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| **Eureka Server 1. Associates must have created a eureka server using springboot application and enabled eureka clients. 2. The pom.xml must contain the dependency for the eureka server and eureka client as "spring-cloud-starter-eureka-server" & “spring-cloud-starter-eureka” respectively or equivalent as per the spring cloud version used. 3. Associates must have enabled the eureka server with the annotation "@EnableEurekaServer" or the equivalent annotation in the main application file. 4. Associates must have set the properties in the properties files of the service. 5. Associates must have enabled the discovery client in the springboot application file of all the 3 services using annotation "@EnableDiscoveryClient"** | |  |  |  |  | | --- | --- | --- | --- | | Eureka server is not created.  ***0points*** | Eureka server is created but not running due to some issues.  ***5points*** | Eureka server is running but service is not registered.  ***10points*** | Eureka server is running and service is registered.  ***15points*** | |
| **Circuit Breaker using Hystrix 1. Associates must have added the dependency " spring-cloud-services-starter-circuit-breaker " or the equivalent in the microservice pom.xml. 2. Associate must have used the annotation " @EnableCircuitBreaker " or the equivalent in the controller of the customer service" 3. Associate must have created Exception triggering method having the fallback method call enabled using @HystrixCommand(fallbackMethod="method name").** | |  |  |  |  | | --- | --- | --- | --- | | Circuit breaker has not been implemented.  ***0points*** | Circuit breaker has been implemented but fallback method has not been configured.  ***5points*** | Circuit Breaker and fallback have been implemented, but are not working.  ***10points*** | Circuit Breaker works as expected.  ***15points*** | |
| **Spring Cloud Config Server 1. Associates must have created a config server. 2. Config server should store the properties of the microservices and during execution, it should pick the properties from the centralized configuration. 3. Associates should exhibit "/refresh" without restarting the services by modifying the values in the properties file.** | |  |  |  |  | | --- | --- | --- | --- | | Config server has not been not created.  ***0points*** | Config server has been created but git and git uri have not been set in the configuration server.  ***5points*** | Config server and other configurations have been done but are not working.  ***10points*** | Config server works as expected.  ***15points*** | |
| **Load balancing using ribbon 1. Associate must have implemented the load balancing using ribbon. 2. Associate is able to give a demo of any 1 microservice with 2 instances.** | |  |  |  |  | | --- | --- | --- | --- | | Load balancing not implemented.  ***0points*** | Load balancing has been implemented but the configurations are not done properly.  ***5points*** | Load balancing has been Implemented and configured completely but demo fails.  ***10points*** | Load balancing working as expected and demo is successful.  ***15points*** | |
| **Config server in pivotal 1. Associates must have configured an instance of config server in Pivotal. 2. Bind the microservice to the config server. 3. Have the properties value set in the repository. 4. Ensure to pick the properties from the config server during execution.** | |  |  |  |  | | --- | --- | --- | --- | | Config server is not created in Pivotal Cloud Environment.  ***0points*** | Config server created and bound but git configuration not implemented.  ***5points*** | Config server and git configuration done but not working.  ***10points*** | Config server works as expected in Pivotal cloud environment.  ***15points*** | |
| **Eureka server in Pivotal 1. Associates must configure Eureka server in Pivotal cloud environment. 2. The microservices must register with Eureka server and the instances must be seen in the Eureka server.** | |  |  |  |  | | --- | --- | --- | --- | | Eureka server is not created in Pivotal cloud environment.  ***0points*** | Eureka server created but binding not done.  ***5points*** | Eureka server is implemented but not working.  ***10points*** | Eureka server works as expected on Pivotal cloud environment.  ***15points*** | |