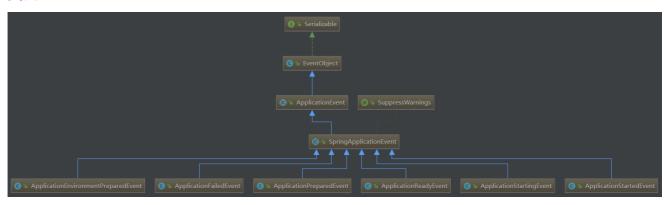
事件机制之 SpringApplicationEvent

概述

Spring的事件为Bean与Bean之间的通信提供了支持,当我们系统中某个Spring管理的Bean处理完某件事后,希望让其他Bean收到通知并作出相应的处理,这时可以让其他Bean监听当前这个Bean所发送的事件。

类图



源码解析

```
package org.springframework.boot.context.event;
import org.springframework.boot.SpringApplication;
import org.springframework.context.ApplicationEvent;
* 与SpringApplication相关的ApplicationEvent基类
*/
@SuppressWarnings("serial")
public abstract class SpringApplicationEvent extends ApplicationEvent {
   private final String[] args;
   public SpringApplicationEvent(SpringApplication application, String[] args) {
       super(application);
       this.args = args;
   }
   public SpringApplication getSpringApplication() {
       return (SpringApplication)this.getSource();
   public final String[] getArgs() {
       return this.args;
   }
}
```

使用

要实现事件的监听,我们要做两件事:

- 1:自定义事件,继承ApplicationEvent接口
- 2: 定义事件监听器,实现ApplicationListener
- 3:事件发布类

```
/**
```

```
* 自定义事件
*/
public class MessageEvent extends ApplicationEvent {
    * 序列化
   private static final long serialVersionID = 1L;
   /**
    * 收件人
    */
   public String receiver;
   /**
    * 收件内容
    */
   public String content;
   public MessageEvent(Object source) {
     super(source);
   }
   public MessageEvent(Object source, String receiver, String content) {
       super(source);
       this.receiver = receiver;
       this.content = content;
   }
   public void output(){
       System.out.println("I had been sand a message to " + this.receiver);
   }
}
* 定义监听事件
*/
@Component
public class MessageLisenter implements ApplicationListener<MessageEvent> {
   @Override
   public void onApplicationEvent(MessageEvent messageEvent) {
      messageEvent.output();
       System.out.println(messageEvent.receiver + "received msg : " + messageEvent.content );
}
@Component
public class Publisher {
   @Autowired
   ApplicationContext applicationContext;
   public void publish(Object source, String receiver, String content) {
       applicationContext.publishEvent(new MessageEvent(source, receiver, content));
   }
}
@Controller
@ResponseBody
@RequestMapping("/")
public class HelloController {
```

```
@Autowired
public Publisher publisher;

@RequestMapping("hello")
public void Hello() {
    publisher.publish("Hello,World!","Mr.Lensen", "I Love U");
}
```