

HOSPITAL MANAGEMENT SYSTEM

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SINGLETON

Appointment
- uniqueAppointment : Appointment + appointments : LinkedList<>
+ getAppointments() : Appointment + displayAppointments() : void

```
class Appointment{
    private static Appointment uniqueAppointment = new Appointment();
    public LinkedList<AppointmentModel> appointments = new LinkedList<>();
    private Appointment(){
    public static Appointment getAppointment(){
        return uniqueAppointment;
    }
    public void displayAppointments() {
        System.out.println("Appointments:");
        for (AppointmentModel appointment : appointments) {
            System.out.println(appointment.fullName);
        }
    }
}
```

COMMAND

```
Doctor doctorDeniz = new Doctor("Deniz","Lale",Department.RADIOLOGY);
```

```
Patient patientAlp = new Patient("Alp","Best");
```

```
Nurse nurse = new Nurse("Aylin","Aksu",Department.RADIOLOGY);
```

```
Laborant laborant = new Laborant("Feride","Ekici");
```

```
Treatment treatment = new Inspection();
```

```
HormoneTest hormoneTest = new HormoneTest(laborant, treatment, patientAlp, doctorDeniz);
```

```
nurse.setTests(hormoneTest);
```

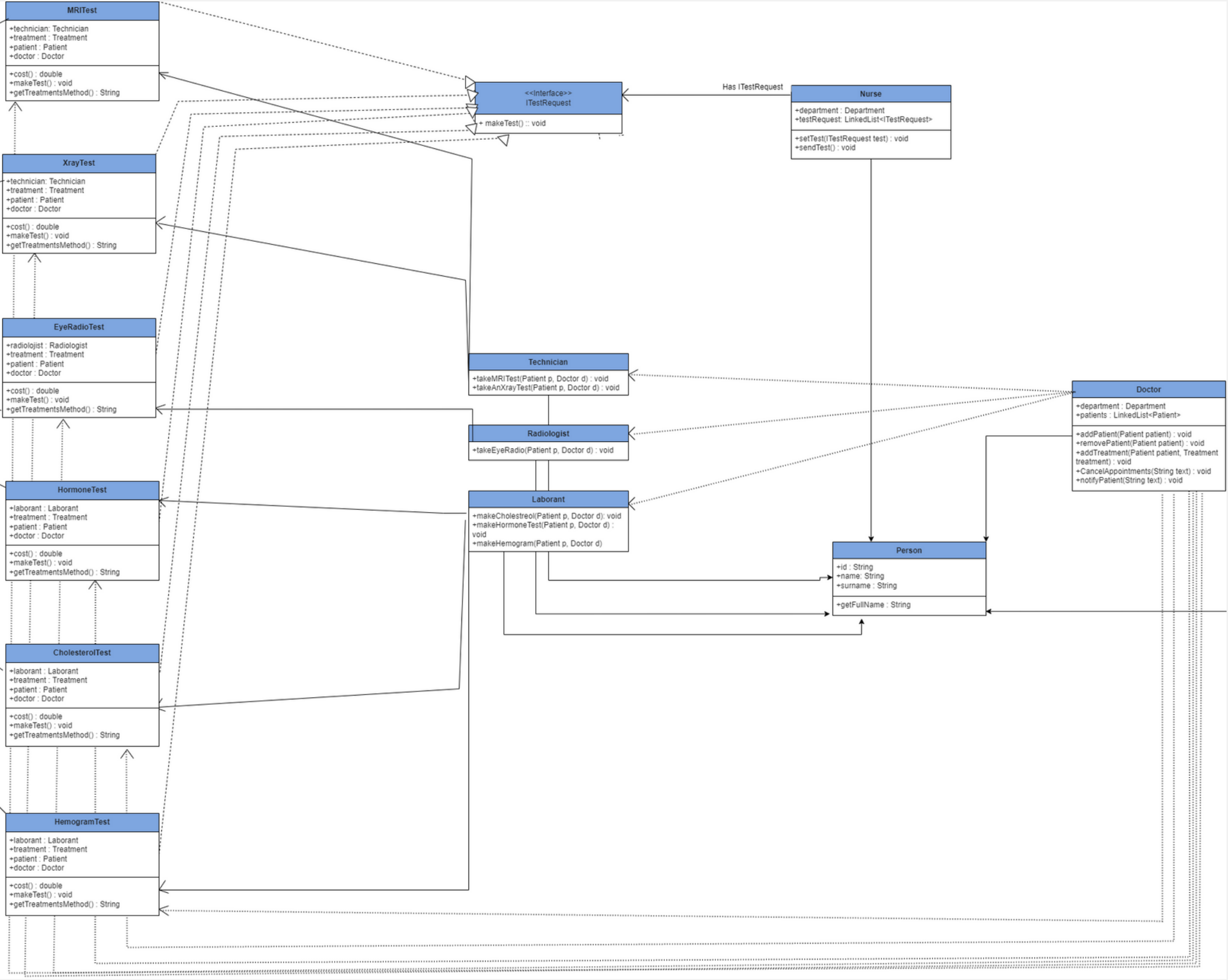
```
nurse.sendTest();
```

```
HemogramTest hemogramTest = new HemogramTest(laborant,treatment,patientAlp,doctorDeniz);
```

```
nurse.setTests(hemogramTest);
```

```
nurse.sendTest();
```

```
Hormone test requested by Deniz Lale taken forAlp Best and reported.  
Hemogram test requested by Deniz Lale taken forAlp Best and reported.
```



DECORATOR

```
Doctor doctor = new Doctor("Deniz","Lale",Department.RADIOLOGY);
```

```
Patient patient= new Patient("Alp","Best");
```

```
Nurse nurse = new Nurse("Aylin","Aksu",Department.RADIOLOGY);
```

```
Laborant laborant = new Laborant("Feride","Ekici");
```

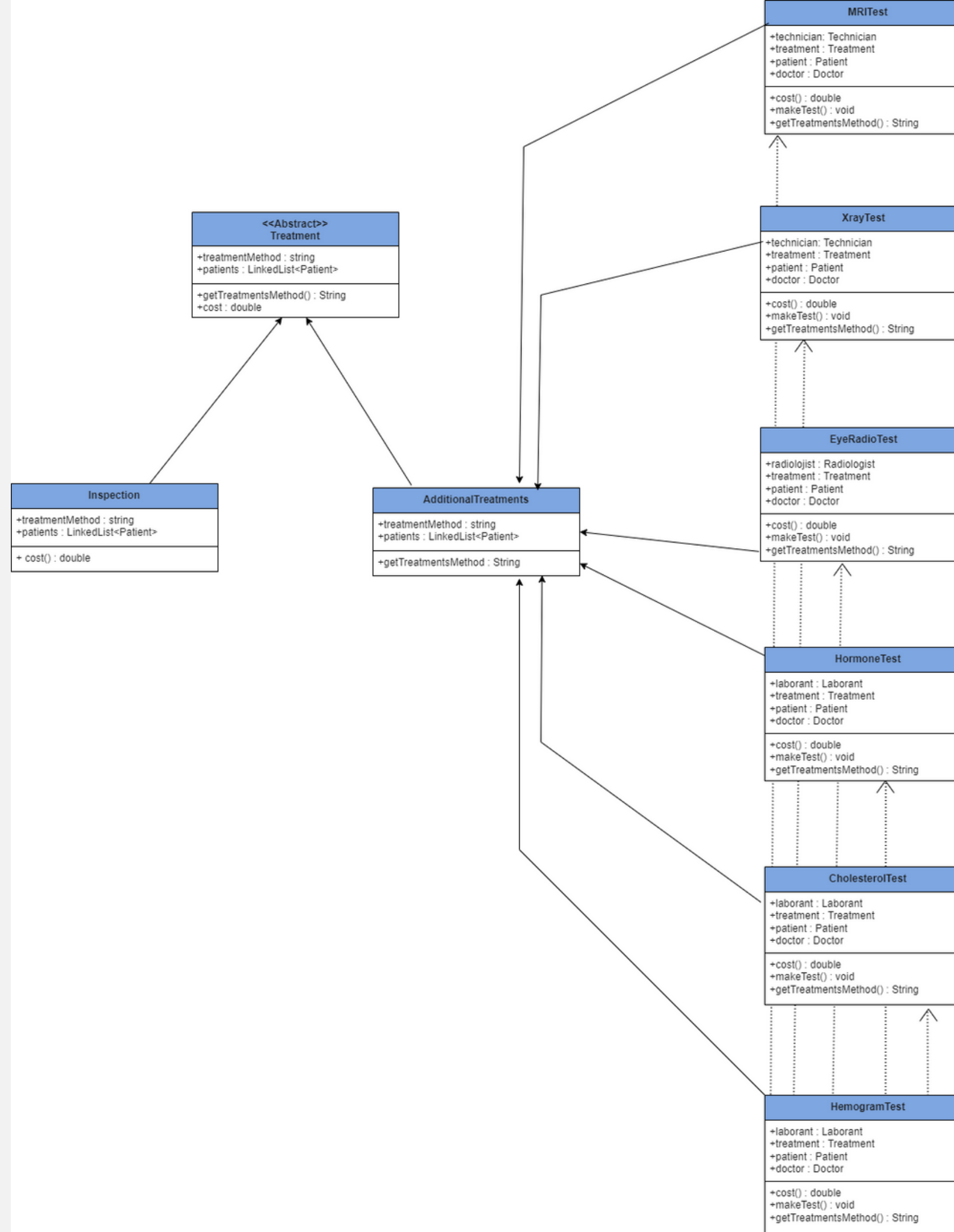
```
Treatment treatment = new Inspection();
```

```
treatment = new HormoneTest(laborant, treatment,patient,doctor);
```

```
treatment = new HemogramTest(laborant, treatment,patient,doctor);
```

```
System.out.println( treatment.getTreatmentsMethod() +"\n"+treatment.Cost());
```

```
Inspection, HormoneTest, HemogramTest  
530.0
```



OBSERVER

```
Doctor doctor = new Doctor("Deniz","Lale",Department.RADIOLOGY);
```

```
Patient patient = new Patient("Alp","Best");
```

```
Patient patient1 = new Patient("Nalan", "Gelir");
```

```
doctor.addPatient(patient);
```

```
doctor.addPatient(patient1);
```

```
doctor.CancelAppointments("Cancelled");
```

```
Appointment Cancelled for Alp Best  
Appointment Cancelled for Nalan Gelir
```


UML DIAGRAM

