Case Study 1: Java-Based Configuration

Project Title: Online Food Ordering System

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Customer.java
package com.example.javaBasedConfiguration;
public class Customer {
       public String name;
       public String contact;
       public String cuisine;
       public Customer(String name, String contact, String cuisine) {
               this.name = name;
               this.contact = contact;
               this.cuisine = cuisine;
       public String getName() {
               return name;
       }
       public String getContact() {
               return contact;
       }
       public String getCuisine() {
               return cuisine;
       }
}
Restaurant.java
package com.example.javaBasedConfiguration;
import java.util.List;
public class Restaurant {
       private String name;
       private String location;
       private List<String> availableCuisines;
       public Restaurant(String name, String location, List<String> availableCuisines) {
               this.name = name;
               this.location = location;
               this.availableCuisines = availableCuisines;
       }
       public String getName() {
               return name;
       }
```

```
public String getLocation() {
               return location;
       public boolean isCuisineAvailable(String cuisine) {
               return availableCuisines.contains(cuisine);
       }
}
FoodOrderService.java
package com.example.javaBasedConfiguration;
public class FoodOrderService {
       private Customer customer;
       private Restaurant restaurant;
       public FoodOrderService(Customer customer, Restaurant restaurant) {
               this.customer = customer;
              this.restaurant = restaurant;
       }
       public void orderFood() {
               System.out.println("Customer: "+ customer.getName() + ", Contact info: "+
customer.getContact()+ ", requested for: ""+ customer.getCuisine()+""");
               if(restaurant.isCuisineAvailable(customer.getCuisine())) {
                      System.out.println("Order successfully place at: "+ restaurant.getName()+",
Location: "+ restaurant.getLocation());
              }
              else {
                      System.out.println("Your requested cuisine ""+ customer.getCuisine()+" is
not available.");
       }
}
AppConfig.java
package com.example.javaBasedConfiguration;
import java.util.Arrays;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
@Configuration
public class AppConfig {
       @Bean
       public Customer customer() {
```

```
return new Customer("Alice", "999999999", "sdc");
       }
       @Bean
       public Restaurant restaurant() {
              return new Restaurant("Udipi", "Hyderabad", Arrays.asList("Dosa", "Idly",
"Noodles", "Upma"));
       @Bean
       public FoodOrderService foodOrderService() {
              return new FoodOrderService(customer(),restaurant());
       }
}
MainApp.java
package com.example.javaBasedConfiguration;
import org.springframework.context.ApplicationContext;
import org.springframework.context.annotation.AnnotationConfigApplicationContext;
public class MainApp {
       public static void main(String[] args) {
              ApplicationContext <u>context</u> = new
AnnotationConfigApplicationContext(AppConfig.class);
              FoodOrderService service = context.getBean(FoodOrderService.class);
              service.orderFood();
       }
}
```