Elekta Coding Challenge

Build a Patient Registration Service

Implement a small application which simulates the capture and management of patient registration information. Patient registration information includes the following:

* Patient Demographics: a patient has a name, unique medical record number, age, gender, and a set of contacts.
* Admitting Diagnosis: a patient can be admitted with a breast, lung, prostate, or unspecified cancer diagnosis.
* Attending Physician: breast and lung cancer patients are assigned to Dr. Susan Jones; all other patients are assigned to Dr. Ben Smith.
* Department: patients seeing Dr. Susan Jones are assigned to department J; all other patients are assigned to department S.

Functional Requirements

New patients are registered daily within the cancer clinic. Existing patient information can be modified by clinical staff, but once a patient has been assigned an admitting diagnosis, they cannot be removed from the system.