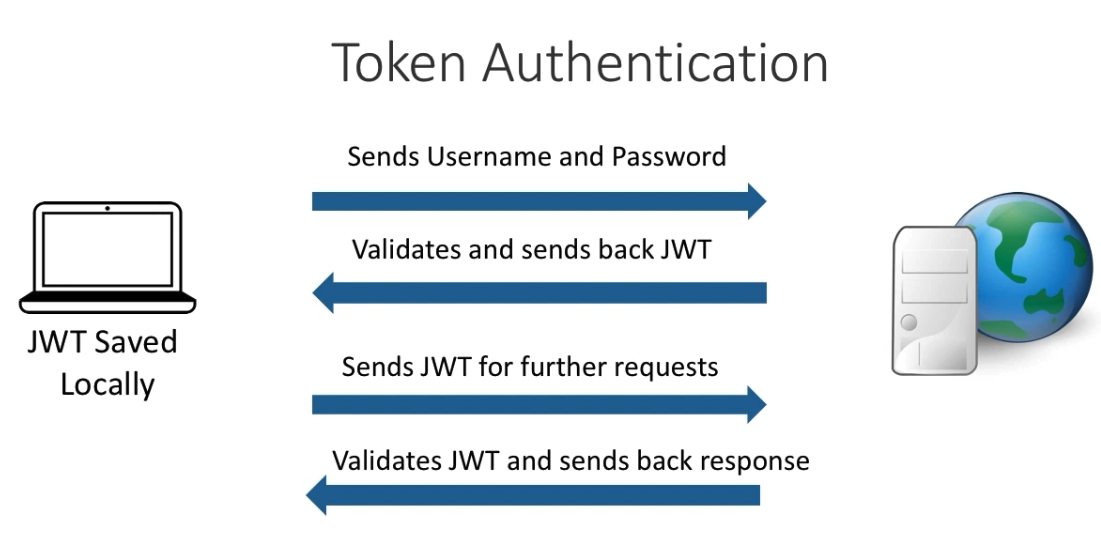
* Industry standard for tokens
* Self-contained and can contain:
  + Credentials
  + Claims
  + Other Information
* 

Nbf – not befor

Exp - expiration

Iat = issued at

Secret used to encode header and payload.



Site where you can check the token:

<https://jwt.io/>