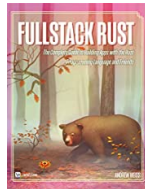


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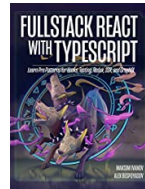
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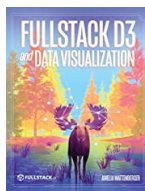
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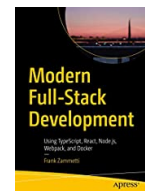
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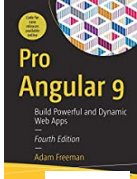
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In this tutorial, we show you Vue.js Http Client & Spring Boot Server example that uses Spring JPA to do CRUD with MySQL and Vue.js as a front-end technology to make request and receive response.

Related Posts:

- [How to use Spring JPA MySQL | Spring Boot](#)
- [Vue Router example – with Nav Bar, Dynamic Route & Nested Routes](#)

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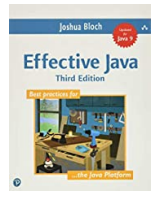
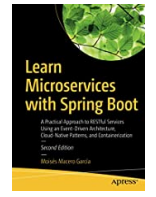

Technologies

- Java 1.8
- Maven 3.3.9
- Spring Tool Suite – Version 3.8.4.RELEASE
- Spring Boot: 2.0.5.RELEASE
- Vue 2.5.17
- Vue Router 3

– Axios 0.18.0

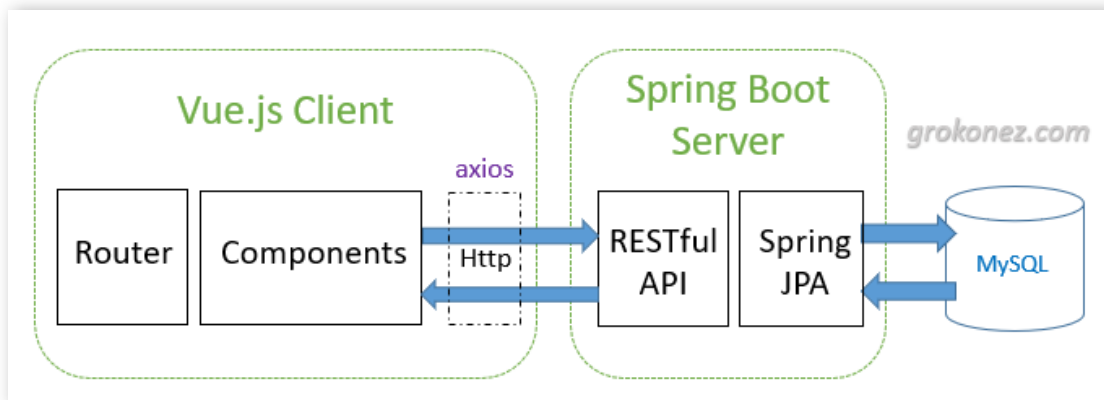
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This is full-stack Architecture:

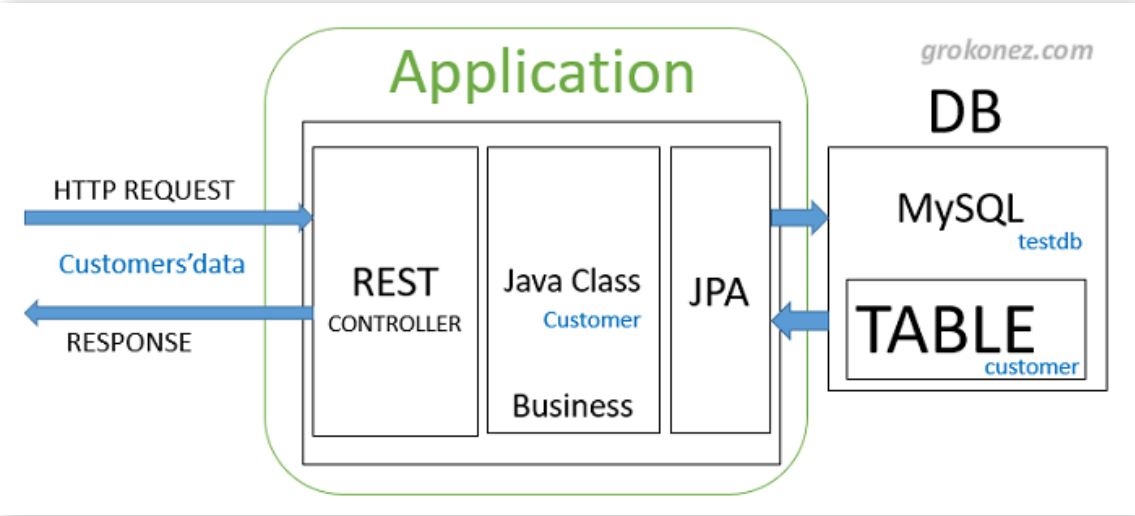


Demo

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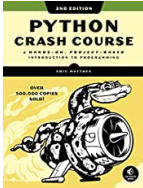


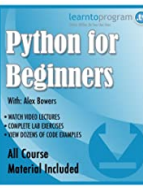


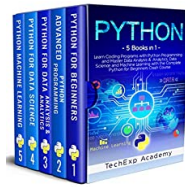
1. Spring Boot Server



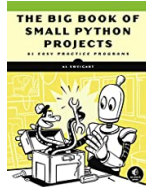
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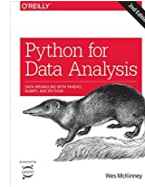
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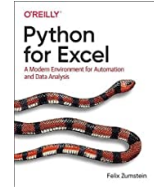
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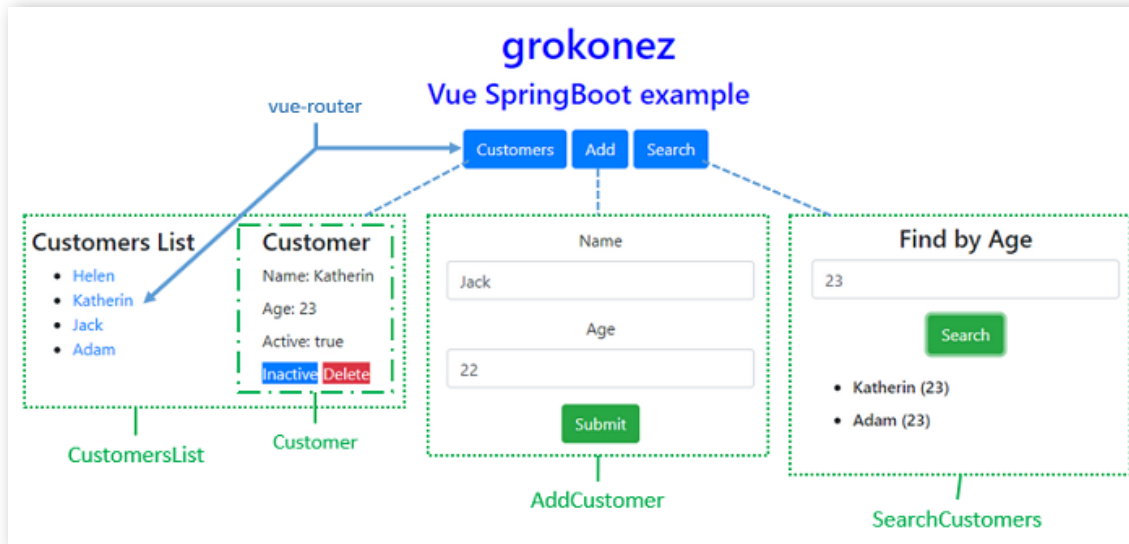


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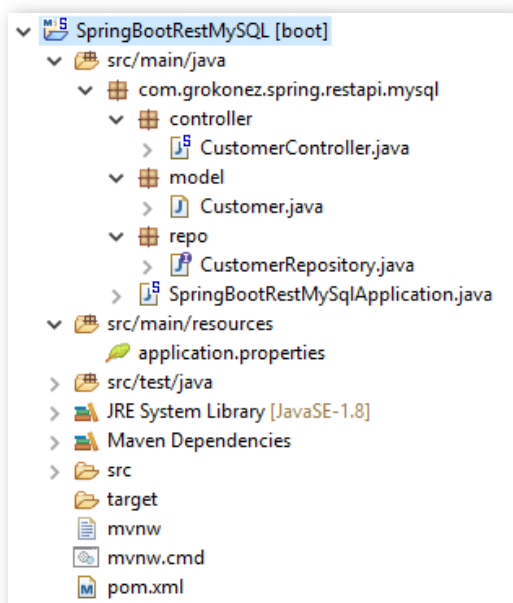
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Practice

1. Spring Boot Server



- **Customer** class corresponds to entity and table **customer**.
- **CustomerRepository** is an interface extends **CrudRepository**, will be autowired in **CustomerController** for implementing repository methods and custom finder methods.
- **CustomerController** is a REST Controller which has request mapping methods for RESTful requests such as: `getAllCustomers`, `postCustomer`, `deleteCustomer`, `findByAge`, `updateCustomer`.

- Configuration for Spring Datasource and Spring JPA properties in **application.properties**
- **Dependencies** for **Spring Boot** and **MySQL** in **pom.xml**

1.1 Dependency

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>

<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-web</artifactId>
</dependency>

<dependency>
  <groupId>mysql</groupId>
  <artifactId>mysql-connector-java</artifactId>
  <scope>runtime</scope>
</dependency>
```

1.2 Data Model

model/Customer.java

```
package com.grokonez.spring.restapi.mysql.model;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name = "customer")
public class Customer {

    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private long id;

    @Column(name = "name")
    private String name;

    @Column(name = "age")
    private int age;

    @Column(name = "active")
    private boolean active;

    public Customer() {
```

```
}

public Customer(String name, int age) {
    this.name = name;
    this.age = age;
    this.active = false;
}

public long getId() {
    return id;
}

public void setName(String name) {
    this.name = name;
}

public String getName() {
    return this.name;
}

public void setAge(int age) {
    this.age = age;
}

public int getAge() {
    return this.age;
}

public boolean isActive() {
    return active;
}

public void setActive(boolean active) {
    this.active = active;
}

@Override
public String toString() {
    return "Customer [id=" + id + ", name=" + name + ", age=" + age + ", active=" + active
}
}
```

1.3 JPA Repository

repo/CustomerRepository.java

```
package com.grokonez.spring.restapi.mysql.repo;

import java.util.List;

import org.springframework.data.repository.CrudRepository;
```

```
import com.grokonez.spring.restapi.mysql.model.Customer;

public interface CustomerRepository extends CrudRepository {
    List findByAge(int age);
}
```

1.4 REST Controller

controller/CustomerController.java

```
package com.grokonez.spring.restapi.mysql.controller;

import java.util.ArrayList;
import java.util.List;
import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.PutMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;

import com.grokonez.spring.restapi.mysql.model.Customer;
import com.grokonez.spring.restapi.mysql.repo.CustomerRepository;

@CrossOrigin(origins = "http://localhost:4200")
@RestController
@RequestMapping("/api")
public class CustomerController {

    @Autowired
    CustomerRepository repository;

    @GetMapping("/customers")
    public List getAllCustomers() {
        System.out.println("Get all Customers...");

        List customers = new ArrayList<>();
        repository.findAll().forEach(customers::add);

        return customers;
    }

    @PostMapping("/customer")
```



```

public Customer postCustomer(@RequestBody Customer customer) {

    Customer _customer = repository.save(new Customer(customer.getName(), customer.getAge()));
    return _customer;
}

@DeleteMapping("/customer/{id}")
public ResponseEntity deleteCustomer(@PathVariable("id") long id) {
    System.out.println("Delete Customer with ID = " + id + "...");

    repository.deleteById(id);

    return new ResponseEntity<>("Customer has been deleted!", HttpStatus.OK);
}

@GetMapping("customers/age/{age}")
public List findByAge(@PathVariable int age) {

    List customers = repository.findByAge(age);
    return customers;
}

@PutMapping("/customer/{id}")
public ResponseEntity updateCustomer(@PathVariable("id") long id, @RequestBody Customer customer) {
    System.out.println("Update Customer with ID = " + id + "...");

    Optional customerData = repository.findById(id);

    if (customerData.isPresent()) {
        Customer _customer = customerData.get();
        _customer.setName(customer.getName());
        _customer.setAge(customer.getAge());
        _customer.setActive(customer.isActive());
        return new ResponseEntity<>(repository.save(_customer), HttpStatus.OK);
    } else {
        return new ResponseEntity<>(HttpStatus.NOT_FOUND);
    }
}
}

```

1.5 Configuration for Spring Datasource & JPA properties

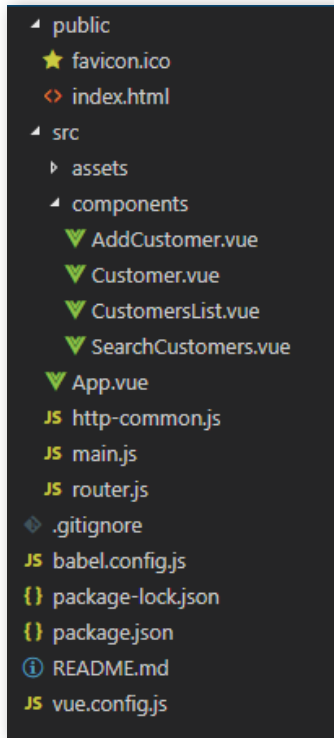
application.properties

```

spring.datasource.url=jdbc:mysql://localhost:3306/testdb?useSSL=false
spring.datasource.username=root
spring.datasource.password=123456
spring.jpa.generate-ddl=true

```

2. Vue.js Client



- **package.json** with 3 main modules: `vue`, `vue-router`, `axios`.
- 4 components: ***CustomersList***, ***Customer***, ***AddCustomer***, ***SearchCustomer***.
- **router.js** defines `routes`, each route has a path and maps to a component.
- **http-common.js** initializes HTTP Client with `baseUrl` and `headers` for axios HTTP methods.
- **vue.config.js** configures `port` for Vue App.

For more details about how to use Vue Router in this example, please visit:

[Vue Router example – with Nav Bar, Dynamic Route & Nested Routes](#)

2.0 Setup Vue Project & Router

Init Project

Point cmd to the folder you want to save Project folder, run command:

```
vue create vue-springboot
```

You will see 2 options, choose **default**:

```
Vue CLI v3.0.1
? Please pick a preset: (Use arrow keys)
> default (babel, eslint)
  Manually select features
```

Add Vue Router to Project

- Run command: `npm install vue-router`.
- Import `router` to **src/main.js**:

```
import Vue from "vue";
import App from "./App.vue";
import router from './router'

Vue.config.productionTip = false;

new Vue({
  router, // inject the router to make whole app router-aware
```

```
render: h => h(App)
}).$mount("#app");
```

Define Routes

src/router.js:

```
import Vue from "vue";
import Router from "vue-router";
import CustomersList from "../components/CustomersList.vue";
import AddCustomer from "../components/AddCustomer.vue";
import SearchCustomers from "../components/SearchCustomers.vue";
import Customer from "../components/Customer.vue";

Vue.use(Router);

export default new Router({
  mode: "history",
  routes: [
    {
      path: "/",
      name: "customers",
      alias: "/customer",
      component: CustomersList,
      children: [
        {
          path: "/customer/:id",
          name: "customer-details",
          component: Customer,
          props: true
        }
      ]
    },
    {
      path: "/add",
      name: "add",
      component: AddCustomer
    },
    {
      path: "/search",
      name: "search",
      component: SearchCustomers
    }
  ]
});
```

App template with Navbar and router-view

src/App.vue:

```
<template>
  <div id="app" class="container-fluid">
```

```
<div class="site-info">
  <h1>grokonez</h1>
  <h3>Vue SpringBoot example</h3>
</div>
<nav>
  <router-link class="btn btn-primary" to="/">Customers</router-link>
  <router-link class="btn btn-primary" to="/add">Add</router-link>
  <router-link class="btn btn-primary" to="/search">Search</router-link>
</nav>
<br/>
<router-view/>
</div>
</template>

<script>
export default {
  name: "app"
};
</script>

<style>
.site-info {
  color: blue;
  margin-bottom: 20px;
}

.btn-primary {
  margin-right: 5px;
}

.container-fluid {
  text-align: center;
}
</style>
```

2.1 Initialize HTTP Client

Install **axios** with command: `npm install axios`.

Then create `http-common.js` file:

```
import axios from "axios";

export default axios.create({
  baseURL: "http://localhost:8080/api",
  headers: {
    "Content-type": "application/json",
  }
});
```

2.2 Components

List of Items

components/CustomersList.vue

```
<template>
  <div class="list row">
    <div class="col-md-6">
      <h4>Customers List</h4>
      <ul>
        <li v-for="(customer, index) in customers" :key="index">
          <router-link :to="{
            name: 'customer-details',
            params: { customer: customer, id: customer.id }
          }">
            {{customer.name}}
          </router-link>
        </li>
      </ul>
    </div>
    <div class="col-md-6">
      <router-view @refreshData="refreshList"></router-view>
    </div>
  </div>
</template>

<script>
import http from "../http-common";

export default {
  name: "customers-list",
  data() {
    return {
      customers: []
    };
  },
  methods: {
    /* eslint-disable no-console */
    retrieveCustomers() {
      http
        .get("/customers")
        .then(response => {
          this.customers = response.data; // JSON are parsed automatically.
          console.log(response.data);
        })
        .catch(e => {
          console.log(e);
        });
    },
    refreshList() {
      this.retrieveCustomers();
    }
    /* eslint-enable no-console */
  },
  mounted() {
    this.retrieveCustomers();
  }
}
```

```
    }  
  };  
</script>  
  
<style>  
.list {  
  text-align: left;  
  max-width: 450px;  
  margin: auto;  
}  
</style>
```

Item Details

components/Customer.vue

```
<template>  
  <div v-if="this.customer">  
    <h4>Customer</h4>  
    <div>  
      <label>Name: </label> {{this.customer.name}}  
    </div>  
    <div>  
      <label>Age: </label> {{this.customer.age}}  
    </div>  
    <div>  
      <label>Active: </label> {{this.customer.active}}  
    </div>  
  
    <span v-if="this.customer.active"  
      v-on:click="updateActive(false)"  
  
      class="button is-small btn-primary">Inactive</span>  
    <span v-else  
      v-on:click="updateActive(true)"  
      class="button is-small btn-primary">Active</span>  
  
    <span class="button is-small btn-danger" v-on:click="deleteCustomer()">Delete</span>  
  </div>  
  <div v-else>  
    <br/>  
    <p>Please click on a Customer...</p>  
  </div>  
</template>  
  
<script>  
import http from "../http-common";  
  
export default {  
  name: "customer",  
  props: ["customer"],  
  methods: {  
    /* eslint-disable no-console */  
    updateActive(status) {
```

```

    var data = {
      id: this.customer.id,
      name: this.customer.name,
      age: this.customer.age,
      active: status
    };

    http
      .put("/customer/" + this.customer.id, data)
      .then(response => {
        this.customer.active = response.data.active;
        console.log(response.data);
      })
      .catch(e => {
        console.log(e);
      });
  },
  deleteCustomer() {
    http
      .delete("/customer/" + this.customer.id)
      .then(response => {
        console.log(response.data);
        this.$emit("refreshData");
        this.$router.push('/');
      })
      .catch(e => {
        console.log(e);
      });
  }
  /* eslint-enable no-console */
}

};
</script>

```

Add Item

components/AddCustomer.vue

```

<template>
  <div class="submitform">
    <div v-if="!submitted">
      <div class="form-group">
        <label for="name">Name</label>
        <input type="text" class="form-control" id="name" required v-model="customer.name" />
      </div>

      <div class="form-group">
        <label for="age">Age</label>
        <input type="number" class="form-control" id="age" required v-model="customer.age" />
      </div>

      <button v-on:click="saveCustomer" class="btn btn-success">Submit</button>
    </div>
  </div>

```

```
</div>

<div v-else>
  <h4>You submitted successfully!</h4>
  <button class="btn btn-success" v-on:click="newCustomer">Add</button>
</div>
</div>
</template>

<script>
import http from "../http-common";

export default {
  name: "add-customer",
  data() {
    return {
      customer: {
        id: 0,
        name: "",
        age: 0,
        active: false
      },
      submitted: false
    };
  },
  methods: {
    /* eslint-disable no-console */
    saveCustomer() {
      var data = {
        name: this.customer.name,
        age: this.customer.age
      };

      http
        .post("/customer", data)
        .then(response => {
          this.customer.id = response.data.id;
          console.log(response.data);
        })
        .catch(e => {
          console.log(e);
        });

      this.submitted = true;
    },
    newCustomer() {
      this.submitted = false;
      this.customer = {};
    }
  },
  /* eslint-enable no-console */
};
</script>
```



```
<style>
.submitform {
  max-width: 300px;
  margin: auto;
}
</style>
```

Search Items

components/SearchCustomers.vue

```
<template>
  <div class="searchform">
    <h4>Find by Age</h4>
    <div class="form-group">
      <input type="number" class="form-control" id="age" required v-model="age" name="age">
    </div>

    <div class="btn-group">
      <button v-on:click="searchCustomers" class="btn btn-success">Search</button>
    </div>

    <ul class="search-result">
      <li v-for="(customer, index) in customers" :key="index">
        <h6>{{customer.name}} ({{customer.age}})</h6>
      </li>
    </ul>
  </div>
</template>

<script>
import http from "../http-common";

export default {
  name: "search-customer",
  data() {
    return {
      age: 0,
      customers: []
    };
  },
  methods: {
    /* eslint-disable no-console */
    searchCustomers() {
      http
        .get("/customers/age/" + this.age)
        .then(response => {
          this.customers = response.data; // JSON are parsed automatically.
          console.log(response.data);
        })
        .catch(e => {
          console.log(e);
        })
    }
  }
}
```

```
        console.log(e);
    });
}
/* eslint-enable no-console */
}
};
</script>

<style>
.searchform {
    max-width: 300px;
    margin: auto;
}
.search-result {
    margin-top: 20px;
    text-align: left;
}
</style>
```

2.3 Configure Port for Vue App

vue.config.js

```
module.exports = {
  devServer: {
    port: 4200
  }
}
```

Run

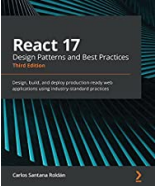
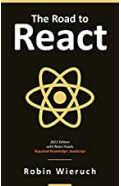
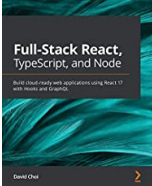

- Spring Boot Server: `mvn clean install` and `mvn spring-boot:run`.
- Vue.js Client: `npm run serve`.


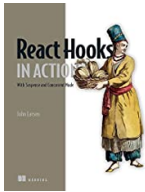
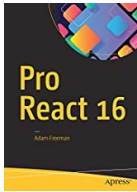
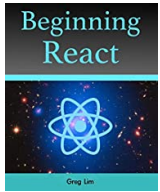
Open Browser with Url: `http://localhost:4200/` .

Source Code

- [SpringBootRestMySQL](#)
- [vue-springboot](#)

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By [grokonez](#) | September 16, 2018.

Last updated on **April 3, 2021**.

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13 thoughts on “Spring Boot + Vue.js example | Spring Data JPA + REST + MySQL CRUD”

**xuanning meng**

December 5, 2018 at 6:20 am

This tutorial doesn't contain the css configuration like "class = button is-small btn-danger", class="btn btn-primary". Could you tell me how to make them, cause I can't show the button and click them to delete...

**grokonez**

December 5, 2018 at 11:17 am

Hi xuanning meng,

You can add Bootstrap to **public/index.html** with one line of code:

...

Regards,
grokonez.

**mariano**

December 20, 2018 at 8:59 pm

hi,

your tutorial is real good, but i got a problem, with kind a project should i create in STS, because i created a spring boot project with web, jpa, mysql, but i still i get not added the hibernate, jpa dependency, and even so can't make it run. Your example i did make it run, and i was able to persist on the mysql db, but when i create a spring project for my own i can't make it functioned, can you help me

thanks,
Mariano

**grokonez**

December 21, 2018 at 2:07 am

Hi Mariano,

Using STS, you can create new Project with **Spring Starter Project** 😊

Regards,
grokonez.



Mariano

December 30, 2018 at 12:44 am

Hi, Grokonez, I was finally able to create a project and make it run locally like your example!!
change this:

```
org.springframework.boot  
spring-boot-starter-parent  
2.1.1.RELEASE
```

to this:

```
org.springframework.boot  
spring-boot-starter-parent  
2.0.5.RELEASE
```

Could you make a tutorial to deploy this example on heroku, please? you already got one but with postgres db instead mysql, thanks again,
happy new year!!



Andy

January 17, 2019 at 5:40 am

Thank you for this sir
can we use vuetify instead??



Michael

February 14, 2019 at 3:24 pm

Thank you very much for this detailed tutorial. You helped me a lot.



grokonez

February 16, 2019 at 2:47 am

Hi Michael, we're so glad to hear that 😊



Samuel

March 22, 2019 at 4:32 am

Thanks for the tutorial. Its really nice.


Question- How would you save the customer if the customer had a composite property say Contact as an object with OneToOne mapping. (is it possible to create the contact object with fields like Tel, email, adress in view and the before

save, say customer.contact= contact? contact ==object of type Contact?

 **chayma**


September 23, 2019 at 7:34 pm

Hi,
Your tutorial was very interesting but when i run the project i got two problems, the first one related to the CORS policy and the second is: Failed to load resource: the server responded with a status of 404 (Not Found) 8080/api/customers
How can i fix that ? thank you

 **bbaahhmvggo**

April 4, 2020 at 6:08 am

yszkovuorgegwidfpfiuujacmdnug

 **nztkdfrbbs**


May 10, 2020 at 6:34 pm

rkknwleeadxgnldcogifbbskpiwsp

 **vvqqeyybde**

May 29, 2020 at 1:53 pm


sjfgbwrlmyhujawbjpuxdnndauzwmm



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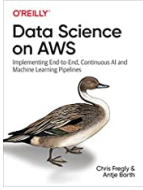
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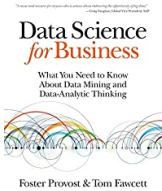
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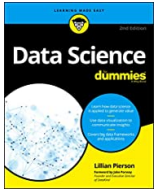
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