Hacettepe University

BBM104 Introduction to Programming Laboratory II

Assignment III Report

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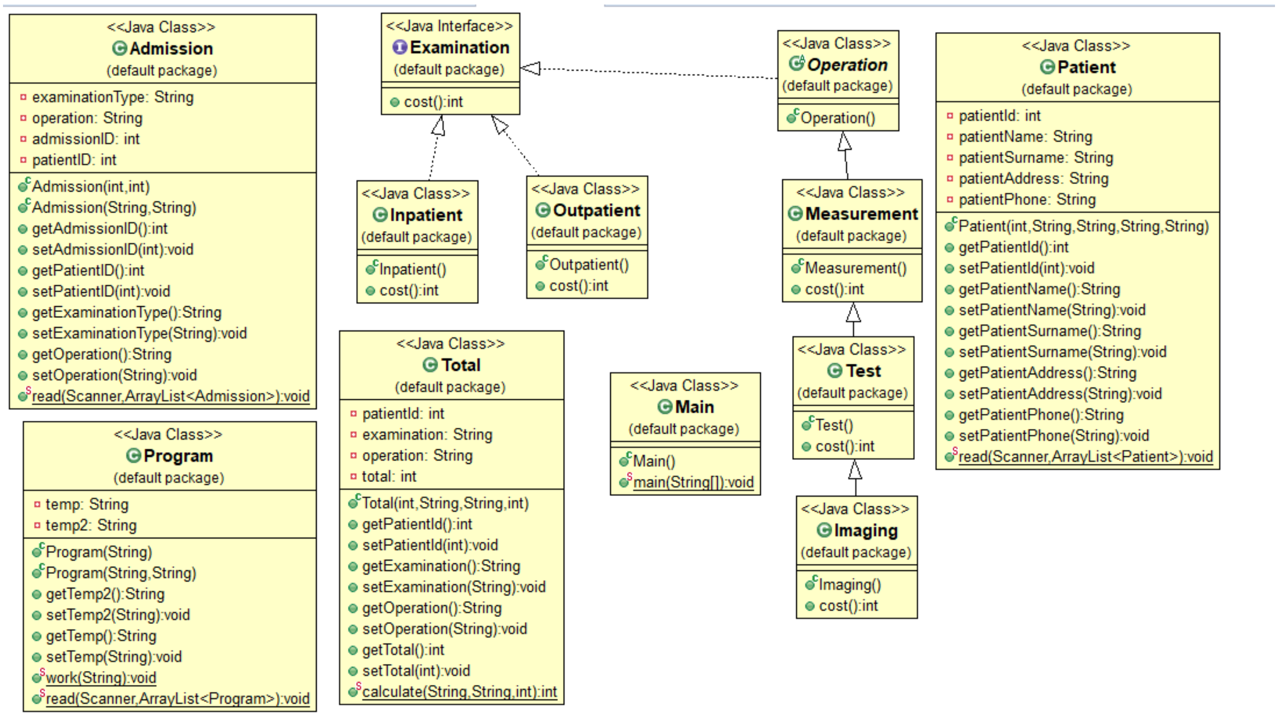
Problem

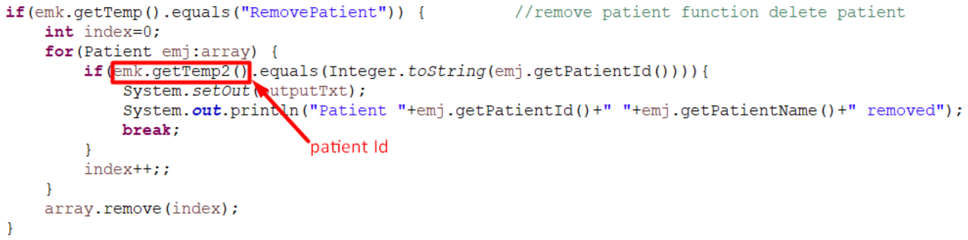
In this assignment what we need hospital system and we need to solve this problem with inharitance and polymorphsim methods.We are expected to our program work with data access object pattern and design pattern.

Uml Class Diagram



Solution

I took patient Id for reference. I used it for input function like remove patient.



```
if(emk.getTemp().equals("RemovePatient")) {          //remove patient function delete patient
    int index=0;
    for(Patient emj:array) {
        if(emk.getTemp2().equals(Integer.toString(emj.getPatientId()))){
            System.setOut(outputTxt);
            System.out.println("Patient "+emj.getPatientId()+" "+emj.getPatientName()+" removed");
            break;
        }
        index++;;
    }
    array.remove(index);
}
```

1.Admission class

This class is read and hold admission.txt elements.

2.Patient class

This class just read and hold patient.txt elements.

3.Examination class

This class is my interface class.

4.Operation class

This class is my abstract class.

5.Imaging class

This class is return imaging fee.

6.Test class

This class is return test fee.

7.Measurement class

This class is return measurement fee.

8.Outpatient class

This class is return outpatient fee.

9.Inpatient class

This class is return inpatient fee.

10.Main class

This class is just run work function in Program class.

11.Total class

This class is calculate total fee.

12.Program class

This class is read input file, run fee function, list patient, print text and run other function what we need.