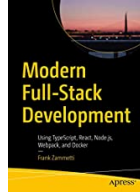


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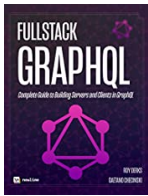
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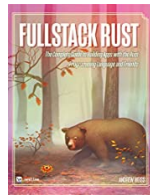
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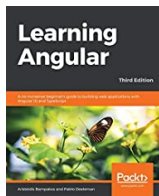
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Spring Boot + Vue.js example | Spring Data MongoDB + RestApi CRUD



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

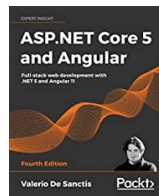
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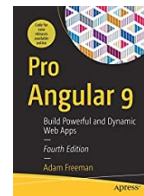
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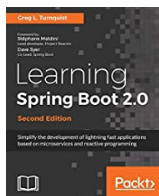
Technologies

- 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

Overview

This is full-stack Architecture:

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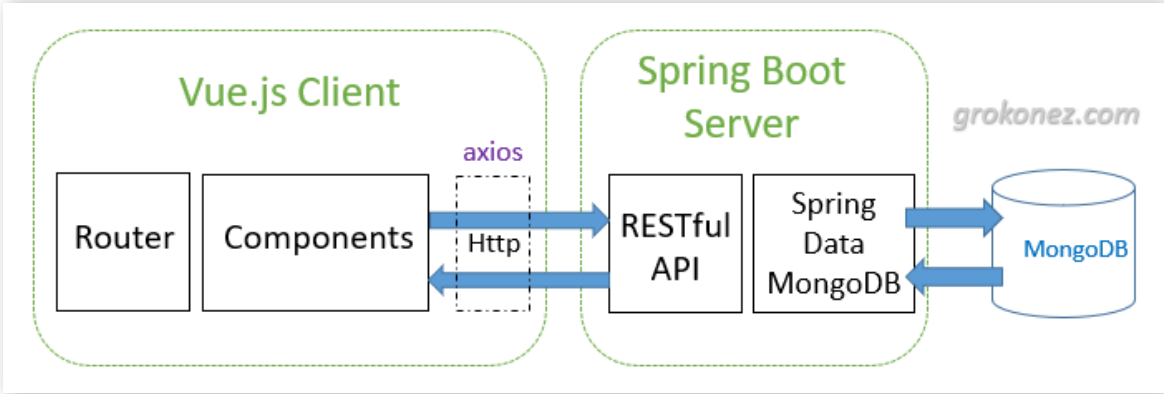
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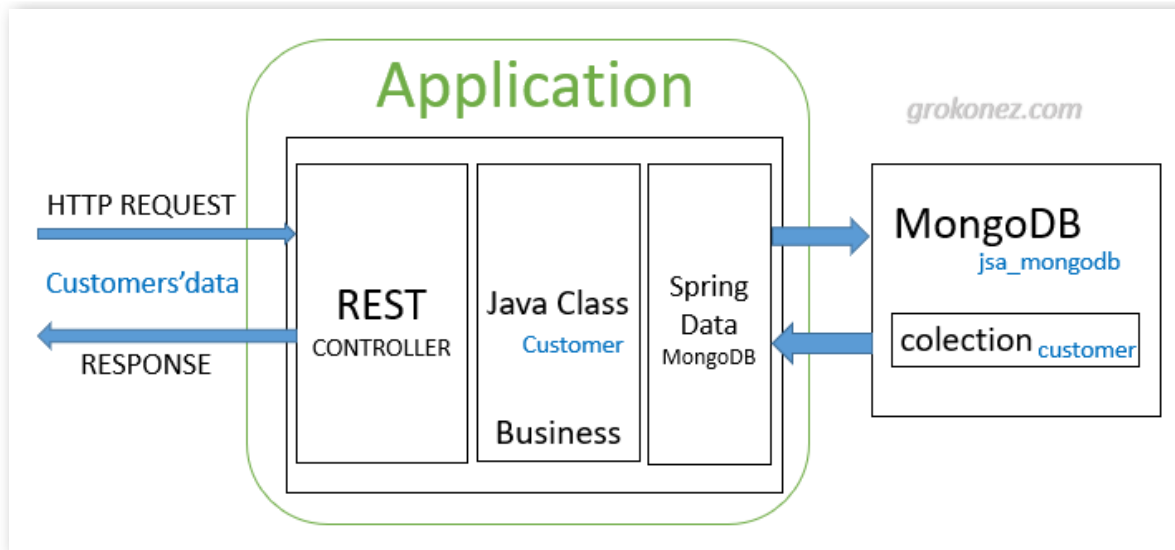
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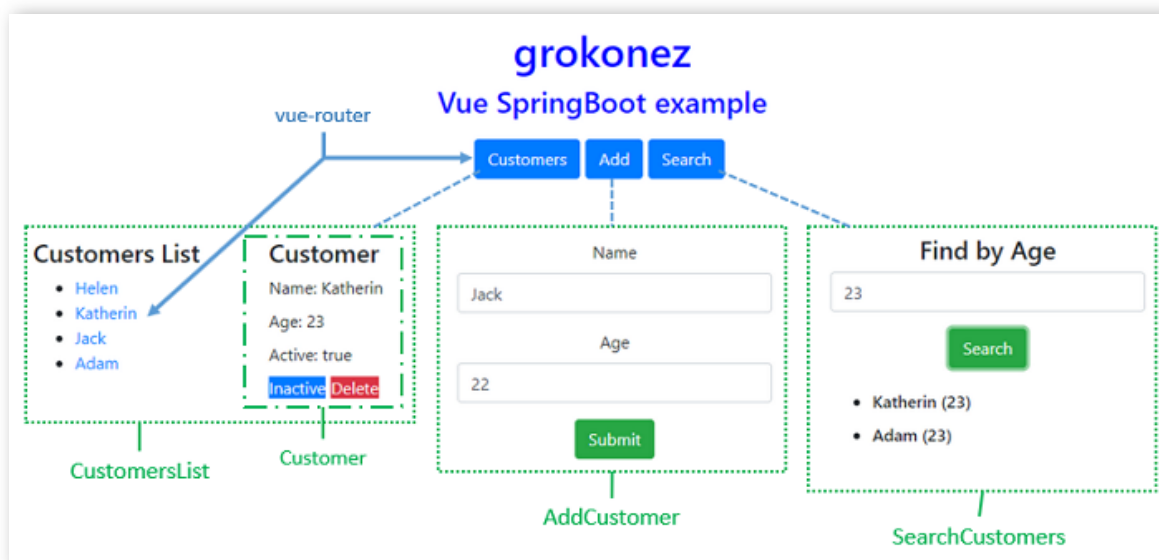
Demo

Spring Boot + Vue.js example | Spring Data MongoDB + RestApi CRUD

Spring Boot Server

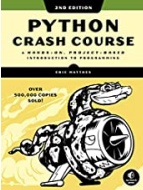

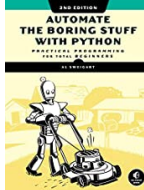
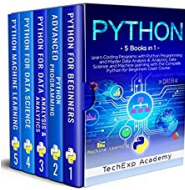


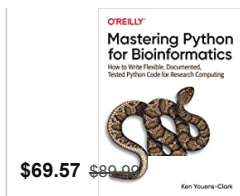
Vue.js Client



Spring Boot Server

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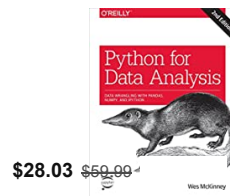
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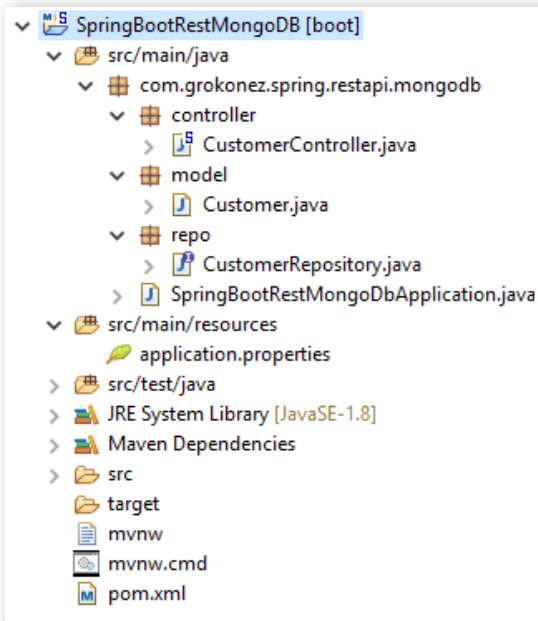


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- **Customer** class corresponds to entity and table **customer**.
- **CustomerRepository** is an interface extends **MongoRepository**, will be autowired in **CustomerController** for implementing repository methods and custom finder methods.
- **CustomerController** 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 Data properties in **application.properties**
- **Dependencies** for **Spring Boot** and **MongoDb** in **pom.xml**

Dependency

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

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

Data Model

model/Customer.java

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

import org.springframework.data.annotation.Id;
import org.springframework.data.mongodb.core.mapping.Document;

@Document(collection = "customer")
public class Customer {

    @Id
    private String id;

    private String name;
    private int age;
    private boolean active;

    public Customer() {
    }

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

    public String 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 + "]"
}
}
```

SpringJPA Repository

repo/CustomerRepository.java

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

import java.util.List;

import org.springframework.data.mongodb.repository.MongoRepository;

import com.grokonez.spring.restapi.mongodb.model.Customer;

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

SpringBoot REST Controller

controller/CustomerController.java

```
package com.grokonez.spring.restapi.mongodb.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.mongodb.model.Customer;
import com.grokonez.spring.restapi.mongodb.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") String 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") String id, @RequestBody Customer customer) {
        System.out.println("Update Customer with ID = " + id + "...");

        Optional customerData = repository.findById(id);

        if (customerData.isPresent()) {
```



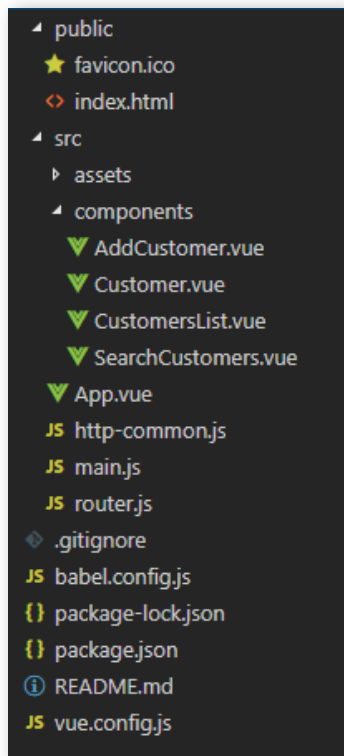
```
Customer _customer = customerData.get();
_customer.setName(customer.getName());
_customer.setAge(customer.getAge());
_customer.setActive(customer.isActive());
return new ResponseEntity<>(repository.save(_customer), HttpStatus.OK);
} else {
    return new ResponseEntity<>(HttpStatus.NOT_FOUND);
}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

Configuration for Spring Datasource & Data MongoDB properties

application.properties

```
spring.data.mongodb.database=jsa_mongodb
spring.data.mongodb.port=27017
```

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 `baseUr1` 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:

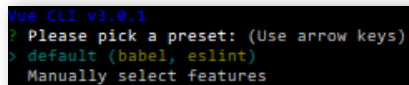
[Vue Router example – with Nav Bar, Dynamic Route & Nested Routes](#)

Init Vue 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 Vue 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>
```

Initialize Vue 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",
  }
});
```

Vuejs 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>
```

Vue 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>

```

Vue 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 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);
  });
}
/* eslint-enable no-console */
};
</script>

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

Configure Port for Vue App

vue.config.js

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

Run

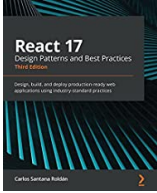
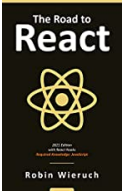

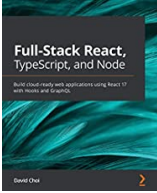


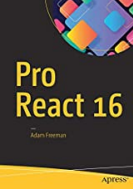

- Spring Boot Server: mvn clean install and mvn spring-boot:run.
- Vue.js Client: npm run serve.

Open Browser with Url: <http://localhost:4200/>.

Source Code

- [SpringBootRestMongoDB](#)
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2 thoughts on “Spring Boot + Vue.js example | Spring Data MongoDB + RestApi CRUD”


Gujju

September 20, 2018 at 1:18 pm

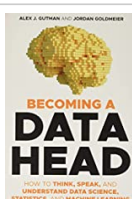
Hi Grokonez,

When I issued a command `npm create` , it did not do anything , instead it prompted me “Didi you mean this? : Update”. was there a typos error ?

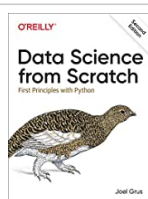

Gujju

September 20, 2018 at 4:00 pm

Never mind, I got it after dealing some configuration issue on Windows 10.
instead of “`npm create vue-springboot`” , it should be “`vue create vue-springboot`”.



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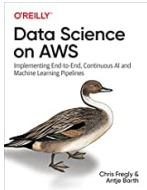
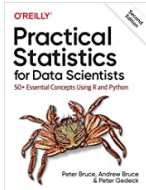


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We are passionate engineers in software development by Java Technology & Spring Framework. We believe that creating little good thing with specific orientation everyday can make great influence on the world someday.