

Hacettepe University
Department of Computer Science

Report of Assignment 3

BBM104

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21985164

Tuana Çetinkaya

Hospital Management System

1. Problem Definition

We need a hospital management system which needs to be dynamic in registering and organizing patients. Hospital needs to remove add and bill the patients more efficiently.

2. Solution Model

This program provides a dynamic model called Decorator Design Pattern which allow us to build any combination of our examinations. Also hospital database is now an abstract structure that we could change by implementing our Data Access Object interfaces.

3. Steps of Algorithms

Program uses two DAO interfaces for patient database and admission database. That provides us to switch the source of both independent from each other. Hospital class manage the connection between commands taken by the input file and arrange the patient DAO and admission DAO according to those commands. Also admission interfaces uses the IExamination class which implements the Decorator Design Pattern to function. Then it creates an output file and adds all the tasks and requests as it does them so when everything is done system could update the database files and complete its task.

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