# Angular-Parte 2

## Preparar API rest

Crear en www carpeta Slim y descomprimir api-rest.zip

En phpMyAdmin ejecuar el sql y añadir 4 registros

Se testea: <a href="http://localhost/slim/restaurantes-api.php/restaurantes">http://localhost/slim/restaurantes-api.php/restaurantes</a> y devuelve un Json con los restaurantes

# Comunicaciones http en Angular 2

Estos dos artículos en castellano explican el concepto de los observables y las ventajas respecto AngulaJS y promises.

http://academia-binaria.com/comunicaciones-http-observables-con-angular2/

https://blog.enriqueoriol.com/2016/09/servicio-http-angular-2.html

Este artículo (inglés) profundiza un poco más y comenta el tema de la cancelación de la petición con el método unSubscribe.

https://jaxenter.com/reactive-programming-http-and-angular-2-124560.html

# Preparando el App en Angular2 versión final

#### Main.ts

```
import { platformBrowserDynamic } from '@angular/platform-browser-dynamic';
import { AppModule } from './app.module';
const platform = platformBrowserDynamic();
platform.bootstrapModule(AppModule);
app.module.ts
import { NgModule }
                       from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { HttpModule, JsonpModule } from '@angular/http';
import { FormsModule } from '@angular/forms';
import { AppComponent } from './app.component';
import { routing, appRoutingProviders } from './app.routing';
import {RestaurantesListComponent} from
"./components/restaurantes-list.component";
import {RestaurantesDetailComponent} from
"./components/restaurantes-detail.component";
import {RestauranteAddComponent} from "./components/restaurante-add.component";
import {RestauranteEditComponent} from
"./components/restaurante-edit.component";
@NgModule({
  imports:
                [ BrowserModule, HttpModule, FormsModule, routing ],
  declarations: [
                             AppComponent,
                             RestaurantesListComponent,
                             RestaurantesDetailComponent,
                             RestauranteEditComponent,
                             RestauranteAddComponent
                           ],
              [ appRoutingProviders ],
  providers:
                [ AppComponent ]
  bootstrap:
})
export class AppModule { }
```

```
app.routing.ts
import { ModuleWithProviders } from '@angular/core';
import { Routes, RouterModule } from '@angular/router';
import {RestaurantesListComponent} from
"./components/restaurantes-list.component";
import {RestaurantesDetailComponent} from
"./components/restaurantes-detail.component";
import {RestauranteAddComponent} from "./components/restaurante-add.component";
import {RestauranteEditComponent} from
"./components/restaurante-edit.component";
const appRoutes: Routes = [
             path: '',
             redirectTo: '/',
             pathMatch: 'full'
      {path: "", component: RestaurantesListComponent},
      {path: "restaurante/:id", component: RestaurantesDetailComponent},
      {path: "crear-restaurante", component: RestauranteAddComponent},
      {path: "editar-restaurante/:id", component: RestauranteEditComponent},
      {path: "donde-como-hoy/:random", component:
RestaurantesDetailComponent},
export const appRoutingProviders: any[] = [];
export const routing: ModuleWithProviders = RouterModule.forRoot(appRoutes);
Crear views y components en blanco
App.component.ts
import { Component, OnInit } from '@angular/core';
import { Router, ActivatedRoute, Params } from '@angular/router';
@Component({
      selector: "mi-app",
      templateUrl: "app/view/home.html"
})
export class AppComponent{
      public titulo:string = "Restaurantes";
Home.html
{{titulo}}
<nav id="nav">
      <u1>
             <a [routerLink]="['/']">Inicio</a>
             <a [routerLink]="['/crear-restaurante']">Crear</a>
restaurante</a>
             <a [routerLink]="['/donde-como-hoy', 'true']">¿Donde como
hoy?</a>
      </nav>
<section class="main">
      <router-outlet></router-outlet>
```

</section>

### Restaurants-list.component.ts

```
import { Component, OnInit } from '@angular/core';
import { Router, ActivatedRoute, Params } from '@angular/router';

@Component({
        selector: "restaurantes-list",
        templateUrl: "app/view/restaurantes-list.html"
})

export class RestaurantesListComponent {
        private titulo:string;

        constructor(){
            this.titulo="Listado"
        }
}

restaurantes-list.html
{{titulo}}
```

EL resto de componententes/vistas son:

RestauranteAddComponent-restaurante-add.html

Restaurante Edit Component-restaurante-edit.html

RestaurantesDetailComponent-restaurante-detail.html

## Model

Crear modelo de datos para restaurantes

## **Services**

```
import {Injectable} from "@angular/core";
import {Http, Response, Headers} from "@angular/http";
import "rxjs/add/operator/map";
import {Observable} from "rxjs/Observable";
import {Restaurante} from "../model/restaurante";
@Injectable()
export class RestauranteService{
      constructor(private _http: Http){}
      getRestaurantes(){
             return
this. http.get("http://localhost/slim/restaurantes-api.php/restaurantes")
                                                .map(res => res.json());
      }
}
Listado de restaurantes (restaurantes-list.component.ts)
import {RestauranteService} from "../services/restaurante.service";
import {Restaurante} from "../model/restaurante";
@Component({
      selector: "restaurantes-list",
      templateUrl: "app/view/restaurantes-list.html",
      providers: [RestauranteService]
})
export class RestaurantesListComponent implements OnInit {
      private titulo:string;
      public restaurantes: Restaurante[];
      public status: string;
      public errorMessage;
      public confirmado;
      constructor(
             private route: ActivatedRoute,
             private router: Router,
             private restauranteService: RestauranteService
             ){
             this.titulo="Listado"
       }
      ngOnInit() {
             this.getRestaurantes();
             console.log("restaurantes-list component cargado");
      }
      getRestaurantes(){
             this._restauranteService.getRestaurantes()
                                                             .subscribe(
                                                                    result => {
      this.restaurantes = result.data;
      this.status = result.status;
```

```
if(this.status !== "success"){
             alert("Error en el servidor");
      }
                                                                },
                                                                error => {
this.errorMessage = <any>error;
if(this.errorMessage !== null){
      console.log(this.errorMessage);
      alert("Error en la petición");
                                                                }
                                                         );
      }
}
Comprobar a través de la consola que la petición al API se realiza
Se edita el template para mostrar listado
{{titulo}}
<div class="image">
src="http://localhost/slim/uploads/{{restaurante.imagen}}"
*ngIf="restaurante.imagen && restaurante.imagen !== 'null'" />
             </div>
             <div class="data">
                   <h4>{{restaurante.nombre}}</h4>
                   {{restaurante.direccion}}
                         <a [routerLink]="['/restaurante', restaurante.id ]"</pre>
class="btn btn-ver">Ver</a>
                         <a [routerLink]="['/editar-restaurante',</pre>
restaurante.id ]" href="" class="btn btn-editar">Editar</a>
                         <a (click)="onBorrarConfirm(restaurante.id)"</pre>
class="btn btn-eliminar">Eliminar</a>
                   <div class="seguro" *ngIf="confirmado === restaurante.id">
                         <a (click)="onBorrarRestaurante(restaurante.id)"</pre>
class="btn btn-eliminar">Eliminar</a>
                         <a (click)="onCancelarConfirm(restaurante.id)"</pre>
class="btn btn-ver">Cancelar</a>
                   </div>
             </div>
```

# Insertar loader

Declarar variable publica loading.

### Detalle de restaurante.

Se añade el servicio de obtener restaurante.

```
getRestaurante(id: string){
                    return
this._http.get("http://localhost/slim/restaurantes-api.php/restaurante/"+id)
                                                .map(res => res.json());
                    }
En el componente-detail
import { Component, OnInit } from '@angular/core';
import { Router, ActivatedRoute, Params } from '@angular/router';
import {RestauranteService} from "../services/restaurante.service";
import {Restaurante} from "../model/restaurante";
@Component({
       selector: "restaurantes-detail",
       templateUrl: "app/view/restaurante-detail.html",
       providers: [RestauranteService]
})
export class RestaurantesDetailComponent implements OnInit {
       public restaurante: Restaurante[];
       public errorMessage: string;
       public status: string;
       constructor(
             private _restauranteService: RestauranteService,
             private _route: ActivatedRoute,
             private _router: Router
       ){}
       ngOnInit(){
             this.getRestaurante();
       }
       getRestaurante(){
             this._route.params.forEach((params: Params) => {
                    let id = params["id"];
                    this._restauranteService.getRestaurante(id)
                    .subscribe(
                           response => {
                                         this.restaurante = response.data;
                                         this.status = response.status;
                           if(this.status !== "success"){
             this._router.navigate(["Home"]);
                                         }
                           },
                           error => {
                                  this.errorMessage = <any>error;
                                  if(this.errorMessage !== null){
                                         console.log(this.errorMessage);
                                         alert("Error en la petición");
                                  }
                    });
             });
       }
```

```
}
El template.
{{titulo}}
<div *ngIf="restaurante" class="restaurante-box">
      <img class="imagen-rest-detail"</pre>
src="http://localhost/slim/uploads/{{restaurante.imagen}}"
*ngIf="restaurante.imagen && restaurante.imagen !== 'null'" />
      <div class="data-rest">
            <h1>Restaurante: {{restaurante.nombre}}</h1>
            <span [ngSwitch]="restaurante.precio">
                  <span *ngSwitchCase="'bajo'">Entre 2.50€ y 6€</span>
                  <span *ngSwitchCase="'normal'">Entre 4.50€ y 9€</span>
                  <span *ngSwitchCase="'alto'">Entre 7.50€ y 20€</span>
                  </span>
            {{restaurante.direccion}}
            {{restaurante.descripcion}}
      </div>
</div>
```

## Añadir Restaurante

#### En el servicio

```
addRestaurante(restaurante: Restaurante) {
             let json = JSON.stringify(restaurante);
             let params = "json="+json;
             let headers = new
Headers({'Content-Type':'application/x-www-form-urlencoded'});
this._http.post("http://localhost/slim/restaurantes-api.php/restaurantes",
                           params, {headers: headers}).map(res => res.json());
       }
El componente
public titulo = "Crear nuevo restaurante";
      public restaurante: Restaurante;
      public errorMessage: string;
      public status: string;
       public filesToUpload: Array<File>;
       constructor(
             private restauranteService: RestauranteService,
             private _route: ActivatedRoute,
             private _router: Router
       ){}
onSubmit(){
this._restauranteService.addRestaurante(this.restaurante).subscribe(
                           response => {
                                  this.status = response.status;
                                  if(this.status !== "success"){
                                         alert("Error en el servidor");
                                  }
                           },
                           error => {
                                  this.errorMessage = <any>error;
                                  if(this.errorMessage !== null){
                                         console.log(this.errorMessage);
                                         alert("Error en la petición");
                                  }
                           }
                    );
                    this._router.navigate(["/"]);
       }
       ngOnInit(){
             this.restaurante = new Restaurante(0,"","","","null","bajo");
       }
callPrecio(value){
             this.restaurante.precio = value;
       }
```

```
fileChangeEvent(fileInput: any){
             this.filesToUpload = <Array<File>>fileInput.target.files;
this.makeFileRequest("http://localhost/slim/restaurantes-api.php/upload-file",
[], this.filesToUpload).then((result) => {
                           this.resultUpload = result;
                           this.restaurante.imagen =
this.resultUpload.filename;
             }, (error) =>{
                    console.log(error);
             });
       }
      makeFileRequest(url: string, params: Array<string>, files: Array<File>){
             return new Promise((resolve, reject) => {
                           var formData: any = new FormData();
                           var xhr = new XMLHttpRequest();
                           for(var i = 0; i < files.length; i++){</pre>
                                  formData.append("uploads[]", files[i],
files[i].name);
                           }
                           xhr.onreadystatechange = function(){
                                  if(xhr.readyState == 4){
                                         if(xhr.status == 200){
resolve(JSON.parse(xhr.response));
                                         }else{
                                                reject(xhr.response);
                                         }
                                  }
                           }
                           xhr.open("POST", url, true);
                           xhr.send(formData);
                    });
      }
```

#### El template

```
<h1>{{titulo}}</h1>
<form #formRestaurante="ngForm" (ngSubmit)="onSubmit()">
<label>Nombre:</label>
>
      <input type="text" #nombre="ngModel" name="nombre"</pre>
[(ngModel)]="restaurante.nombre" required/>
      <span *ngIf="!nombre.valid">El nombre es obligatorio</span>
<label>Dirección:</label>
>
      <input type="text" #direccion="ngModel" name="direccion"</pre>
[(ngModel)]="restaurante.direccion" required/>
      <span *ngIf="!direccion.valid">La dirección es obligatoria
<label>Descripción:</label>
>
      <textarea #descripcion="ngModel" name="descripcion"</pre>
[(ngModel)]="restaurante.descripcion" required></textarea>
      <span *ngIf="!descripcion.valid">La descripción es obligatoria
<label>Precio:</label>
      <select (change)="callPrecio(precio.value)" #precio name="precio">
             <option value="bajo" [attr.selected]="restaurante.precio ===</pre>
'bajo' ? 'selected' : null">Bajo</option>
             <option value="normal" [attr.selected]="restaurante.precio ===</pre>
'normal' ? 'selected' : null">Normal</option>
             <option value="alto" [attr.selected]="restaurante.precio ===</pre>
'alto' ? 'selected' : null">Alto</option>
      </select>
<label>Imagen:</label>
      <input type="file" placeholder="Subir imagen..."</pre>
(change)="fileChangeEvent($event)"/>
<input type="submit" value="{{titulo}}"</pre>
[disabled]="!formRestaurante.form.valid" />
</form>
```