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Activity 3

CST-339

Instructor Mauger

7/3/24

Screenshots:

```
2024-07-03T16:33:24.507-07:00 INFO 115044 --- [to Hello from the OrdersBusinessService Hello from the OrdersBusinessService Hello from the OrdersBusinessService [
```

```
2024-07-03117:04:27.864-07:00 INFO 115044 --- [topic22] [nio-8080-exec-1] 2024-07-03T17:04:27.864-07:00 INFO 115044 --- [topic22] [nio-8080-exec-1] 2024-07-03T17:04:27.865-07:00 INFO 115044 --- [topic22] [nio-8080-exec-1] Hello from the AnotherOrdersBusinessService
```

```
2024-07-03117.43.23.910-07.00 INFO 101320 --- [
2024-07-03T17:45:23.910-07:00 INFO 161320 --- [
Hello from the SecurityBusinessService
Hello from the SecurityBusinessService
```

< > e		localhost:8080/	login/doLogin		
VouTube 📗 Gcu Portal					
Order Number	Product Name	Price	Quantity		
000000001	Product 1	1.0	1		
000000002	Product 2	2.0	2		
000000003	Product 3	3.0	3		
000000004	Product 4	4.0	4		
000000005	Product 5	5.0	5		

```
2024-07-03T22:58:24.743-07:00 INFO 329036 --- [topic22] [ resta 2024-07-03T22:58:24.745-07:00 INFO 329036 --- [topic22] [ resta this is the init method 2024-07-03T22:58:25.198-07:00 INFO 329036 --- [topic22] [ resta 2024-07-03T22:58:25.221-07:00 INFO 329036 --- [topic22] [ resta 2024-07-03T22:58:25.228-07:00 INFO 329036 --- [topic22] [ resta 2024-07-03T22:58:29.883-07:00 INFO 329036 --- [topic22] [nio-808 2024-07-03T22:58:29.883-07:00 INFO 329036 --- [topic22] [nio-808 2024-07-03T22:58:29.884-07:00 INFO 329036 --- [topic22] [nio-808 2024-07-03T22:58:29.844-07:00 INFO 329036 --- [topic22] [nio-808 2024-07-03T22:58:29.444-07-03T22:58:29.444-07-03T22:58:29.444-07-03T22:58:29.
```

of the ordersBusinessService bean where the Spring application context starts up.

@Configuration indicates it contains bean definitions for the Spring application context. The init() method is called by the Spring container after the bean is instantiated and initialized, to receive the console message. The destroy() method is called before the bean is destroyed and

The init() method of OrderBusinessService would be called once during the initialization

```
Hello from the SecurityBusinessService this is the init method
Hello from the SecurityBusinessService this is the init method
Hello from the SecurityBusinessService this is the init method
```

when the application stops.

The OrdersBusinessService init() method is called each time a new instance of the bean is created because it is scoped as prototype. This means that the init() method is called every time the bean is requested, leading to multiple calls if the form is submitted multiple times, as seen in the console output.

```
2024-07-04T14:25:14.635-07:00 INFO 59948 ---
Hello from the SecurityBusinessService
this is the init method
This is the destroy method
```

The OrdersBusinessService init() method is called each time a new instance of the bean is created, which happens every time the login form page is requested because the bean is now scoped to the request. This means that the init() method is called every time the form is submitted, resulting in multiple init() calls as seen in the console output.

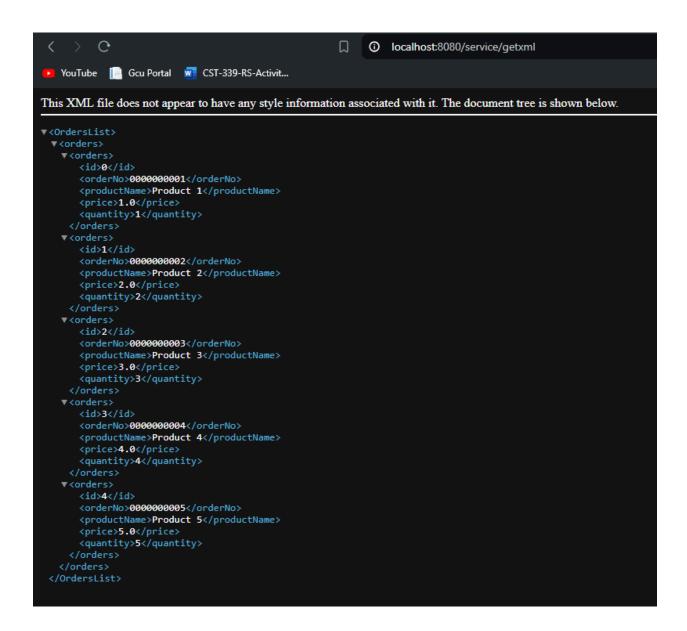
```
2024-07-04T15:27:05.259-07:00 INFO 59948 --
Hello from the SecurityBusinessService
this is the init method
```

The OrdersBusinessService init() method is called once per unique browser session because the bean is now in session scope. This means that init() is called the first time the login form is requested in each new session, resulting in one call per browser session as seen in the console output.

```
2024-07-04T15:32:31.607-07:00 INFO 59948 --- [topi 2024-07-04T15:32:31.607-07:00 INFO 59948 --- [topi 2024-07-04T15:32:31.608-07:00 INFO 59948 --- [topi Hello from the SecurityBusinessService
```

The OrdersBusinessService init() method is called only once when the application context is initialized because the bean is now in singleton scope. This means that the init() method is not called again with each form submission, resulting in a single call to init() as seen in the console output.





```
JSON from Postman:
  {
    "id": 0,
    "orderNo": "0000000001",
    "productName": "Product 1",
    "price": 1.0,
    "quantity": 1
  },
  {
    "id": 1,
    "orderNo": "0000000002",
    "productName": "Product 2",
    "price": 2.0,
    "quantity": 2
  },
    "id": 2,
    "orderNo": "0000000003",
    "productName": "Product 3",
    "price": 3.0,
    "quantity": 3
  },
    "id": 3,
    "orderNo": "0000000004",
```

XML from Postman:

```
[{"id":0,"orderNo":"0000000001","productName":"Product
1","price":1.0,"quantity":1}, {"id":1,"orderNo":"0000000002","productName":"Product
2","price":2.0,"quantity":2}, {"id":2,"orderNo":"0000000003","productName":"Product
3","price":3.0,"quantity":3}, {"id":3,"orderNo":"0000000004","productName":"Product
4","price":4.0,"quantity":4}, {"id":4,"orderNo":"0000000005","productName":"Product
5","price":5.0,"quantity":5}]
```

No parameters required for both XML, and JSON. Get methods make up each of these responses.