**App.Module.ts**

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

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

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

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

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

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

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

import { RouterModule, Routes} from '@angular/router'

import { SharedService} from './Shared/Shared.Service'

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

import { config } from 'rxjs';

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

const approutes: Routes=[

{path: 'weather', component:WeatherComponent},

{path: 'movie', component:MovieComponent },

{path: 'curreny', component:CurrencyComponent}

];

@NgModule({

declarations: [

AppComponent,

MenuComponent,

WeatherComponent,

MovieComponent,

CurrencyComponent

],

imports: [

BrowserModule,[RouterModule.forRoot(approutes,{enableTracing : true}), HttpClientModule , FormsModule]

],

providers: [SharedService],

bootstrap: [AppComponent]

})

export class AppModule {

}

**App.Component.TS**

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

@Component({

selector: 'app-root',

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

styleUrls: ['./app.component.css']

})

export class AppComponent {

title = 'My Angular 2 app works' ;

}

**App.Component.html**

<!--The content below is only a placeholder and can be replaced.-->

<div style="text-align:center">

<h1 style="text-align: left ">

<!-- {{ title }}! -->

</h1>

<app-menu></app-menu>

<br>

<hr>

<router-outlet></router-outlet>

</div>

**Shared.Service.ts**

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

import { Observable, of } from 'rxjs';

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

@Injectable()

export class SharedService {

MovieAPIURL = '';

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);

}

}

***Weather Component Folder Files***

**weather.component.ts**

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

import {SharedService } from '../Shared//Shared.Service'

@Component({

selector: 'app-weather',

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

styleUrls: ['./weather.component.css']

})

export class WeatherComponent implements OnInit {

data:any;

public txtWeather: string='TamilNadu';

constructor(private sharedservie: SharedService) {

}

ngOnInit() {

// this.sharedservie.getWeather(this.txtWeather.toString()).subscribe(res=>

// {

// this.data = res;

// });

}

public GetWeatherInfo(){

this.sharedservie.getWeather(this.txtWeather.toString()).subscribe(res=>

{

this.data = res;

});

}

}

**weather.module.ts**

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

import { CommonModule } from '@angular/common';

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

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

@NgModule({

imports: [

CommonModule,BrowserModule, FormsModule

],

declarations: []

})

export class WeatherModule { }

**weather.component.html**

<p>

weather works!

</p>

<input type="text" style="width:130px" class="form-control" id="txtWeather"

required

[(ngModel)]="txtWeather"

name="txtWeather">

<input type="button" value="GetWeatherInfo" (click)="GetWeatherInfo()" >

<div>{{data |json}}</div>

**Currency Component folder files**

**currency.component.ts**

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

import {SharedService} from '../Shared/Shared.Service'

@Component({

selector: 'app-currency',

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

styleUrls: ['./currency.component.css']

})

export class CurrencyComponent implements OnInit {

data:any;

public txtCurrency: string='USD';

constructor(private sharedservice: SharedService) {

}

ngOnInit() {

// this.sharedservice.getCurrency('USD').subscribe(res=>

// {

// this.data = res;

// });

}

public getCurrencyInfor(){

this.sharedservice.getCurrency(this.txtCurrency.toString()).subscribe(res=>

{

this.data = res;

});

}

}

**currency.module.ts**

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

import { CommonModule } from '@angular/common';

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

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

@NgModule({

imports: [

CommonModule,BrowserModule, FormsModule

],

declarations: []

})

export class CurrencyModule { }

**currency.component.html**

<p>

currency works!

</p>

<input type="text" style="width:130px" class="form-control" id="txtCurrency"

required

[(ngModel)]="txtCurrency"

name="txtCurrency">

<input type="button" value="GetCurrencyInfo" (click)="getCurrencyInfor()" >

<div>{{data |json}}</div>

**Movie Component folder files**

**movie.component.ts**

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

import { SharedService } from '../Shared/Shared.Service';

import { fn } from '@angular/compiler/src/output/output\_ast';

@Component({

selector: 'app-movie',

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

styleUrls: ['./movie.component.css']

})

export class MovieComponent implements OnInit {

data: any;

public txtInput: string='thor';

constructor(private sharedservice: SharedService) { }

ngOnInit() {

// this.sharedservice.getMovie('thor').subscribe(res => {

// this.data = res;

// });

}

public getData(){

this.sharedservice.getMovie(this.txtInput.toString()).subscribe(res => {

this.data = res;

});

// this.sharedservice.getMovie('thor').subscribe(res => {

// alert(this.txtInput);

// this.data = res;

// });

}

}

**movie.module.ts**

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

import { CommonModule } from '@angular/common';

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

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

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

@NgModule({

imports: [

CommonModule, BrowserModule, FormsModule

],

declarations: [WeatherComponent]

})

export class MovieModule { }

**movie.component.html**

<p>

movie works!

</p>

<input type="text" style="width:130px" class="form-control" id="txtInput"

required

[(ngModel)]="txtInput"

name="txtInput">

<input type="button" value="GetMovieInfo" (click)="getData()" >

<div>{{data |json}}</div>

**menu.component.html**

<div class="container">

<div class="col-xs-12">

<div class="">

<div class="row">

<li class="nav-item"> <a routerActiveLink="active" routerLink="/weather">Weather</a></li>

</div>

<div class="row">

<li class="nav-item"> <a routerLink="/movie" routerActiveLink="active">movies</a></li>

</div>

<div class="row">

<li class="nav-item"> <a routerActiveLink="active" routerLink="/curreny">Currency</a></li>

</div>

</div>

</div>

</div>

**Output Screen Shots**













