

Assignment on Micro services and cloud

1. Design a Micro service for ProductCatalog

@GetMapping

```
public List<Product> listAll() {  
    return prodService.listAll();  
}
```

@PostMapping

```
public void saveProduct(@RequestBody Product product) {  
    prodService.saveProduct(product);  
}
```

@GetMapping(value =("/{id}")

```
public Product findById(@PathVariable("id") String id) {  
    return prodService.findById(id);  
}
```

@DeleteMapping

```
public void deleteProduct(@RequestBody Product product) {  
    prodService.deleteProduct(product);  
}
```

@DeleteMapping("/{id}")

```
public void deleteProductById(@PathVariable("id") String id) {  
    prodService.deleteById(id);  
}
```

@GetMapping(value = "/byName/{name}")

```
public List<Product> findByName(@PathVariable("name") String name) {  
    return prodService.findByName("%name + \"%");  
}
```

@GetMapping("/{byNameSort}/{name}/conf/{sortType}")

```
public List<Product> findByAndSort(@PathVariable("name")String  
name,@PathVariable("sortType")String sortType ,Sort sort) {  
    return prodService.findByAndSort("%"+name+"%", new  
Sort(Sort.Direction.ASC,sortType));  
}
```

@GetMapping("/{byDate}/{fromDate}/conf/{toDate}")

```
public List<Product> findByDate(@PathVariable("fromDate") String  
fromDate, @PathVariable("toDate") String toDate) throws ParseException {  
  
    return prodService.findByDate(new SimpleDateFormat("yyyy-mm-  
dd").parse(fromDate), new SimpleDateFormat("yyyy-mm-dd").parse(toDate));  
}
```

```

    }

    @GetMapping(value="/byPrice/{min}/conf/{max}")
    public List<Product> findByPrice(@PathVariable("min") double min,
    @PathVariable("max") double max) {
        return prodService.findByPrice(min, max);
    }

```

2. Make sure you are creating Service and Dao classes as per the method signature given from above RestController class.
3. Your application properties file should have following data base information

```

spring.jpa.hibernate.ddl-auto=update
spring.datasource.url=jdbc:mysql://localhost:3306/test
spring.datasource.username=root
spring.datasource.password=root1234
spring.jpa.show-sql=true

server.port=8081

```

Note: You can configure any database server which is of your choice

4. Create a config server and add above properties file into **product-catalog.properties** At <https://github.com/ctsjava/globalconfig> web site (or you may use your won)
5. Now write a Config Client program to read all your properties file from the config server and access the end point urls from the above-mentioned controller class.