



Workshop 3 – Building a Full-stack Application



- Create a RESTful API backend
- Create an Angular2 UI



Couchbase
DEVELOPER COMMUNITY



- Java - Spring
- .NET - ASP.NET WebAPI
- Node.js - Express.js

- Angular 2 (UI)
- Couchbase (document database)



Couchbase
DEVELOPER COMMUNITY

Exercise: Fill in the blanks



- Fill in the blanks to make the application work
- Checkout the code from Github
 - <https://github.com/couchbaselabs/workshop/tree/master/connect2016/developer/03>
- The source code is also available on USB sticks

Exercise: Getting Started



We're going to fill in one of the blanks together, one for each language/platform.

The rest of the them are up to you.

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, we'll be walking around helping you individually.



<http://developer.couchbase.com/documentation/server/4.5/sdk/dotnet/async-programming.html>

.NET:

async/await/Task

Node:

callbacks

Java:

spring-data-couchbase

<http://developer.couchbase.com/documentation/server/4.5/sdk/dotnet/n1ql-queries-with-sdk.html>

.NET:

QueryRequest

Node:

N1qlQuery

Java:

N1qlQuery



<http://developer.couchbase.com/documentation/server/4.5/architecture/querying-data-with-n1ql.html>

NotBounded

Default (speed)

RequestPlus

Accuracy (slower)

AtPlus

Speed and accuracy (more work)



<http://developer.couchbase.com/documentation/server/4.5/sdk/dotnet/document-operations.html>

.NET:

```
new Document<T> { Cas = ... }
```

Node:

```
bucket.replace('key', { document }, { cas: ... }, ... )
```

Java:

@Version attribute (spring-data-couchbase)



.NET:

Result objects include: Exception, Success, Message

Java:

try/catch Exception

Node:

Callbacks - *function(err, result) { }*



- Look for TODOs
- Files included:
 - `application.properties`
 - `PersonConfig.java`
 - `PersonController.java`



- Look for TODOs
- Files included:
 - CouchbaseConfig.cs
 - Web.config
 - Person.cs
 - PersonController.cs



- Look for TODOs
- Files includes:
 - default.json
 - api.js



- Look for TODOs
- Files included:
 - utility.ts
 - item.component.ts
 - item.component.html
 - list.component.ts
 - list.component.html



Execute Angular 2: `ng serve`

Execute RESTful API backend:

- Java: `mvn spring-boot:run`
- .NET: F5 (or ctrl+f5) from Visual Studio
- Node: `node app.js`



Questions