

HOSPITAL APPOINTMENT SYSTEM

Team Members

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Definition

The main goal of the application is to create a appointment system for the patients who apply to hospitals in regard to their medical needs. Application provides the central substructure and the interface, required to assist personnel of healthcare services and the patients who request the service to use their time and energy more efficiently, reduce the cost and the duration during the process of healthcare service, lower the queues of patients, access identity information of patients and the past healthcare services taken by patients at any time.

How the Application Works?

In the application, people who request a healthcare service, makes an online appointment or request an appointment on phone through operators. The application, due to being a project/assignment and the time constraints will cover only the appointments requested through an operator.

The operator will decide the appropriate department for the patient and their complaints, create an appointment for a convenient time with an convenient doctor who is assigned to the decided department and inform the patient in regard to their appointment. During the examination of the patient, the doctor will be able to see the patient's past inspections and enter the diagnoses and the prescription into the system.

Users of the Application

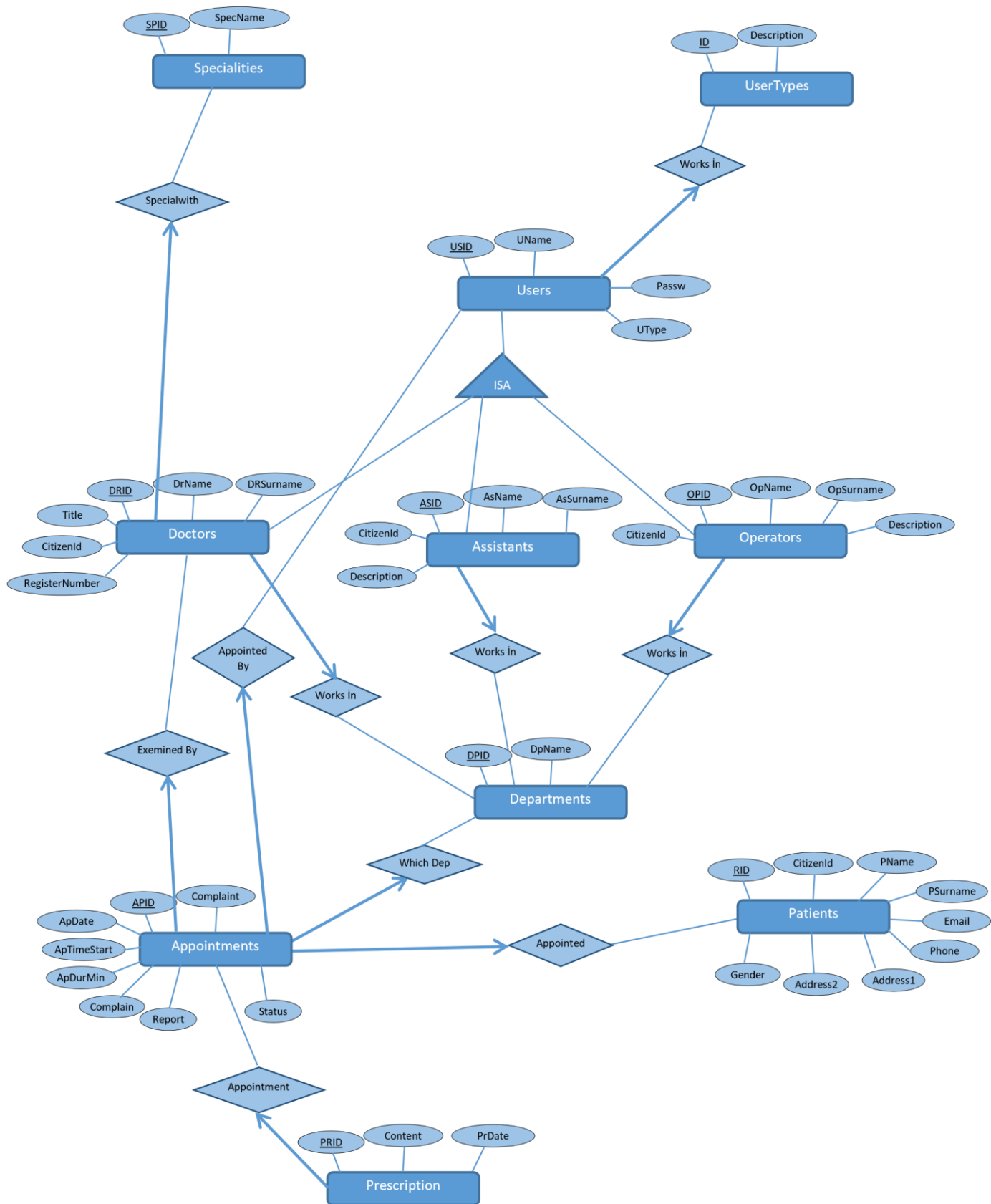
In the application, users are defined under four categories. These are Admin, Doctor, Assistant and Operator.

Admin..... : Defines the Doctors, Assistants and Operators that will be using the application.

Doctor..... : Can define an appointment, see patients' informations and can prescribe

Assistant : Can define an appointment and see patients' informations

Operator : Can define an appointment



Entities

Specialities (SPID, SpecName)

UserTypes (ID, Description);

Users (USID, Uname,Passw,Utype)

Departments (DPID, DpName)

Doctors (DRID, DrName, DrSurname, Title, CitizenId, RegisterNumber, Speciality, DepartmentId)

Asistants (ASID, AsName, AsSurname, Description, CitizenId, DepartmentId)

Operators (OPID, OpName, OpSurname, CitizenId, Description, DepartmentId)

Patients (RID, CitizenId, PName, PSurname, Email, Phone, Address1, Address2, Gender)

Appointments (APID, PatientID, ApDate, ApTimeStart, Complaint, ApDurMin, Report, Status, APPBY, DPID, DRID) Prescription (PRID, APID, PRDate, PRTIME, Content)

Tables

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create table tDrSpecialities (
    SPID int auto_increment,
    SpecName varchar(20) not null unique,
    primary key (SPID)
);
create table tUserType (
    ID int not null primary key,
    Description varchar(15)
); insert into tUserType (ID, Description) values
(0, 'Admin'); insert into tUserType (ID, Description) values
(1, 'Doctor'); insert into tUserType (ID, Description) values
(2, 'Assistant'); insert into tUserType (ID, Description)
values (3, 'Operator'); create table tUsers (
    USID int not null auto_increment,
    UName varchar(20) not null unique,
    Passw varchar(20) not null,
    UType int not null, /*Admin, Doctor, Assistant, Operator,
... internet, nurse,*/ primary key (USID),
foreign key (utype) references tUserType (ID)
);
create table tDepartments (
    DPID int not null auto_increment,
    DpName varchar(40) not null unique,
    primary key (DPID) ); create
table tDoctors (
    DRID int not null,
    DrName varchar(20) not null,
    DrSurname varchar(20) not null,
    Title varchar(20) not null,
    CitizenId varchar(15) unique,
    RegisterNumber varchar(20) not null,
    Speciality int not null,
    DepartmentId int not null,
    primary key (DRID),
    foreign key (DRID) references tUsers (USID),
    foreign key (Speciality) references
tDrSpecialities (SPID), foreign key (DepartmentId)
references tDepartments (DPID) ); create table tAsistants
(
    ASID int not null,
    AsName varchar(20),
    AsSurname varchar(20),
    Description varchar(100),
    CitizenId varchar(15) unique,
    DepartmentId int not null,
    primary key (ASID),
    foreign key (ASID) references
tUsers (USID) ); create table tOperators (
    OPID int not null,
    OpName varchar(20),
    OpSurname varchar(20),
    CitizenId varchar(15) unique,
    Description varchar(100),
    DepartmentId int not null,
    primary key (OPID),
    foreign key (OPID) references tUsers (USID), foreign
key (DepartmentId) references tDepartments (DPID) );

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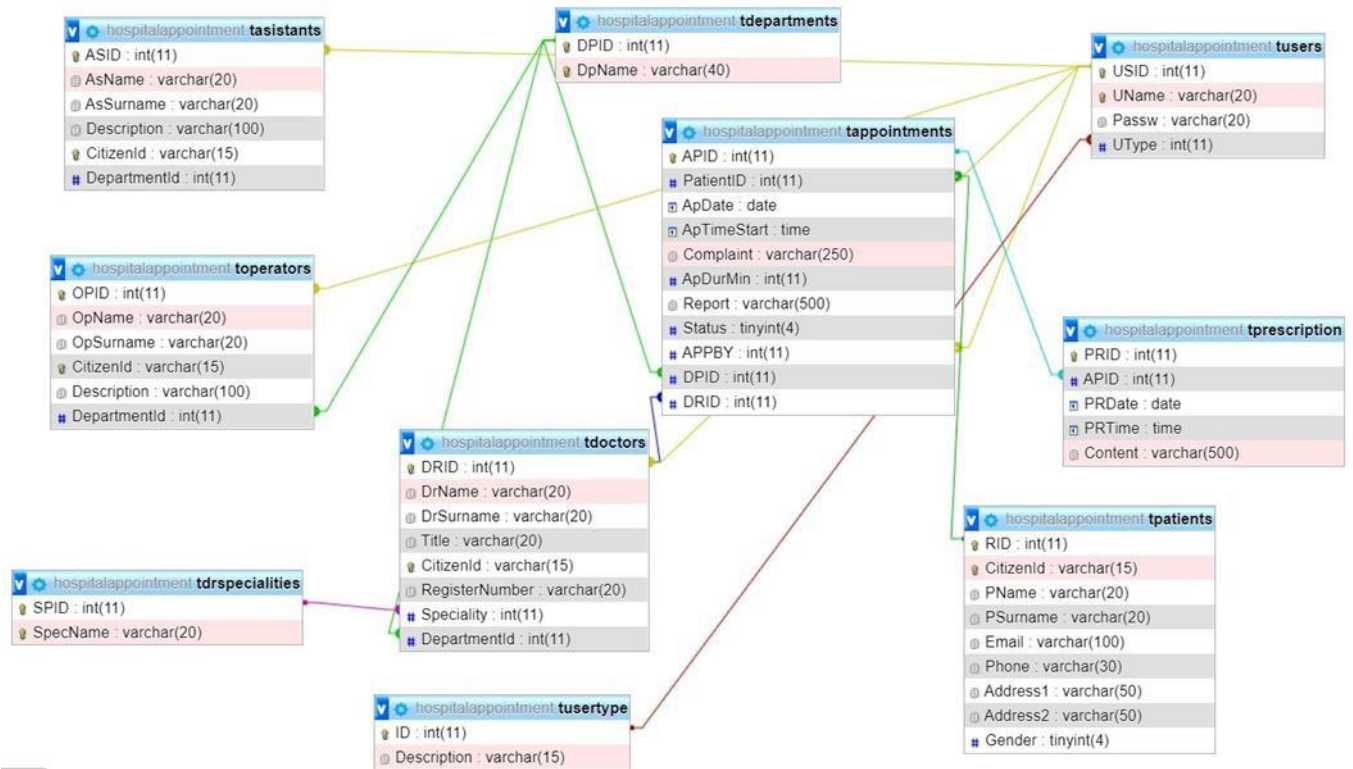
create table tPatients (
    RID int auto_increment not null,
    CitizenId varchar(15) not null unique,
    PName varchar(20) not null,
    PSurname varchar(20) not null,
    Email varchar(100) ,
    Phone varchar(30),
    Address1 varchar(50),
    Address2
varchar(50), Gender
tinyint not null,
primary key (RID) );

CREATE INDEX IND_Patients_CitizenId ON tPatients (CitizenId);
create table tAppointments (
    APID int auto_increment not null,
    PatientID int not null,
    ApDate date not null,
    ApTimeStart time not null,
    Complaint varchar(250),
    ApDurMin int default 5,
    Report varchar(500),
    Status tinyint,
    APPBY int not null,
    DPID int not null,
    DRID int not null,

    primary key (APID), foreign key (DPID)
references tDepartments (DPID), foreign key (DRID)
references tDoctors (DRID), foreign key (APPBY)
references tusers (USID)
); create table tPrescription
(
    PRID int auto_increment not null,
    APID int not null,
    PRDate date not null,
    PRTIME time not null,
    Content varchar(500),

    primary key (PRID),
    foreign key (APID) references tAppointments (APID)
);

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* The delivery date of the project was decided as 1 June 2020 upon the end of the academic spring education.
All information has been checked and uploaded to system.