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Project Idea:

The Remote clinic system is software developed to simplify the communication process between the doctor and patients.IT is very useful for patients, because they can use you anywhere and anytime. Doctors can easily diagnose and deliver medication. It is important in the current situation.

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Abstract:

The world has become generally dependent on technology in their daily lives, and with modern times the medical sector is under increasing pressure to provide medical care on time and with high quality. With the spread of the new Corona virus, remote communication by means of technology has become indispensable. The purpose of this program is to provide natural care remotely by means of an electronic clinic in which the patient's symptoms are placed and diagnosed by the doctors.

Keywords:

Project management, project control, system.

Introduction:

This project will solve the problem of remote communication.

The clinic management system is based on SQL database and JAVA programming language.

The scope of this project includes the regular scheduling of patients and physician's data and presenting that data in an orderly fashion to the responsible (administration) of that clinic.

The benefit of this project is that the information paper (doctor - patient - treatment) will be replaced by digital information that is stored in the computer, where it is easier and more secure in accessing it, as the old system may cause data loss or errors in monitoring the information.

Project Management Member:

1-patient:

The patient can enter data such as recording a new statement by entering his personal data and the symptoms he feels based on which the doctor is diagnosed.

He can also inquire about the consultation that includes the next consultation date (if the doctor is supposed to examine it himself), diagnosis and treatment. He also has some options such as amending his personal data or canceling the registration (in the case if he is on a waiting list).

2-Doctor:

The patients registered with him are shown in a table where their personal information and symptoms they feel are shown and thus he can add a diagnosis and add a treatment to it.

He also has more options such as (the ability to search for the patient using his personal information - amendment to the consultation).

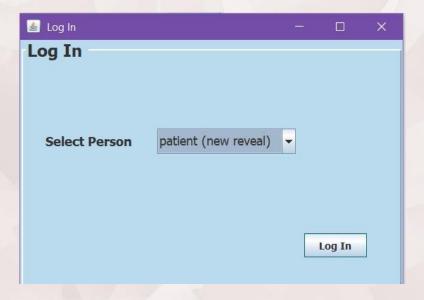
3-Administration:

He can do research on each patient, doctor, and treatment, each with his available information.

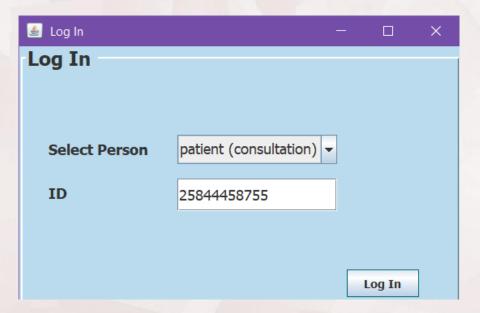
He can also add a new treatment or doctor to the clinic and supervise them, modify a doctor or treatment registered in the clinic, scan a doctor, or treat.

System Design:

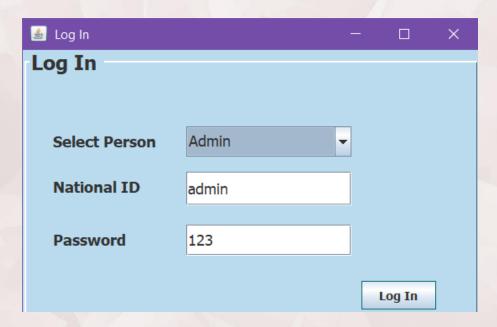
Figure 1: login page.



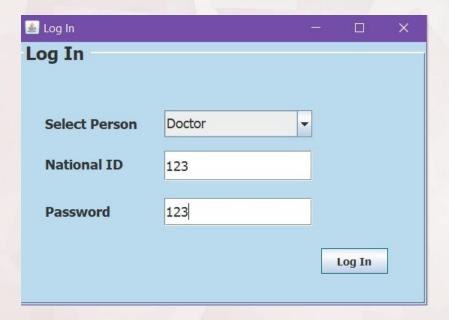
1) Registration page if he is a new patient.
(Just press the record button, and the new recording slap will open automatically)



- 2) Here, the patient's consultation is recorded by entering the national number, which in turn will be searched in the database if it is registered or not. (after that the consultation page appears with all the personal information, diagnosis, and treatment)
- * Note: If a doctor has not entered a diagnosis, he will inform him that he is on the waiting list.



3) Here, you will be logged in as an administration member, here the basic entrance for both the name and the password are (admin), (123)



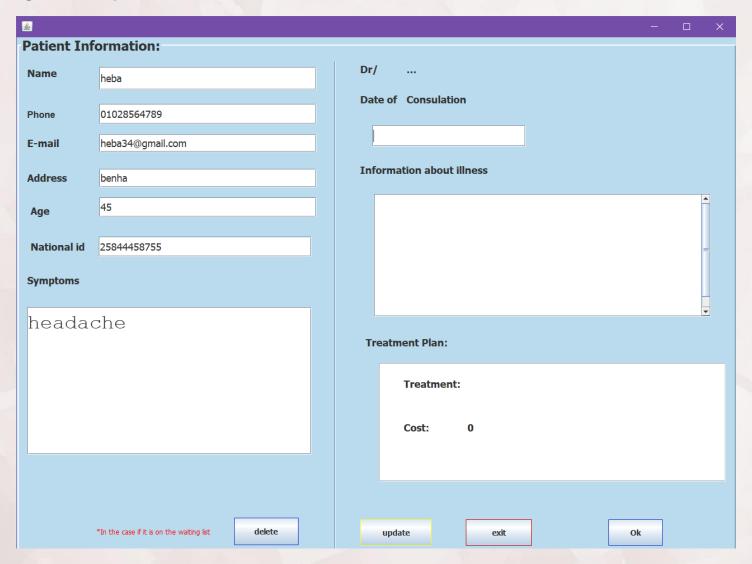
4) Then if he is a doctor, he must enter his national number and password (123). If this doctor is registered in this clinic, he will be transferred to the doctor's slap, but if he is not registered he will inform him that he is not available

Figure 2: New Reveal:



5) On the new patient registration page, the patient enters his personal information and the symptoms he feels, in addition to that he chooses which of the doctors he would like to treat with * If you forget to enter any of the existing data, a message will appear to him that the data has not been completely entered *

figure 3: The patient consulted:

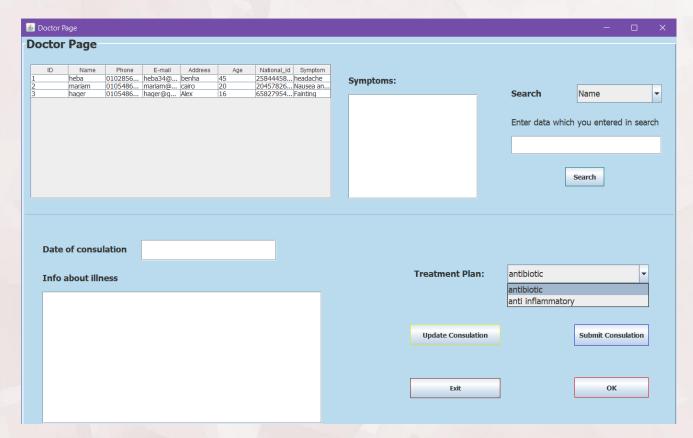


6) Here is the patient consultation page, where he displays all his personal information, and if he is free to amend his information.

If he has completed the waiting period and has been diagnosed and treated by the doctor, it will also appear in the information on the page.

He also has the freedom to delete the registration, but only if it is on the waiting list. If not, then this option is not authorized for him.

Figure 4: Doctor page:



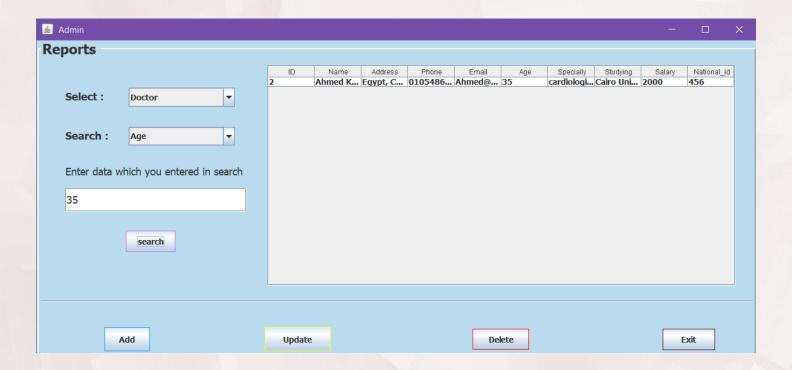
7) Doctor's page

A table appears in which the doctor's patients are automatic, while the page starts where all the patient's information is available and while choosing one of these patients the symptoms appear in a special section to clarify the symptoms more for the doctor and also if this patient had a record of him before that diagnosis and treatment, then they also appear in the consultation section.

Another option available to the doctor is that he can perform a search for a patient by using the recorded information and then when the information appears in the table.

There are two options for diagnosing a doctor, and they are as follows: Add diagnosis and treatment for the first time (new patient) Or modify the diagnosis, and this is if he is a patient who has been previously diagnosed.

Figure 5: Admin:



8) Admin Page:

He can search for each of the following (doctor - patient - treatment) each of them with his available information and according to the entry information appears in the table assigned to him (* for example in this form the search for a doctor appears with his knowledge of his age, so the doctor appears that corresponds to the age entered)

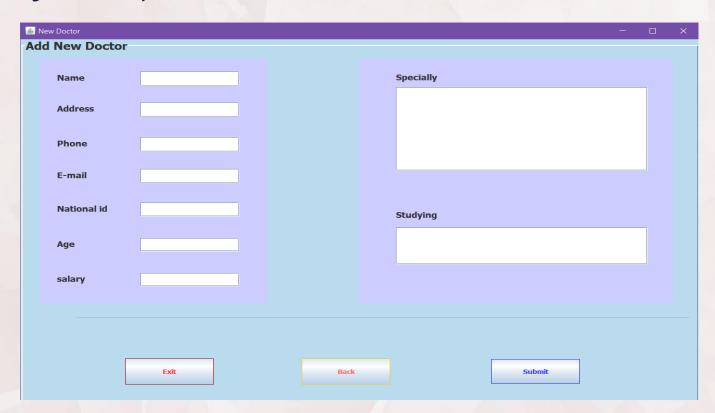
It has many options:

- 1- Adding a new doctor or a new treatment to the clinic, either adding a new patient, this is not authorized (* and that is based on the selection of the chosen member to add him)
- 2- A doctor or treatment is modified (that is based on his choice of a doctor or a specific treatment from the schedule)

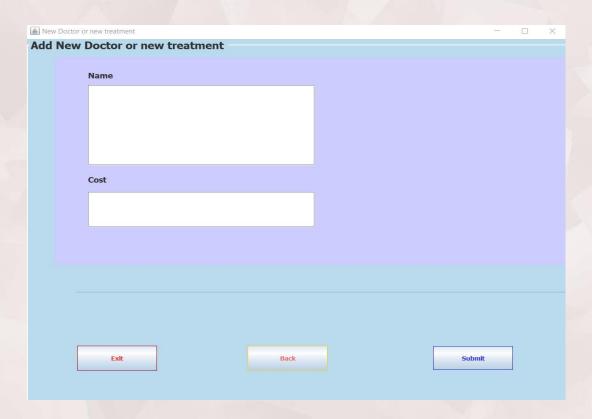
As for modifying a patient, that is also not authorized for him.

- 3- A doctor or treatment examiner (also that with water, to choose an element from the table)
- * Patient scan is not activated.

Figure 6: Admin process:



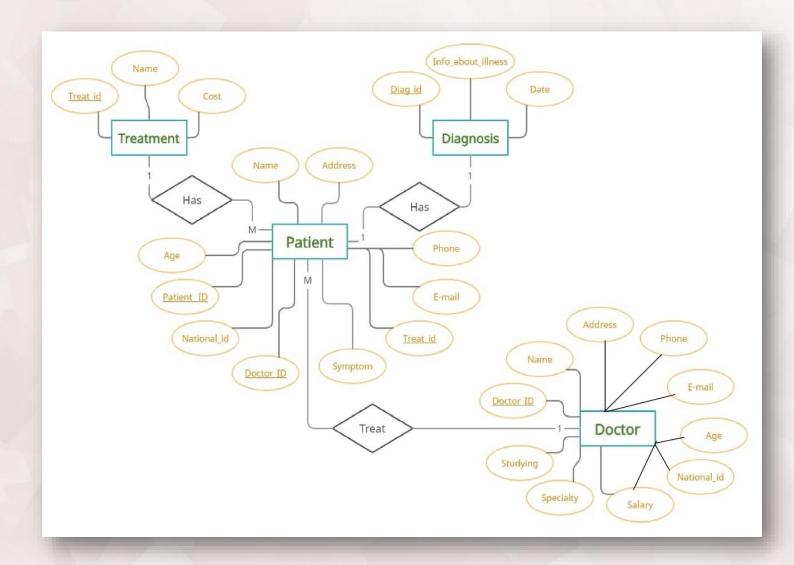
9) This page will appear if you choose to add a new doctor or update.



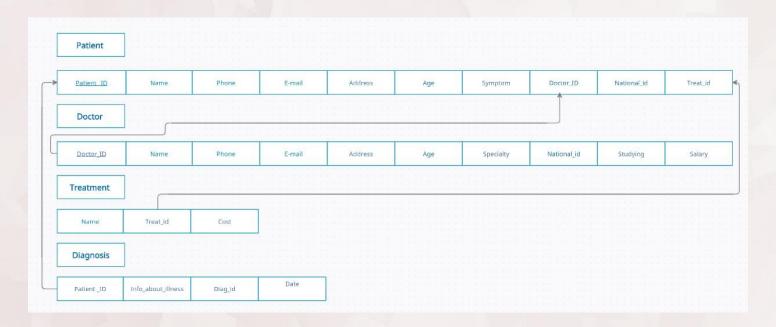
10) And This page will appear if you choose to add a new treatment or update it.

Database:

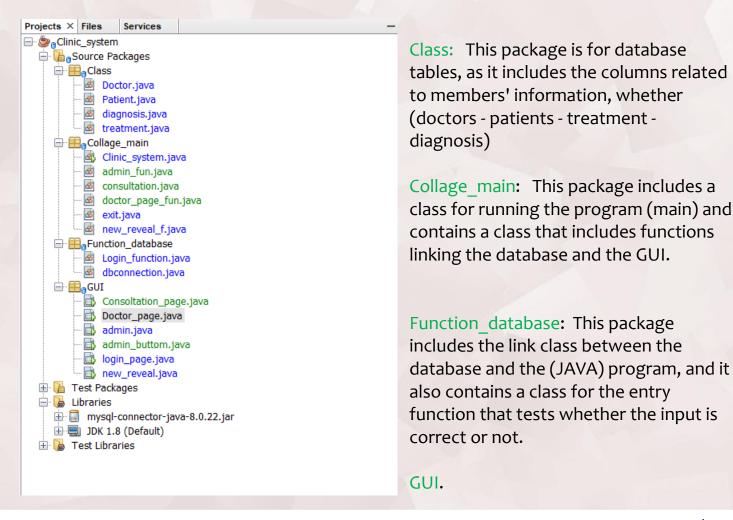
1- EER Diagram:



2- Mapping:



Methods (Code):



SQL code used:

INSERT INTO

```
Syntax: INSERT INTO table_name (column1, column2, column3, ...) VALUES (value1, value2, value3, ...).
```

SELECT

```
Syntax:
SELECT column1, column2, ...
FROM table_name.
```

♦ I use this method to search in database:

Ex:

```
String SQL="SELECT 'id', 'Name', 'Address', 'Phone', 'E-mail', 'Age', 'Specialty', 'Studying', 'Salary', 'National_ID'
+"where " + ColName + " like '%"+keySearch+"%';";
```

In this (ex) I select date from database where item that the user select it From combo if like the word that the user input.

♦ SELECT INNER JION Syntax: SELECT column name () FROM table1 INNER JOIN table2 ON table1.column_name = table2.column_name.

EX:

```
("select doctor.name from doctor "
+ "inner join patient as p"
+ " on p.doctor_id = doctor.id where p.national_id ="+ patient_nid + ";");
```

PreparedStatement stm = conn.prepareStatement("select count(*) from clinic.doctor ;");

The COUNT () function returns how many rows in SQL table.

DELETE

Syntax: DELETE FROM table name WHERE condition;

UPDATE

Syntax:

UPDATE table name

SET column1 = value1, column2 = value2, ...

WHERE condition.

♦ UPDATE INNER JOIN

Syntax:

UPDATE tablename

INNER JOIN tablename

ON tablename.columnname = tablename.columnname

SET tablenmae.columnnmae = tablenmae.columnname;

```
PreparedStatement stmt = conn.prepareStatement("update diagnosis inner join patient " + "on diagnosis.`patient _id` = patient.`patient _id`\n" + "set diagnosis.date=? , diagnosis.info_about_illness=?, patient.treat_id = ?\n" + "where patient.`patient _id`='"+p.patient_id+"'");
```

Conclusion:

Ultimately, the clinic management system is a basic database-based system. It simplifies the work of management and employees by saving them time and effort, thus being able to do their work more efficiently.