Reactive Programing using webFlux:

intended for only dev and architect.

asper the discussion on cashback and MOMO balance with @Taniya Biswas if the TPS of current system does not match required TPS then we have to do for this approach.

- owner @indranil banerjee
- Objective:

Create a configuration Service Layer(manifestation), and two other API COMMECTONE, CONNECTTWO

- Create FLUX RANGE (SAME KIND OF OPERATION), FLUX JUST for different kind of operation.
- create communication, Through different module. Manifestation to CONNECTONE, CONNECTTWO
- show the non-blocking events.

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PROBLEM STATEMENT:

As part of the discussion for TPS increase this will give the increased TPS, approach one we have already covered approach two we will
discussed here.

SOLUTION APPROCH:

Connect one service:

connect one service should give user a experience on non -blocking queue.

delayed one second same kind of event.

output response.

```
data:{"id":1,"name":"DemoObject1"}

data:{"id":2,"name":"DemoObject2"}

data:{"id":3,"name":"DemoObject3"}

data:{"id":4,"name":"DemoObject4"}

data:{"id":5,"name":"DemoObject5"}

data:{"id":6,"name":"DemoObject6"}

data:{"id":7,"name":"DemoObject7"}

data:{"id":9,"name":"DemoObject8"}

data:{"id":9,"name":"DemoObject9"}

data:{"id":10,"name":"DemoObject10"}
```

output events for non-blocking queues.

Connect two service:

connect one service should give user experience on non -blocking queue.

connecting through different kind of services.

output format.

```
data:{"id":1, name":"indranil"}
data:{"id":2,"name":"Naba"}
```

output of different kind of event.

manifestation:

Please see how this two API are getting connected.

output response.

```
-8080-exec-3] o.s.web.servlet.DispatcherServle
                                                               : [226bdf91] HTTP GET http://localhost:8081/demoObjects/stream, headers: [2c924a60] HTTP GET http://localhost:8082/demoObjects/stream, headers
 AsynchThread-1] o.s.w.r.f.client.ExchangeFunctions
 AsynchThread-11 c.m.m.v2.service.WebFluxService
                                                               : inside exception handler
[ AsynchThread-1] c.m.m.v2.service.WebFluxService
                                                               : inside exception handler
[ AsynchThread-1] c.m.m.v2.service.WebFluxService
                                                               : inside recovery
                                                               : [2c924a60] [eca0af29-1] Response 200 OK, headers={masked}
                                                               : [2c924a60] [eca0af29-1] Decoded [DemoObject(id=1, name=indranil)]
[ctor-http-nio-3] org.springframework.web.HttpLogging
                                                               : [2c924a60] [eca0af29-1] Decoded [DemoObject(id=2, name=Naba)]
[ctor-http-nio-2] o.s.w.r.f.client.ExchangeFunctions
[ctor-http-nio-2] org.springframework.web.HttpLogging
                                                                 [226bdf91] [b1f03320-1] Decoded [DemoObject(id=2, name=DemoObject2)]
                                                               : [226bdf91] [b1f03320-1] Decoded [DemoObject(id=3, name=DemoObject3)]
[ctor-http-nio-2] org.springframework.web.HttpLogging
[ctor-http-nio-2] org.springframework.web.HttpLogging
                                                               : [226bdf91] [b1f03320-1] Decoded [DemoObject(id=9, name=DemoObject9)]
```

see all the are coming.

Action Item:

- demo given to developer done by @indranil banerjee

Source Code:

