



Workshop 4 – Building a Full-stack Application

- Create a JavaScript frontend



Couchbase
DEVELOPER COMMUNITY



- Angular 4 (UI)



Couchbase
DEVELOPER COMMUNITY

Angular: Starting a new project



1. `npm install -g @angular/cli`
2. `ng new <yourprojectname>`
3. `ng generate component <componentname>`
4. `ng build`
5. `ng serve`
access via `http://localhost:4200`



- TypeScript “compiles” to JavaScript
- Polyfills are included by default
- Compiled into a ‘dist’ folder



- `app.module.ts`
 - Declare the components
 - Setup the imports (dependencies)
 - Setup the providers
 - Setup the bootstrap component



```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';
import { FormsModule } from '@angular/forms';
import { HttpClientModule } from '@angular/http';
import { RouterModule } from '@angular/router';
import { Utility } from '../utility';

import { AppComponent } from './app.component';
import { MyComponent } from './path/to/my.component';

@NgModule({
  declarations: [
    AppComponent,
    MyComponent
  ],
  imports: [
    BrowserModule,
    FormsModule,
    HttpClientModule,
    RouterModule.forRoot([
      { path: "foo/bar/:someId", component: MyComponent }
    ])
  ],
  providers: [Utility],
  bootstrap: [AppComponent]
})
export class AppModule { }
```



```
import { Component, OnInit } from '@angular/core';
import { Http } from '@angular/http';
import { Utility } from '../utility';

@Component({
  selector: 'app-item',
  templateUrl: './thing.component.html',
  styleUrls: ['./thing.component.css']
})
export class ThingComponent implements OnInit {

  public constructor(private http: Http, private utility: Utility) {

  }

  public ngOnInit() {

  }

  public whateverMethod() {

  }
}
```


GET using HTTP



```
import { Component, OnInit } from '@angular/core';
import { Http } from '@angular/http';
import { Item } from '../item';
import 'rxjs/add/operator/map';
import 'rxjs/add/operator/do';

@Component({
  selector: 'app-list',
  templateUrl: './list.component.html',
  styleUrls: ['./list.component.css']
})
export class ListComponent implements OnInit {

  public people: Array<Item>;

  public constructor(private http: Http) {
    this.people = [];
  }

  public ngOnInit() {
    this.http.get("http://localhost/api/getAll")
      .map(result => result.json())
      .subscribe(results => {
        this.people = results;
      }, error => {
        console.error(error);
      });
  }
}
```



```
<table class="table table-striped">
  <thead>
    <tr>
      <th>First Name</th>
      <th>Last Name</th>
      <th>Email</th>
    </tr>
  </thead>
  <tbody>
    <tr *ngFor="let person of people">
      <td>{{person.FirstName}}</td>
      <td>{{person.LastName}}</td>
      <td>{{person.Email}}</td>
    </tr>
  </tbody>
</table>
```



```
<a href="#" (click)="bar("parameter1","etc")">do something</a>
```



```
<a [routerLink]="['/foo', thing.foo]">edit</a>
```



Execute Angular app:

- `ng serve`



Questions



- Checkout the code from Github
 - <https://github.com/couchbaselabs/aspnet-nosql-workshop/tree/master/o4>
- The source code is also available on USB sticks

Exercise: Getting Started



At the end of the lab, your app should be able to list, add, edit, and delete.

If you have questions or are running into a problem, I'll be walking around helping you individually.