



HACETTEPE UNIVERSITY

BBM104 – ASSIGNMENT 3

REPORT

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COMPUTER ENGINEERING

REPORT

1) Problem Definition

In this assignment, it is expected to read and save the information such as patient name, address, telephone, registration, examination information from the given txt files, and when necessary, certain operations (adding patients, adding records, etc.) are expected to be returned as output.

2) Algorithms

In this assignment, we used methods such as DAO (Data Access Object), Decorator Pattern, inheritance, polymorphism. Thanks to these methods, instead of creating separate functions for each class, we wrote the desired functions once and applied them to each class and object.

In my main class, I have a main function where I print some output and call the necessary functions according to the commands given from the files I read.

I have an Execute class where I suppress the total amount, add exams, print the patient list, add patients, and read files.

I also have classes where I keep special features for these classes such as Admission, Test, Imaging, DoctorVisit, Measurement, Patient, Outpatient and Inpatient. There are only override functions and attributes in these classes, and I do not do any other operation.

Finally, I have two interfaces for PatientDAO and Examination. In these interfaces, we can only think that there are prototypes of functions.

