

FR. CONCEICAO RODRIGUES
COLLEGE OF ENGINEERING

COMPUTER DEPARTMENT

SEM – IV

Database Management System
PROJECT

Project Name:-
Hospital Management System

STUDENTS INVOLVED:-

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AIM OF THE PROJECT

To Develop a Hospital Management System which is efficient in data processing and to minimize need for human intervention. Hospital Management System is an organized computerized system designed and programmed to deal with day to day operations and management of the hospital activities. The program can look after inpatients, outpatients, records, database treatments, status illness, billings in the pharmacy and labs. It also maintains hospital information such as ward id, doctors in charge and department administering.

OBJECTIVE

- 1) Define hospital
- 2) Recording information about the Patients that come.
- 3) Generating bills.
- 4) Recording information related to diagnosis given to Patients.
- 5) Keeping record of the Immunization provided to children/patients.
- 6) Keeping information about various diseases and medicines available to cure them.

These are the various jobs that need to be done in a Hospital by the operational staff and Doctors. All these works are done on papers.

PROBLEM STATEMENT

The major problem for the patient nowadays to get report after consultation, many hospital managing reports in their system but it's not available to the patient when he / she is outside. In this project we are going to provide the extra facility to store the report in the database and make available from anywhere in the world.

FUNCTIONALITY

Hospital Management System is a software product suite designed to improve the quality and management of hospital management in the areas of clinical process analysis and activity-based costing. Hospital Management System enables you to develop your organization and improve its effectiveness and quality of work. Managing the key processes efficiently is critical to the success of the hospital helps you manage your processes

Hospital Management System is powerful, flexible, and easy to use and is designed and developed to deliver real conceivable benefits to hospitals.

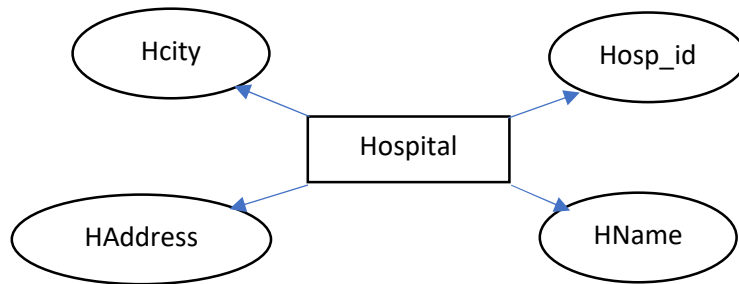
FRONT END SOFTWARE

For the front end our project will be using PyQt5 software. PyQt5 is a comprehensive set of Python bindings for Qt v5. It is implemented as more than 35 extension modules. It comes with QTDesigner and cross platform support.

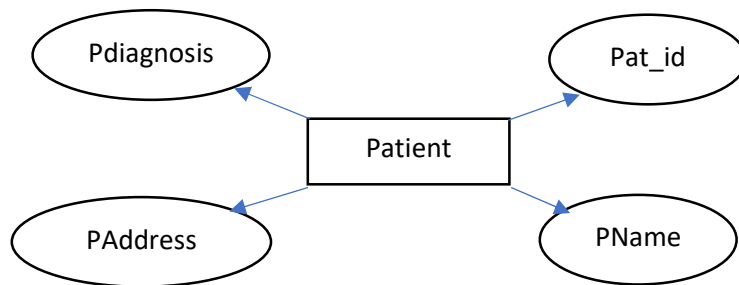
BACK-END SOFTWARE

The back-end software for managing the database of our project shall be MySQL. The basic Entities and attributes for the project are given below.

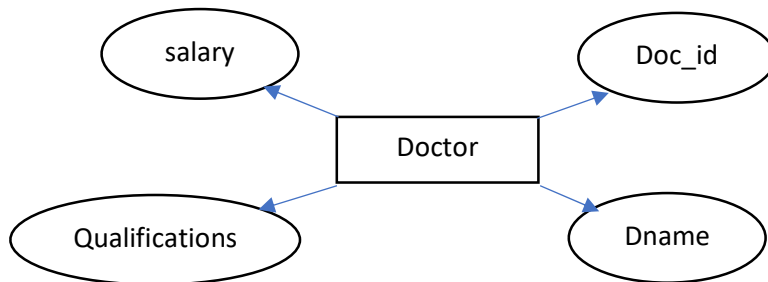
1) Hospital (Hosp_id, Hname, Haddress, Hcity)



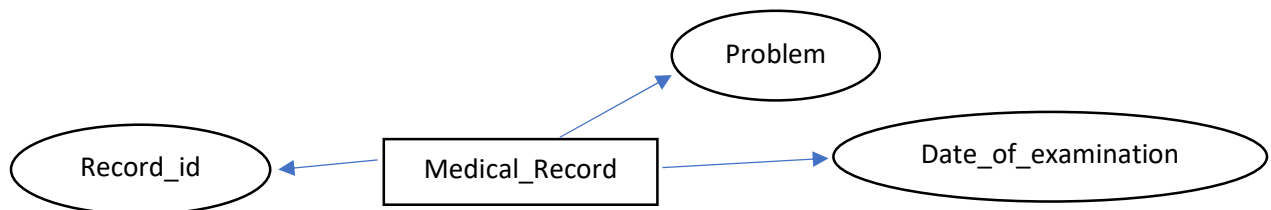
2) Patient (Pat_id, Pname, Pdiagnosis, paddress)



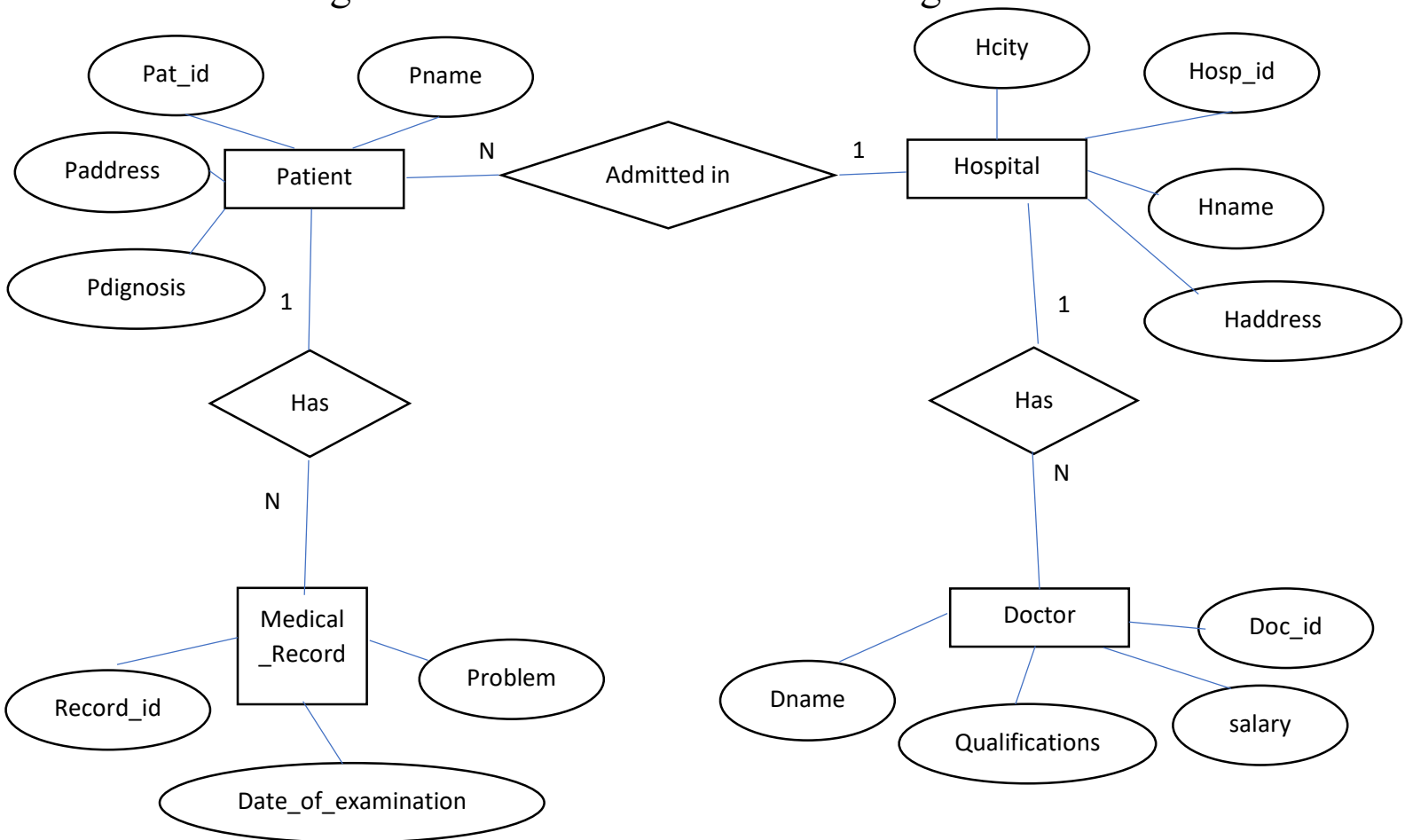
3) Doctor (Doc_id, Dname, Qualifications, salary)



4) Medical_Record (Record_id, Date_of_examination, Problem)



Combining these entities to construct ER diagram



*This the basic model for now. More entities shall be added as per requirements during later stages of development.

HARDWARE REQUIREMENTS:

- 2GB RAM OR MORE
- AMD SEMPTON PROCESSOR OR ABOVE

SOFTWARE REQUIREMENTS:

- Python 3.8 or Above
- PyQt5 for GUI.
- MySQL FOR DATABASE