# Session 2

### Duration: 3.5 hours

Run the script "*Session 2 start MSSQL*.sql" or "*Session 2 start MYSQL.sql*" to create a new database that contains all the necessary data for this session (do not use the database from the previous session).

In this session, you create a **new desktop application** that will allow clinic owners to manage clinics, appointments, and patients. Make sure to apply all required styles (color, font, and logo).

Important: create a new project for this session. Since that new project will not have a login form, assume that all actions in this session are performed by the user with UserID=2 (Robert Guardiol).

#### 2.1

Create a clinic management form that is first launched after starting the desktop application. Let the form show all the clinics owned by the registered user (UserID=2). The display should be tabular with columns:

* Name
* Short name
* Type of clinic (display the text Medical, Dental or Veterinary)
* Address
* Name of the city
* Name of the country

Initially, display all rows from the Clinic table. Allow the user to filter the rows he wants to see by selecting one of the options: All Clinics, Medical Only, Dental Only, and Veterinary Only.

Allow the user to choose whether he wants to sort the clinics by type of clinic or by the name of the city and whether to show them in descending or ascending order.

#### 2.2

Create a form to manage the services the clinic offers. Provide a meaningful way for a user to get from any form to this one and to go to any other form.

Show the user (UserID=2) the names of all his clinics in a drop-down menu. By selecting a clinic, display all the services that the clinic offers (the ServiceInClinic table contains the services that the clinic offers, and the Service table is a code book of all possible services). For each service, display its name and the defined price in EUR. Add CHANGE and DELETE buttons to each service, and place NEW SERVICE buttons above and below the list of services.

* Let a click on NEW SERVICE open a modal form that: in the drop-down menu offers a list of all services not yet assigned for that type of clinic and the proper control to enter the price. Enable saving of data to the database to the ServiceInClinic table (with validation and correct display of errors to the user). Enable cancelling by simply closing the form. If the data is successfully saved in the database, by closing the form it is necessary to refresh the displayed records.
* Let clicking on CHANGE open the same form with the same behavior as when adding a new record, only with the data of the selected record filled in, of which only the price can be changed.
* By clicking on the DELETE button, first check if there are appointments in the database for the selected service (Appointment table):
  + If there is at least one appointment, print the message to the user "The service cannot be deleted because there are *n* appointments for it", where *n* is the number of appointments in the database for that service.
  + If there are no appointments, delete the service from ServiceInClinic. After deletion, immediately refresh the displayed records.

#### 2.3

Create a form for managing examination appointments from the Appointment table. Provide a meaningful way for a user to get from any form to this one and to go to any other form.

Let the form display in the drop-down menu all the clinics owned by the user (UserID=2). By selecting one of the clinics, display a list of all appointments of the selected clinic that have AppointmentStatusId=1 (Created). Arrange the appointments sorted by DateStart. By clicking on an appointment, display the following in the modal window:

* Name and last name of the patient
* The start and end date of the desired appointment
* The name of the service he is asking for
* "ACCEPT" button that sets AppointmentStatusId=3 and writes the current date and time in StatusChangedDate
* "REJECT" button, which sets AppointmentStatusId=4 and writes the current date and time to StatusChangedDate.
* "CLOSE" button, which only closes the modal window. Also enable closing the modal window with the Escape key.

After acceptance or rejection, refresh the list of displayed appointments.

#### 2.4

Create a form for calendar display of appointments from the Appointment table. Provide a meaningful way for a user to get from any form to this one and to go to any other form.

Let the form display in the drop-down menu all the clinics owned by the user (UserID=2). By choosing one of the clinics, display all the days of the current month in any way you like. Then, next to each day, display all confirmed appointments (AppointmentStatusId=3) by displaying the patient's name and the start and end of the appointment. Enable display of previous and next month. An example of a possible display (the appointments are shown in blue and are too small to see the required text):

May 2023

Ana

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Ana

Ana

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Ana

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31