Architecture & WEB TD ANGULAR

```
Sujet : Lister les cryptos monnaies.
Créer un formulaire de recherche.
Afficher le détail d'une crypto sélectionnée.
URL des API utilisées :
https://api.coinmarketcap.com/v2/listings/
https://api.coinmarketcap.com/v2/ticker/
```

Installation

Créer un Blank workspace sous Cloud9

```
> nvm install node
> node -v
> npm install -g npm
> npm install -g @angular/cli
> ng new crypto
> cd crypto
> ng serve --host 0.0.0.0 --port 8080 --disableHostCheck
> ng new crypto
> cd crypto
> ng serve -o
```

http://localhost:4200

Les COMPOSANTS

```
app.module.ts:
    import { FormsModule} from "@angular/forms";
    imports: [ FormsModule ]
> ng g c recherche
```

Le DATABINDING

recherche.component.html:

```
<label>Nom crypto : </label>
<input [(ngModel)]="nomcrypto">
```

```
<button (click)="onclick()"
[disabled]="nomcrypto==''">Chercher</button>
<div>La recherche s'effectue sur : {{nomcrypto}}</div>
```

Copier les classes models dans l'arborescence

Les DIRECTIVES

```
recherche.component.ts:
nomcrypto : String = "BITCOIN";
listCryptoMock : Data = {"data":[{"id":1,"name":"BITCOIN","symbol":
"BTC", "website slug":""}, {"id":2, "name":"LITCOIN", "symbol":
"LC", "website slug": ""}]};
onclick () {
    console.log ("Clique : " + this.nomcrypto );
  }
recherche.component.ts:
listCrypto : Coin [] = this.listCryptoMock.data;
recherche.component.html
<div *ngFor = "let c of listCrypto">
  <div *nqIf =
"c.name.toLowerCase().includes(nomcrypto.toLowerCase())">
   {{c.name}}
  </div>
</div>
> ng g c crypto
Le DATABINDING
recherche.component.html:
<app-crypto [coin]="c" ></app-crypto>
crypto.component.ts:
import { Component, OnInit, Input } from '@angular/core';
import { Coin} from '../../model/Coin'
crypto.component.ts:
@Input () coin : Coin;
crypto.component.html:
<div [ngStyle]="{'color': getColor()}">
  {{coin.name}}
</div>
```

```
crypto.component.ts:
getColor () : String {
    return "red";
Les PIPES
crypto.component.html:
{{coin.name | lowercase}}
Les SERVICES
> ng g s comapi
comapi.service.ts
public getListCrypto () : Coin [] {
 var listCryptoMock : Data =
{"data":[{"id":1, "name": "BITCOIN", "symbol":
"BTC", "website slug":""}, {"id":2, "name":"LITCOIN", "symbol":
"LC", "website slug": ""}]};
  return listCryptoMock.data;
}
L'INJECTION
recherche.component.ts
constructor( private compai: ComapiService ) { }
recherche.component.ts
listCrypto : Coin [];
onclick () {
    console.log ("Clique : " + this.nomcrypto );
    this.listCrypto = this.compai.getListCrypto ();
  }
Le HTTP
app.module.ts
import { HttpClientModule } from '@angular/common/http';
imports: [ HttpClientModule ]
comapi.service.ts
import {HttpClient } from '@angular/common/http'
import {Observable } from 'rxjs';
```

Les OBSERVABLES

```
comapi.service.ts
urlListCrypto = "https://api.coinmarketcap.com/v2/listings/";
urlDetailCrypto = "https://api.coinmarketcap.com/v2/ticker";
constructor(private httpClient : HttpClient) { }
public getListCrypto () : Observable<Data>
  return this.httpClient.get<Data>(this.urlListCrypto)
}
recherche.component.ts
onClick () {
   this.comapi.getListCrypto().subscribe(d => {this.listCrypto =
d.data; console.log(this.listCrypto);});
  }
Le ROUTING
app.module.ts
import {RouterModule, Routes} from '@angular/router';
const appRoutes: Routes = [
  {path: 'recherche', component: RechercheComponent },
    { path: 'detail/:id', component: DetailComponent}
];
app.module.ts
imports: [ RouterModule.forRoot (appRoutes)],
crypto.component.html
<a [routerLink]="['/detail',coin.id]"> {{coin.name | lowercase}}
</a>
app.component.html
<router-outlet ></router-outlet>
detail.component.ts
import {ActivatedRoute } from '@angular/router';
detail.component.ts
constructor(private route: ActivatedRoute) { }
id : number = 0;
ngOnInit() {
   this.id = +this.route.snapshot.paramMap.get('id');
detail.component.html
<span>Id :</span> {{id}}}
```

```
recherche.component.ts
import {Router} from '@angular/router'
recherche.component.ts
constructor(private comapi : ComapiService, private router: Router) {
}
recherche.component.html
<label>Nom crypto : </label>
<input [(ngModel)]="nomcrypto">
<button (click)="onclick()" [disabled]="nomcrypto==''"</pre>
routerLink="/">Chercher</button>
<div>La recherche s'effectue sur : {{nomcrypto}}</div>
<div *ngIf="router.url == '/'">
<div *ngFor = "let c of listCrypto">
  <div *ngIf =
"c.name.toLowerCase().includes(nomcrypto.toLowerCase())">
      <app-crypto [coin]="c" ></app-crypto>
  </div>
</div>
</div>
```