

Implement a "Rest"ful 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 user.

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

Step 8 : The framework provide 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 + '\'' +

 ", value = '" + value +

 ' ';

}

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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 + '\'' +  
               "
```

'g';

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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);
    }
}
```

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@Bean

```
public RestTemplate restTemplate(RestTemplateBuilder builder) {
    return builder.build();
}
```

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@Bean

```
public CommandLineRunner run(RestTemplate restTemplate) throws Exception {
}
```

return args -> {

Quote quote = restTemplate.getForObject(

"http://gturnquist-quoter.cfapps.io/api/random",

Quote.class);

log.info(quote.toString());

}

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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

No Environment

http://localhost:8080/x +
GET http://localhost:8080/SpringBootRestApi/api/user Params Send Save

Status: 200 OK Time: 49ms

Body Cookies Headers(s) Tools

Pretty Raw Preview JSON

1 {
2 "id": 1,
3 "name": "Sam",
4 "age": 30,
5 "Salary": 70000
6 }