CLOUD-NATIVE APPLICATION ARCHITECTURES

WITH SPRING AND CLOUD FOUNDRY

SESSION THREE

MICROSERVICES WITH POLYGLOT PERISTENCE: PART 1

BUILDING YOUR FIRST CLOUD READY MICROSERVICE

WITH SPRING DATA REST!

```java
@Entity
@Table(name = "city")
public class City implements Serializable {

    @Id
    @GeneratedValue
    private Long id;

    @Column(nullable = false)
    private String name;

    @Column(nullable = false)
    private String county;


    //...

}
```

WITH SPRING DATA REST!

```java
@RepositoryRestResource(collectionResourceRel = "cities", path = "cities")
public interface CityRepository extends PagingAndSortingRepository<City, Long> {}
```

WITH SPRING DATA REST!

```java
@SpringBootApplication
@EnableJpaRepositories
@Import(RepositoryRestMvcConfiguration.class)
public class Application {

  public static void main(String[] args) {
    SpringApplication.run(Application.class, args);
  }
}
```

WITH SPRING DATA REST!

```json
{
  "_links" : {
    "next" : {
      "href" : "http://localhost:8080/cities?page=1&size=20"
    },
    "self" : {
      "href" : "http://localhost:8080/cities{?page,size,sort}",
      "templated" : true
    }
  },
  "_embedded" : {
    "cities" : [ {
      "name" : "HOLTSVILLE",
      "county" : "SUFFOLK",
      "stateCode" : "NY",
      "postalCode" : "00501",
      "latitude" : "+40.922326",
      "longitude" : "-072.637078",
```

DEPLOY IT TO CLOUD FOUNDRY!

CONNECT TO DB SERVICE USING SPRING CLOUD CONNECTORS!

TO THE LABS!