

Implement a "Rest" Full Spring Boot Application Using Spring Rest, Spring Security and Spring Cache.

Aim:-

To develop a RESTFUL Spring Boot application using Spring Rest, Spring Security and Spring Cache.

Algorithm:-

Step 1 : Start

Step 2 : Open the Spring Boot application where we are going to perform Spring REST, Spring Security and Spring Cache.

Step 3 : Under Quote.java we are opening a package hello, under public Quote we get values type.

Step 4 : Under Quote.class we get the values from the user.

Step 5 : Then we have application.java, under which we have package hello.

Step 6 : Then we have value.java, where we get values and return the output to the users.

Step 7 : Under the package we import various spring framework.

Step 8 : The framework provides spring REST, Spring Security and Spring cache.

Step 9 : Stop.

Program:-

Quote.java

```
package hello;

import com.fasterxml.jackson.annotation.JsonIgnoreProperties;

@JsonIgnoreProperties(ignoreUnknown = true)

public class Quote {

    private String type;
    private Value value;

    public Quote() {

    }

    public void setType(String type) {
        this.type = type;
    }

    public Value getValue() {
        return value;
    }

    public void setValue(Value value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return "Quote{" +
            "type=" + type + '\n' +
            ", value=" + value +
            '3';
    }
}
```


Value.java

```
package hello;
import com.fasterxml.jackson.annotation.JsonIgnoreProperties;
```

```
@JsonIgnoreProperties(ignoreUnknown = true)
```

```
public class Value {
```

```
    private Long id;
```

```
    private String quote;
```

```
    public Value() {
```

```
    }
```

```
    public Long getId() {
```

```
        return this.id;
```

```
    }
```

```
    public String getQuote() {
```

```
        return this.quote;
```

```
    }
```

```
    public void setId(Long id) {
```

```
        this.id = id;
```

```
    }
```

```
    public void setQuote(String quote) {
```

```
        this.quote = quote;
```

```
    }
```

```
@Override
```

```
public String toString() {
```

```
    return "Value{" +
```

```
        "id=" + id +
```

```
        ", quote='" + quote + '\'' +
```


'3';

3

3

Application.java

package hello;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.boot.CommandLineRunner;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.boot.web.client.RestTemplateBuilder;

import org.springframework.context.annotation.Bean;

import org.springframework.web.client.RestTemplate;

@SpringBootApplication

public class Application {

private static final Logger log = LoggerFactory.getLogger(Application.class);

public static void main(String args[]) {

SpringApplication.run(Application.class);

}

@Bean

public RestTemplate restTemplate(RestTemplateBuilder builder) {

return builder.build();

}

@Bean

public CommandLineRunner run(RestTemplate restTemplate) throws Exception {

return args -> {

Quote quote = restTemplate.getForObject(

"http://gturnquist-quotes.cfapps.io/api/random";

Quote.class);

log.info(quote.toString());

};

}

}

Result:-

Thus the program to develop a RESTful Spring boot application using Spring REST, Spring security and Spring cache was executed successfully.

Output:-

Runner

Import

Builder

TeamLibrary

http://localhost:8080/x

+

No Environment

✓

GET ✓

http://localhost:8080/SpringBootRestApi/api/user

Params

Send

✓

Save

✓

Body

Cookies

Headers(s)

Tests

Status: 200 OK

Time: 49ms

Pretty

Raw

Preview

JSON ✓

1

✓

{

2

"id": 1,

3

"name": "Sam",

4

"age": 30,

5

"salary": 70000

6

}