

Hacettepe University

Computer Science and Engineering Department

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Problem

Develop a hospital management system which uses 2 txt files including patient information and information about their admissions.

Algorithm

In my algorithm I used Patient, Examination and Operation classes to store information. To be able to create operation objects in run time I used a **decorator pattern** to create them. Decorator pattern works by creating a plain operation object at first which includes nothing, then by using that plain operation object and the operation string it creates the final operation object. Examination objects on the other hand can only be created with an already existing Operation object.

In my code I used 2 **data access objects** to keep everything organized and easily accessible. They are called PatientDAO and AdmissionDAO. They are responsible to store and use the information from their respective txt files. Also there is a class named OutputManager which reads the input.txt and uses both PatientDAO and AdmissionDAO to create an output file.

Finally there are 2 classes for reading the files and writing to files.

