Bootiful GraphQL with Kotlin

Dariusz Kuc



expedia group

Spring Boot



Spring Boot 2.0



Reactor

Reactive Stack

Spring WebFlux is a non-blocking web framework built from the ground up to take advantage of multi-core, next-generation processors and handle massive numbers of concurrent connections.

Netty, Servlet 3.1+ Containers

Reactive Streams Adapters

Spring Security Reactive

Spring WebFlux

Spring Data Reactive Repositories

Mongo, Cassandra, Redis, Couchbase

Servlet Stack

Spring MVC is built on the Servlet API and uses a synchronous blocking I/O architecture with a one-request-perthread model.

OPTIONAL DEPENDENCY

Servlet Containers

Servlet API

Spring Security

Spring MVC

Spring Data Repositories
JDBC, JPA, NoSQL

https://spring.io/



Query language for your APIs

```
type Attendee implements People {
  name: String!
  ticket: TicketType!
type Conference {
  name: String!
interface People {
  name: String!
type Query {
  conference: Conference!
  people(nameStartWith: String): [People!]!
```



Query language for your APIs

```
type Attendee implements People {
  name: String!
 ticket: TicketType!
type Conference {
  name: String!
interface People {
 name: String!
type Query {
  conference: Conference!
  people(nameStartWith: String): [People!]!
```

```
query {
  conference {
    name
  people(nameStartWith: "G") {
    name
    ... on Attendee {
      ticket
    ... on Speaker {
      talks
```

```
"data": {
 "conference": {
   "name": "KotlinConf 2019"
 "people": [
      "name": "Guillaume",
      "talks": [
        "GraphQL is awesome",
        "GraphQL-Kotlin is even better"
```



- Why Kotlin?
- Strong types
- Null-safety
- Data classes
- Interop with Java
- ... coroutines are also great

graphql-kotlin

Set of libraries for running GraphQL server in Kotlin

Code only GraphQL schema generation for Kotlin

Spring Boot auto-configuration library

7

Demo





ExpediaGroup/graphql-kotlin



@darek_kuc / @ExpediaGroupEng



We are recruiting! *lifeatexpedia.com*