**Objective:**

This service is to get all the list of active employees with IsEligibleForPromotion attribute. Use

**Services:**

**EmployeeService**(Will have employee details like EmployeeId, Name, Age, Gender, Address, **IsActive**)

**HcmService** (Will have hcm details like EmployeeId, Experience, YearsInCurrentRole, GoalCompletedForCurrentYear, ClientAppreciationForCurrentYear)

**PromotionCalulatorService** (Will help to calculate promotion using the rules mentioned)

1. **EmployeeService** (Employee.java --> EmployeeId, Name, Age, Gender, Address, IsActive)

               //CreateEmployee(Employee employee):int  --> (IsActive = Y, EmployeeId will be unique system generated) - it should return employeeId

               //DeleteEmployee(Optional int employeeId) --> by EmployeeId if inactive or delete all the employees who is inactive

               //UpdateEmployee(Employee employee):Int --> Return employeeId

               //ReadAllEmployee(String IsActive):List<EmployeeResponse> --> (EmployeeResponse -- EmployeeId, Name, Age, Gender, Address, **IsEligibleForPromotion**)

1. **HcmService**

               HcmController (HCM.java --> EmployeeId, Experience, YearsInCurrentRole, GoalCompletedForCurrentYear, ClientAppreciationForCurrentYear)

              //Create HCM for employeeId

CreateHcm(Hcm hcm):Integer

              //Update HCM by EmployeeId

UpdateHcm(Hcm hcm): EmployeeId

              //Read HCM

ReadHcmById(int EmployeeId): HCM

1. **PromotionCalulatorService**

**PromotionCalulatorController**

                  //isEligible (use below condition to mark the employee as eligible for promotion)

isEligible(int EmployeeId):String

    -- Rule1: if eligibleStatus  is Y, min.3 years in current role and if GoalCompletedForCurrentYear?

    -- Rule2: if eligibleStatus  is Y, min.3 years in current role and if ClientAppreciationForCurrentYear?

1. **NewService**
2. **NewsConsumer :-**

It should be kafka consumer and it will receive the message in below format and based on the message it should process the employee/hcm records by following below mentioned rules.

                               InputJson:

**Severity: 3**

**Reason: US RECESSION IMPACT**

**ForceTermination: Y**

   -- Rule1: (min.2 years in current role and if GoalCompletedForCurrentYear and ForceTermination= Y) OR (min.2 years in current role and if ClientAppreciationForCurrentYear and ForceTermination= Y)  ? **IsActive**=Y : IsActive=N

1. **KafkaController :-**

               POST API to producer data to kafka news topic:

                               API request body : {

Severity: 3

                                               Reason: US RECESSION IMPACT

                                               ForceTermination: Y

}

* Validate all parameters(null check and valid value for ForceTermination) and send data to kafka news topic.