

Object Analysis and Design (OAD)
Lab session (TP) 01

Section 1. Class Diagram

1. **Hospital Management System:**

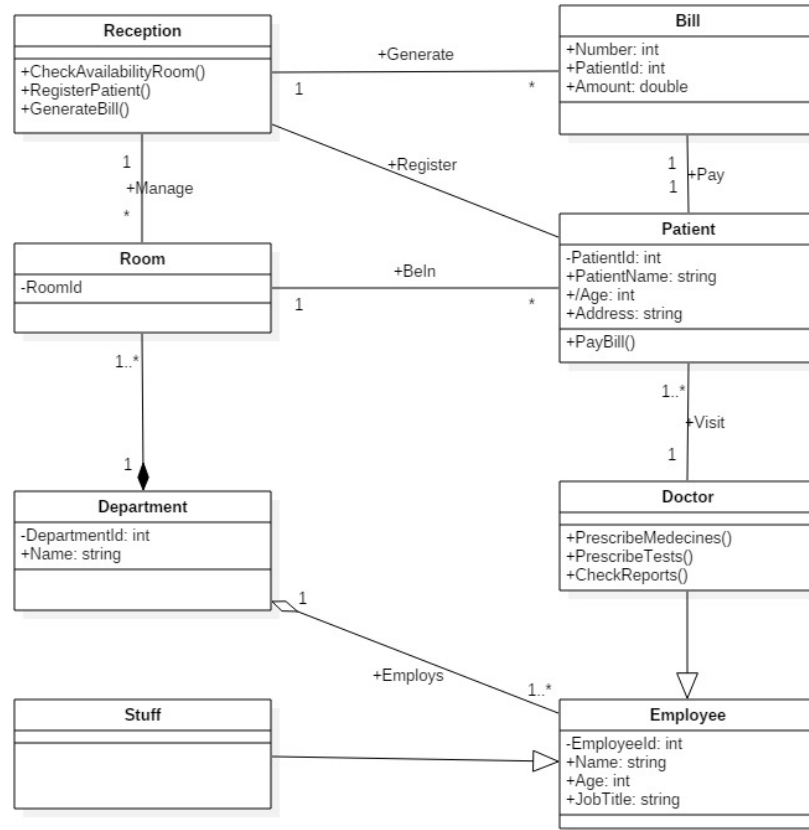
When a patient arrives at a hospital, he presents himself to reception. The reception registers his information (Id, Name, Age, Address). The patient then visits a doctor. The doctor prescribes medicines, tests and check for reports. A hospital consists of different departments, a doctor is affected to one department at a time, and a department could have many doctors. In addition to doctors, the department has stuff employees. Each employee (Doctor/Stuff) has the following information (Name, Age, Address, Job-title). A department consists of different rooms, a patient is oriented to one room under the responsibility of reception. When the visit ends, the patient pays the bill generated by the reception. The bill contains as information, a number, the id of the client and the amount to pay.

Draw a basic class diagram representing all the classes with their attributes and functions.

2. **University:**

Propose a class diagram for the following description:

The university (Name) consists of many departments. Each department (Name) has a number of teachers. Each teacher (Name, Age, Address, Grade) is responsible for a number of courses (Max is 3). The course (Code, Name, Time) is given in a classroom (Name). The student(RegistrationNumber, Name, Age, Address) can attend a number of courses. The set of courses for such a given section is called a Program of Courses (Section). The department is responsible for creating programs and affecting courses to teachers. The maximum number of courses by a program is 10 courses.



Answers

Section 1. Class Diagram

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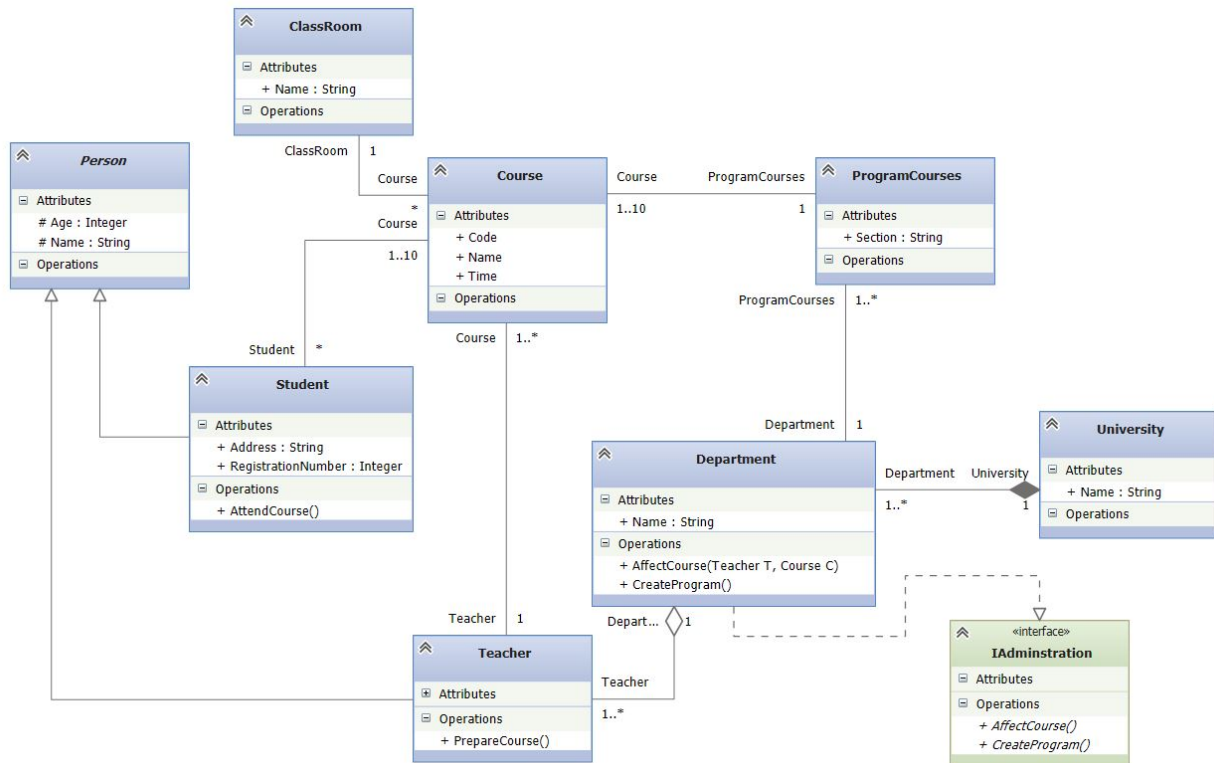
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