

Advanced Programming

Assignment 1

Due: Monday, 10th February, 2020 at 11:59 PM

You have to develop a hospital management system (in JAVA using OOP Concepts) for 'Faisal Hospital.' The hospital constitutes of **multiple wards**, namely Children's Ward, Orthopedic Ward, and Surgical Ward. The wards are managed by different people, collectively called **Staff**. All members of the staff have a joining date and education. The staff can be medical or technical. Technicians and scrub techs are a part of the technical staff. Doctor and Nurses come under the medical staff. Each doctor has a docID and specialty. The medical staff also deals with patients and saves patient ids in their records. A **patient** can visit the doctor only once **in a single day**. If the patient exceeds this count, the system should output '<Patient Name> with <Patient ID> has already visited today.' Otherwise, the program should output '<Patient Name> with <Patient ID> allowed.' The hospital also maintains a record of each **person to ever have entered** the hospital. It keeps a record of the person's name, birthdate and gender.

Construct a UML diagram for this system (you can use Star UML) and then code it in JAVA (use IntelliJ or NetBeans).

IMPORTANT NOTE: The storage for records should be local to application scope. You can either hard code it or provide input functionality. You **DO NOT** need to create any file or database to maintain records.

SUBMISSION PROCESS STEPS: I have provided links for those who are new to GitHub.

- Create a GitHub repository for the assignment. Make sure it is private!
(<https://www.youtube.com/watch?v=hsHVGit53sg>),
- Add **meharfatimakhan** as a collaborator for the repository
(<https://www.youtube.com/watch?v=sOciDss1EEY>),
- Upload complete code in repository (<https://www.youtube.com/watch?v=nHk53YnrE5k>),
- **Submit** repository link **through the form below:**
https://docs.google.com/forms/d/e/1FAIpQLSd3ImhJQSajBeyV_06YKSIllo-X31e0EL07NQrteSNUL5H-PhQ/viewform

Good Luck!