

Spring Data (JPA) REST

Session 03

Building a simple microservice with Spring Data (JPA) REST

```
@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;

    //...

}
```

Building a simple microservice with Spring Data (JPA) REST

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

Building a simple microservice with Spring Data (JPA) REST

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

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

Building a simple microservice with Spring Data (JPA) REST

```
{
  - _links: {
    - self: {
      href: "http://localhost:8080/cities{?page,size,sort}",
      templated: true
    },
    - next: {
      href: "http://localhost:8080/cities?page=1&size=20{&sort}",
      templated: true
    },
    - search: {
      href: "http://localhost:8080/cities/search"
    }
  },
  - _embedded: {
    - cities: [
      - {
        name: "HOLTSVILLE",
        county: "SUFFOLK",
        stateCode: "NY",
        postalCode: "00501",
        latitude: "+40.922326",
        longitude: "-072.637078",
        - _links: {
          - self: {
            href: "http://localhost:8080/cities/1"
          }
        }
      },
      - {
        name: "HOLTSVILLE",
        county: "SUFFOLK",
        stateCode: "NY",
        postalCode: "00544",
        latitude: "+40.922326",
        longitude: "-072.637078",
        - _links: {
          - self: {
            href: "http://localhost:8080/cities/2"
          }
        }
      }
    ]
  }
}
```

Deploy to Cloud Foundry

- And Connect to DB service using **Spring Cloud Connectors**

Labs!!