




## Retry Event on top of auto-generated code.

 As part of the SMV API request new design validation there was naked rest which should not be the case that is why introduction of this page.

  AC-20: Retry Event on top of auto-generated code. **DONE**

 **Objective:** the purpose of this is to give the overview of retry event.

- create a retry event on an exception.
- showcase how many time the retry event is happening.

 owner [@indranil banerjee](#)

### Solution Approach:

- On top of [automatic code generator](#) please below dependencies.

```
<dependency>
  <groupId>org.springframework.retry</groupId>
  <artifactId>spring-retry</artifactId>
  <version>2.0.3</version>
</dependency>
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-aspects</artifactId>
  <version>6.0.11</version>
</dependency>
<!--retry event end-->
```

- please config the retry.

```
no usages
@Configuration
@EnableRetry
public class RetryConfig {
  //empty because changing some pro
}
```

- after that on the service in which you need to create the retry based on some exception, please add this.
  - retry is to do with multiple call.
  - recovery is to do with is retry also fails.

```

Usage
@Retryable(retryFor = TestException.class, maxAttempts = 2, backoff = @Backoff(delay = 100))
public Demo getDetails() throws TestException{
    int i =0;
    if(i==0){
        log.info("inside exception handler");
        throw new TestException("demo exception");
    }else{
        return Demo.builder().id(1).name("indranil").build();
    }
}
}
no usages
@Recover
public Demo getDetailsRecovery(TestException e){
    log.info("inside recovery");
    return Demo.builder().id(1).name(" recovered indranil").build();
}
}

```

### Expected output:

- please check as the retry event is for 2 times logs have been printed two times.
- then it has moved to recovery.

```

Usage
@Retryable(retryFor = TestException.class, maxAttempts = 2, backoff = @Backoff(delay = 100))
public Demo getDetails() throws TestException{
    int i =0;
    if(i==0){
        log.info("inside exception handler");
        throw new TestException("demo exception");
    }else{
        return Demo.builder().id(1).name("indranil").build();
    }
}
}
no usages
@Recover
public Demo getDetailsRecovery(TestException e){
    log.info("inside recovery");
    return Demo.builder().id(1).name(" recovered indranil").build();
}
}

```

How the structure is maintained

```

03-22T01:30:44.867-07:00 INFO 10392 --- [ AsynchThread-1] c.m.m.v2.controller.V2WebFluxController : inside the first class
03-22T01:30:44.867-07:00 DEBUG 10392 --- [io-8080-exec-10] m.m.a.RequestMappingHandlerAdapter : Using 'application/json', given [appl
03-22T01:30:44.867-07:00 TRACE 10392 --- [io-8080-exec-10] m.m.a.RequestMappingHandlerAdapter : Writing [java.util.concurrent.FutureT
03-22T01:30:44.867-07:00 TRACE 10392 --- [io-8080-exec-10] s.w.s.m.m.a.RequestMappingHandlerAdapter : Applying default cacheSeconds=-1
03-22T01:30:44.867-07:00 TRACE 10392 --- [io-8080-exec-10] o.s.web.servlet.DispatcherServlet : No view rendering, null ModelAndView
03-22T01:30:44.876-07:00 DEBUG 10392 --- [io-8080-exec-10] o.s.web.servlet.DispatcherServlet : Completed 200 OK, headers={masked}
03-22T01:30:44.897-07:00 INFO 10392 --- [ AsynchThread-1] c.m.m.v2.service.WebFluxService : inside exception handler
03-22T01:30:45.009-07:00 INFO 10392 --- [ AsynchThread-1] c.m.m.v2.service.WebFluxService : inside exception handler
03-22T01:30:45.011-07:00 INFO 10392 --- [ AsynchThread-1] c.m.m.v2.service.WebFluxService : inside recovery
src > main > java > com > mtm > manifestation > v2 > service > WebFluxService > getDetails
27:50 CRLF UTF-8 4 spaces

```

How the retry event is working.

### Action Item:

- ☒ @indranil banerjee give demo to the @Bipul Kumar .
- ☐ @Bipul Kumar to implement.

### Source Code:



**manifestation.zip**  
22 Mar 2024, 09:00 AM

Latest Code:  [indranb13/manifestation](#)