

Object Oriented Programming

Report Lab5:

The aim of this seminar was to design a complete system application to manage a hospital. Its staff and users were divided into doctors, administration and patients. The hospital had rooms and in each room there were several beds. Each doctor had an identifier, name, specialty list. A doctor could work in several hospitals. The administrative staff had an identifier, name and only could work in a hospital. Patients were assigned an identifier and their date of admission. Patients could be of two types, residents or visitors. Resident patients were assigned a bed in the hospital where they were currently admitted. Each patient could receive visits / interventions from several doctors. For each visit the date and a summary text field were saved.

It must be noted that this Lab was way more easy to approach and to develop than the previous ones, for which we are thankful. It also posed its own challenges but this time we were able to overcome them. Probably owing to the fact that we already practiced in extent for the incoming exams.

first thing is first, it must be stated that we found a bit of trouble with toString() function since it contained directly in the function the return values, causing errors at runtime. The reason of this errors was that the returned string might not be initialized, Given this, we solved it by creating a variable of type String inside the function. Then we initialized it to null so that then we could add the content to return until then.

Later on we had also some difficulties with the functions relative to the assignation of beds and rooms. We didn't quite remember to assign the resident to its respective bed and room before returning which bed that would be in the AssignBed function from Administrator.

All in all this was quite straight forward. we believe to have been able to solve the problems at a quite positive rate. One more thing that must be stated as well is that: On behalf of the team members we wish for you to have Happy holidays and a merry christmas.