Create Eureka Discovery Server and register microservices Problem

* [**Details**](https://cognizant.e-box.co.in/problem/show/9601#tab1)

Reference Code : FSE-MCR-005Complexity : Level1

**Create Eureka Discovery Server and register microservices**   
  
Eureka Discovery Server holds a registry of all the services that are available for immediate consumption. Anybody whom wants to consume a RESTful Web Service can come to the discovery server and find out what is available and ready for consumption. Eureka Discovery Server is part of spring cloud module.  
  
Follow steps below to implement:  
  
**Create and Launch Eureka Discovery Server**

* Using https://start.spring.io generate a project with following configuration:
  + Group: com.cognizant
  + Artifact: eureka-discovery-server
  + Module: Spring Cloud Discovery > Eureka Server
* Download the project, build it using maven in command line
* Import the project in Eclipse
* Include @EnableEurekaServer in class EurekaDiscoveryServerApplication
* Include the following configurations in application.properties:

server.port=8761

eureka.client.register-with-eureka=false

eureka.client.fetch-registry=false

logging.level.com.netflix.eureka=OFF

logging.level.com.netflix.discovery=OFF

* The above configuration runs the discovery service in port 8761
* The eureka properties prohibits direct registration of services, instead discovery server will find available services and register them.
* Launch the service by running the application class
* The discovery service can be view by launching http://locahost:8761 in the browser.
* This will display the discover server details
* Look into the section "Instances currently registered with Eureka", which will have an empty list
* Follow steps below to add account and loan service to this discovery server.

**Register Account REST API to eureka discovery**

* Go to https://start.spring.io and provide the following configuration:
  + Group: com.cognizant
  + Artifact: account
  + Modules:
    - Spring Boot DevTools
    - Eureka Discovery Client
    - Spring Web
* Click "Explore", which will open pom.xml
* Use copy option in the opened window to copy the pom.xml and overwrite the pom.xml in account project
* Build the project using maven in console
* Include @EnableDiscoveryClient annotation to  application class of account project
* Include application name for account application as specified below in application.properties. This is the name that will be displayed in the eureka discovery registry.

spring.application.name=account-service

* Stop all services (account, loan, eureka-discovery-server) using the console window of Eclipse. Use the monitor icon in console view to switch between applications and use the Terminate button to stop the server.
* First start eureka-discovery-server and wait till the application starts completely. Then open http://locahost:8761 in browser. The service list should be empty.
* Then start account application and wait till the application starts.
* Refresh the eureka-discovery-server web page in browser, the account-service will be listed in the registry
* Perform similar steps for loan application and have it registered with eureka-discovery-server.