App.component.html:

<div class="container">

<app-menu></app-menu>

<hr>

<router-outlet></router-outlet>

</div>

App-routing.module.ts:

import { BrowserModule } from '@angular/platform-browser';

import { NgModule } from '@angular/core';

import { AppComponent } from './app.component';

import { CurrencyComponent } from './currency/currency.component';

import { MovieComponent } from './movie/movie.component';

import { WeatherComponent } from './weather/weather.component';

import { MenuComponent } from './menu/menu.component';

import { AppRoutingModule } from './app-routing.module';

import { SharedService} from './shared.service';

import { FormsModule} from '@angular/forms';

import { HttpClientModule } from '@angular/common/http';

@NgModule({

declarations: [

AppComponent,

CurrencyComponent,

MovieComponent,

WeatherComponent,

MenuComponent,

],

imports: [

BrowserModule,

AppRoutingModule,

HttpClientModule,

FormsModule

],

providers: [SharedService],

bootstrap: [AppComponent]

})

export class AppModule { }

shared.SERVICE.ts:

import { Injectable,Injector } from '@angular/core';

import { Observable, of } from 'rxjs';

import { HttpClientModule, HttpClient } from '@angular/common/http';

@Injectable({

providedIn: 'root'

})

export class SharedService {

constructor( private injector :Injector,private httpClient : HttpClient) { }

public getWeather(city: string): Observable<any> {

var weathereAPIurl = 'https://query.yahooapis.com/v1/public/yql?q=select \* from weather.forecast where woeid in (select woeid from geo.places(1) where text="' + city + '")&format=json&env=store%3A%2F%2Fdatatables.org%2Falltableswithkeys ';

return this.httpClient.get(weathereAPIurl);

}

public getCurrency(currency: String): Observable<any> {

var currencyAPIurl = 'https://data.fixer.io/api/latest?base=' + currency;

return this.httpClient.get(currencyAPIurl);

}

public getMovie(movieName:String): Observable<any> {

var movieapiurl ='http://www.omdbapi.com/?t=%27'+movieName+'%27&apikey=8b8b3f2'

return this.httpClient.get(movieapiurl);

}

}

Menu.component.html:

<ul class="navbar-nav mr-auto">

<li class="nav-item" routerLinkActive="active" [routerLinkActiveOptions]="{exact: true}">

<a class="nav-link" routerLink="/weather">Weather</a>

</li>

<li class="nav-item" routerLinkActive="active">

<a class="nav-link" routerLink="/movie">Movie</a>

</li>

<li class="nav-item" routerLinkActive="active">

<a class="nav-link" routerLink="/currency">Currency</a>

</li>

<ng-content></ng-content>

</ul>

Menu.component.ts:

import { Component, OnInit } from '@angular/core';

@Component({

selector: 'app-menu',

templateUrl: './menu.component.html',

styles: []

})

export class MenuComponent implements OnInit {

constructor() { }

ngOnInit() {

}

}

Weather.component.html:

<p>

weather works!

</p>

<input type = "text" style="width: 100px;" class="form-control" id="txtweather" [(ngModel)] = "txtweather" required/>

<br><br>

<input type = "button" value="GetWeather" (click) = "GetWeather()"/>

<div>

{{data | json}}

</div>

Weather.component.ts:

import { Component, OnInit } from '@angular/core';

import { SharedService } from './../shared.service';

@Component({

selector: 'app-weather',

templateUrl: './weather.component.html',

styles: []

})

export class WeatherComponent implements OnInit {

data:any;

public txtweather : string = "bengaluru";

constructor(private sharedservice : SharedService) { }

ngOnInit() {

}

public GetWeather(){

this.sharedservice.getWeather(this.txtweather).subscribe(res=>

{

this.data = res;

}

);

}

}

Movie.component.html:

<p>

movie works!

</p>

<input type = "text" style="width: 100px;" class="form-control" id="txtmovie" [(ngModel)] = "txtmovie" required/>

<br><br>

<input type = "button" value="GetMovie" (click) = "GetMovie()"/>

<div>

{{data | json}}

</div>

Movie.component.ts:

import { Component, OnInit } from '@angular/core';

import { SharedService } from './../shared.service';

@Component({

selector: 'app-weather',

templateUrl: './weather.component.html',

styles: []

})

export class WeatherComponent implements OnInit {

data:any;

public txtweather : string = "bengaluru";

constructor(private sharedservice : SharedService) { }

ngOnInit() {

}

public GetWeather(){

this.sharedservice.getWeather(this.txtweather).subscribe(res=>

{

this.data = res;

}

);

}

}

Currency.component.html:

<p>

currency works!

</p>

<input type = "text" style="width: 100px;" class="form-control" id="txtcurrency" [(ngModel)] = "txtcurrency" required/>

<br><br>

<input type = "button" value="GetCurrency" (click) = "GetCurrency()"/>

<div>

{{data | json}}

</div>

Currency.component.ts:

import { Component, OnInit } from '@angular/core';

import { SharedService } from './../shared.service';

@Component({

selector: 'app-currency',

templateUrl: './currency.component.html',

styles: []

})

export class CurrencyComponent implements OnInit {

data:any;

public txtcurrency : string = "USD";

constructor(private sharedservice : SharedService) { }

ngOnInit() {

}

public GetCurrency(){

this.sharedservice.getCurrency(this.txtcurrency).subscribe(res=>

{

this.data = res;

}

);

}

}

Output:





