



HOSPITAL PROJECT

ADVANCED PROGRAMMING
TECHNIQUE FINAL PROJECT

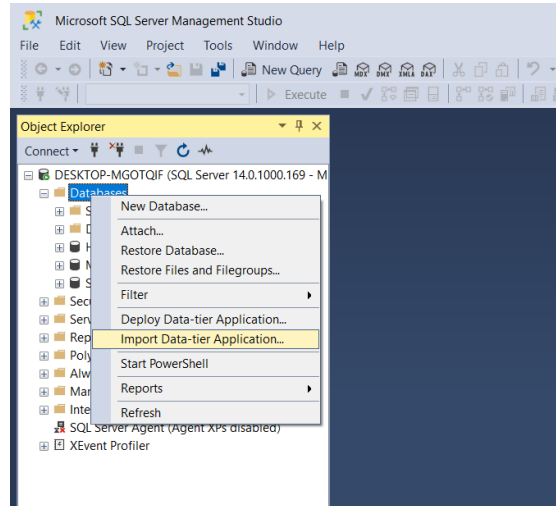
Hakan Kahraman
Özgün Sungar
Yiğitcan GÜLDAŞ

How to Run

In this project we used Microsoft SQL Server to create database.

You need to follow some steps to run correctly.

- Install Microsoft SQL Server and Microsoft SQL Server Management Studio (SSMS)
- Import the Hospital_Project.bacpac file to the Database.

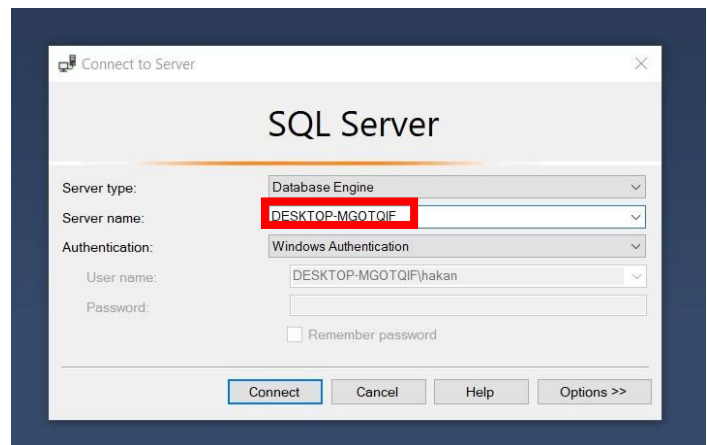
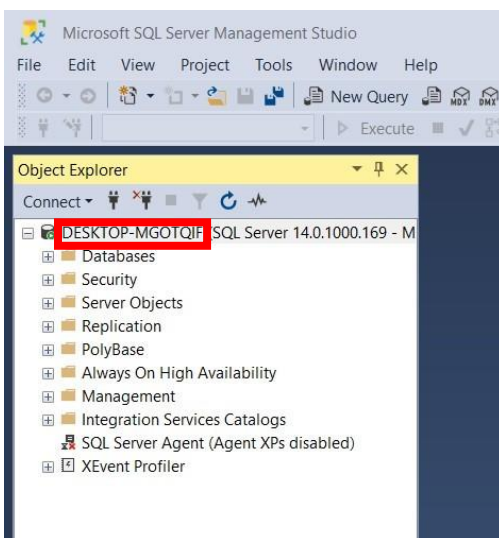


- To provide database connection string we have connection.txt file in Project_Hospital\Project_Hospital\bin\Debug\connection.txt
So, after You import bacpac file, You should change the 'Data Source' (highlighted part on the picture) in the connection.txt with Your 'Server Name'.
You can find Your server name while You are opening the SSMS or on the left side of SSMS.

Data Source in connection.txt:



Your Server Name:



- After those steps You can run the program correctly.

ABOUT PROJECT

It is proved that hospital patient care system is so important in this age. As you see, the world is getting more crowded. With it, diseases also started to increase. Due to the covid-19 outbreak that started about 1 year ago, serious increases were observed in hospital densities, and it continues to be observed. If hospital patient care systems would not exist, it would be hard to store the patient information, it would cause to apply wrong treatment method and patient care and controls would not be done so quickly Those systems are really life saver nowadays. So, we decided to make a hospital patient care system.

In this system, there will be 3 users: patient, secretary, and doctor. In our system, each user has its own login interface. After patient login the system, patient can see the last appointments and free appointment dates because program is connected to the database. Also, he/she can get an appointment, choose doctor, and doctor branch. Secretary can add doctor to the system, and he/she can create an appointment date if the doctor free and see all appointment dates. Doctor can see his/her appointment, patients and patients complains.

Features of Forms and Classes

sql_connection – This class allows us to reach database string. The database string is written in a txt file and this class reads that.

FrmMain – This is our main form. There are three buttons. These buttons open to FrmPatientLogIn, FrmSLogIn, FrmDoctorLogIn forms.

FrmPatientLogIn – This is login page for patient. If the information is correct, it enters the form FrmPatientDetail. If there is no such user, the user registers with Register linklabel and records.

FrmRegister – This form recods the patient to the system.

FrmPatientDetail – There are two datagridviews. First one shows the appointments of the patient. Second one shows the appointments that can be taken.

The patient first chooses a branch and a doctor to make an appointment. After making these selections, the patient can see the second datagridview and double click on the appointment which the patient wants to take. He sees that the Id part on the left is full and presses the Take an Appointment button. The situation checkbox of the appointment gets ticked. Tick indicates that the appointment is full. And taken appointment moves to the first datagridview and removes from second datagridview.

The Edit Info linklabel opens the FrmPEditInfo form.

FrmPEditInfo – The patient can update his informations from here.

FrmSLogIn – If the information is correct, it will enter the FrmSecretaryDetail form.

FrmSecretaryDetail – It is the secretary's page.

The secretary can create an announcement from the Create announcement section. The created announcements are saved in DB.

The Doctor Panel button redirects to the FrmDoctorPanel form.

Branch Panel button redirects to FrmBranchPanel form.

The Appointment List button opens the FrmAppointments form and shows the appointments.

There are two datagridviews. The first one shows branches and the second one shows the doctors below.

When the selection is made in the Doctors table, after entering the partially filled date and time in the appointment panel, the appointment is created with the Save button.

The Refresh Tables button is used to update the tables on the right when there is data change from the Doctor or Branch panel.

FrmDoctorPanel – From here the secretary views, adds, deletes, or updates the doctors.

FrmBranchPanel – From here the secretary views, adds, deletes, or updates the branches.

FrmAppointment – shows only appointments with datagridview.

FrmDoctorLogIn – If the information is correct, it redirects to the FrmDoctorDetail form.

FrmDoctorDetail – This is the page used by the doctor. The datagridview on the right displays the taken appointments from him. When he clicks on the appointment, the patient's complaint comes to the Complaint section.

The Edit Info button opens the FrmDEditInfo form.

The Announcements button opens the FrmAnnouncements form.

The LogOut button returns to the Main form.

FrmDEditInfo – The doctor can update his information.

FrmAnnoncements – It shows only the announcements which created by the secretary.

ABOUT DATABASE

A total of 6 tables were used and these tables are as follows: announcements, applications, branches, doctors, patients, secretaries.

Announcements have been added in order to diversify the program, they only have access from the secretary section. Information that needs to be notified to the hospital staff can be easily spread over this table.

The Applications table allows the patient to see his previous applications and future applications after logging in. Likewise, every doctor can see which patient he has an appointment with after logging in.

Branches, this table was used to diversify the branches of physicians, and at the same time, a simpler application creation process was provided thanks to the branch chosen while the patient was creating an appointment.

Doctors keep all the detailed information of the doctor name, surname, branch, TC, password

Patients, this table keeps information entered by the patient for registration from the patients' interface.

The secretaries keep the login information (TC, password) of the registered secretaries in order to enter and record their names.