Case Study 1: XML-Based Configuration

Case Study Title: Hospital Management System

pom.xml

```
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0"
https://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
<groupId>com.example.hospital</groupId>
<artifactId>hospital-management-xml</artifactId>
<version>0.0.1-SNAPSHOT</version>
 <dependencies>
<dependency>
<groupId>org.springframework</groupId>
<artifactId>spring-context</artifactId>
<version>5.3.33</version>
</dependency>
</dependencies>
</project>
Patient.java
package com.example.hospital;
public class Patient {
      public void registerPatient() {
              System.out.println("Patient registered successfully.");
      public void getPatientDetails() {
              System.out.println("Patient details.");
      }
}
Appointment.java
package com.example.hospital;
public class Appointment {
      public void bookAppointment() {
              System.out.println("Appointment booked successfully.");
      public void cancelAppointment() {
              System.out.println("Your appointment cancelled successfully.");
      }
}
```

```
Billing.java
package com.example.hospital;
public class Billing {
       public void generateBill() {
               System.out.println("Invoice(Bill) generated successfully.");
       public void sendBill() {
               System.out.println("Bill sent to the patients' email successfully.");
       }
}
HospitalService.java
package com.example.hospital;
public class HospitalService {
        private Patient patient;
        private Appointment appointment;
        private Billing billing;
        public void setPatient(Patient patient) {
               this.patient = patient;
        public void setAppointment(Appointment appointment) {
                this.appointment = appointment;
        public void setBilling(Billing billing) {
                this.billing = billing;
        public void patient() {
                patient.registerPatient();
                patient.getPatientDetails();
       }
        public void appointment() {
                appointment.bookAppointment();
                appointment.cancelAppointment();
        }
        public void bill() {
                billing.generateBill();
                billing.sendBill();
        }
}
```

MainApp.java