**REPORT PROJECT**  
Project Name: Hospital Management

# PROPOSE

## Scope:

* **Author:** Manage and query doctors, diseases, and patients information.
* **Patients:** Guarantee the order of patients corresponding to disease’s priority.
* **Lobby:** Allow registering patient information and transfering them to reception.
* **Reception:** Allow editting patient information and transfering them to doctor’s rooms ( priority will be given to the doctor's empty slot).
* **Doctor’s Room:** Display doctor and patients information, and empty slots remain. Order of medical examination: First In First Out.

## Stack:

The project will use the following technologies:

* **NestJS:** a framework for building efficient, scalable Node.js server-side applications.
* **GraphQL:** a query language for APIs and a runtime for fulfilling those queries with your existing data.
* **MongoDB:** a document database designed for ease of application development and scaling.
* **Mongoose:** is a object modeling tool for MongoDB. Mongoose provides a straight-forward, schema-based solution to model your application data.
* **Socket.IO:** a library that enables low-latency, bidirectional and event-based communication between a client and a server.
* **EJS:** is a simple templating language that allow generating HTML markup with plain JavaScript.

## Layer:

* **Presentation Layer:**
* **Application Layer & Data Access Layer:**
* **Database Layer:**
  + **Database:** Lưu trữ dữ liệu của web
* **External Services Layer:**
* **Utility Layer:**

## Schema:

A diagram of a string

Description automatically generated