**COMPUTER SCIENCE DEPARTMENT**

**OBJECT-ORIENTED PROGRAMMING**

**CAREER OF ENGINEERING IN TELECOMMUNICATIONS**

**GROUP WORKSHOP**

**TEAM 6: HEALTHY HEALTHY**

**NRC**

3370

**MEMBERS**

Mosquera Agila Kerly Estefania

Oña Tupiza Erick Fabricio

Pachacama Tipan Alexander Paul

Ponce Chuqui Camilo Alejandro

Quichimbo Simba Andrea Estefania

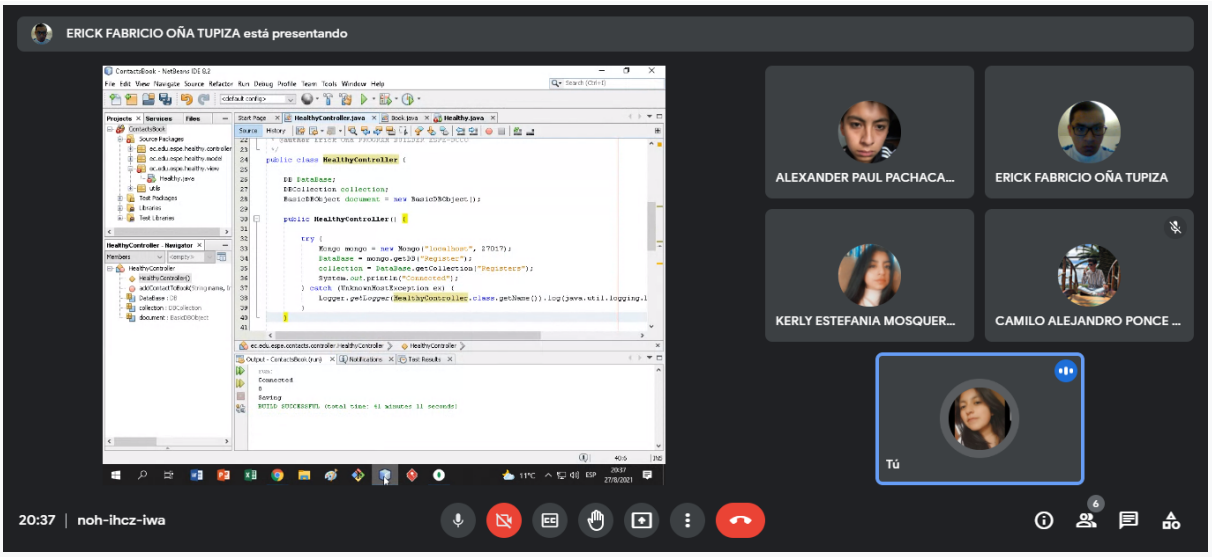
**Teacher's name:** Jorge Edison Lascano

Sangolquí – Ecuador

**HEALTHY HEALTHY**

**Team report**

We coordinate a meeting in google meet to give ideas and solve the problem the class diagram of the hospital application




**Objectives**

**Principal objectives:**

- Identifying the main characteristics of the MongoDB by creating a list of doctors to be able to show said mongo instead of saving the data in tables does it in BSON data structures very similar to JSON with a dynamic system**.**

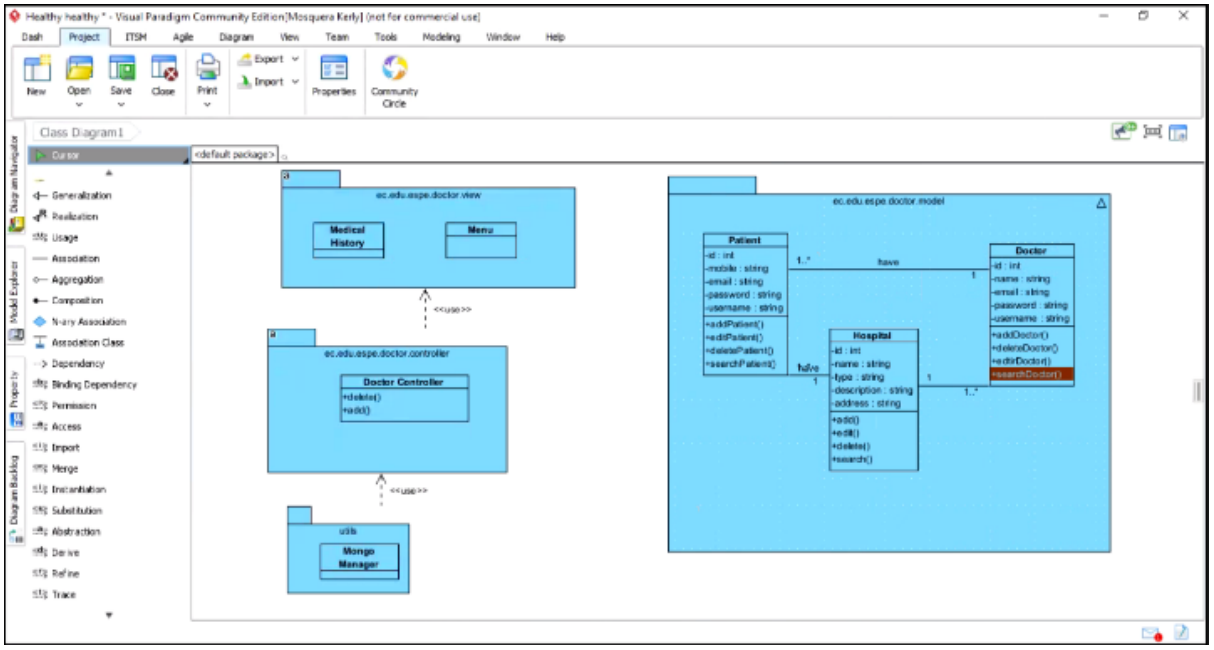
**Secondaries objectives**

- Carry out a practical application of mongodb within a real problem showing its applicability to daily life.
- Compare the most important differences from mongo db relational databases with similar ones
- Investigate in depth about how mongodb makes a connection in the system in order to be able to apply it in different problems

## Class diagram:

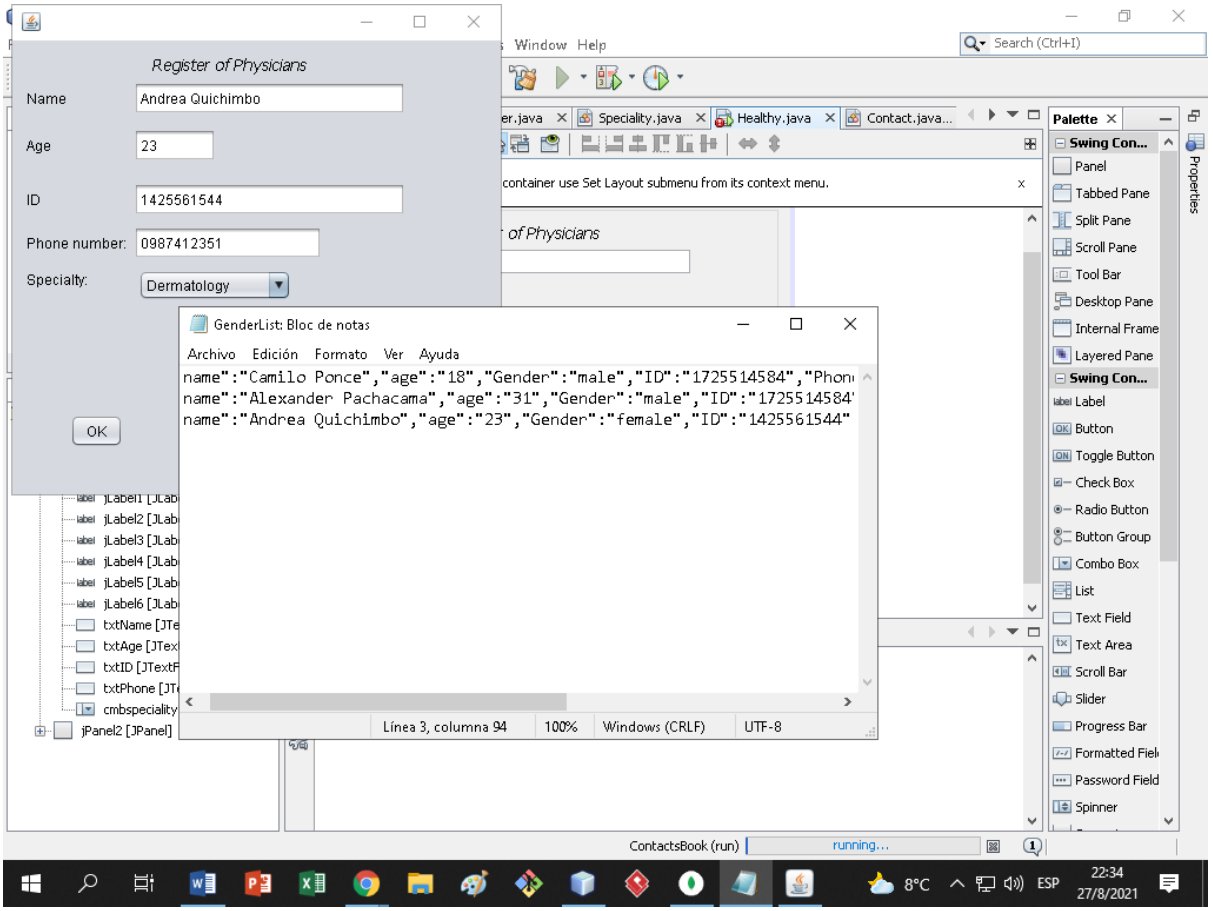
Graphical representation of a class, in which the name of the class, its attributes and methods are specified; It is basically one of the elements of a Class Diagram in which the relationships between the classes are also shown.

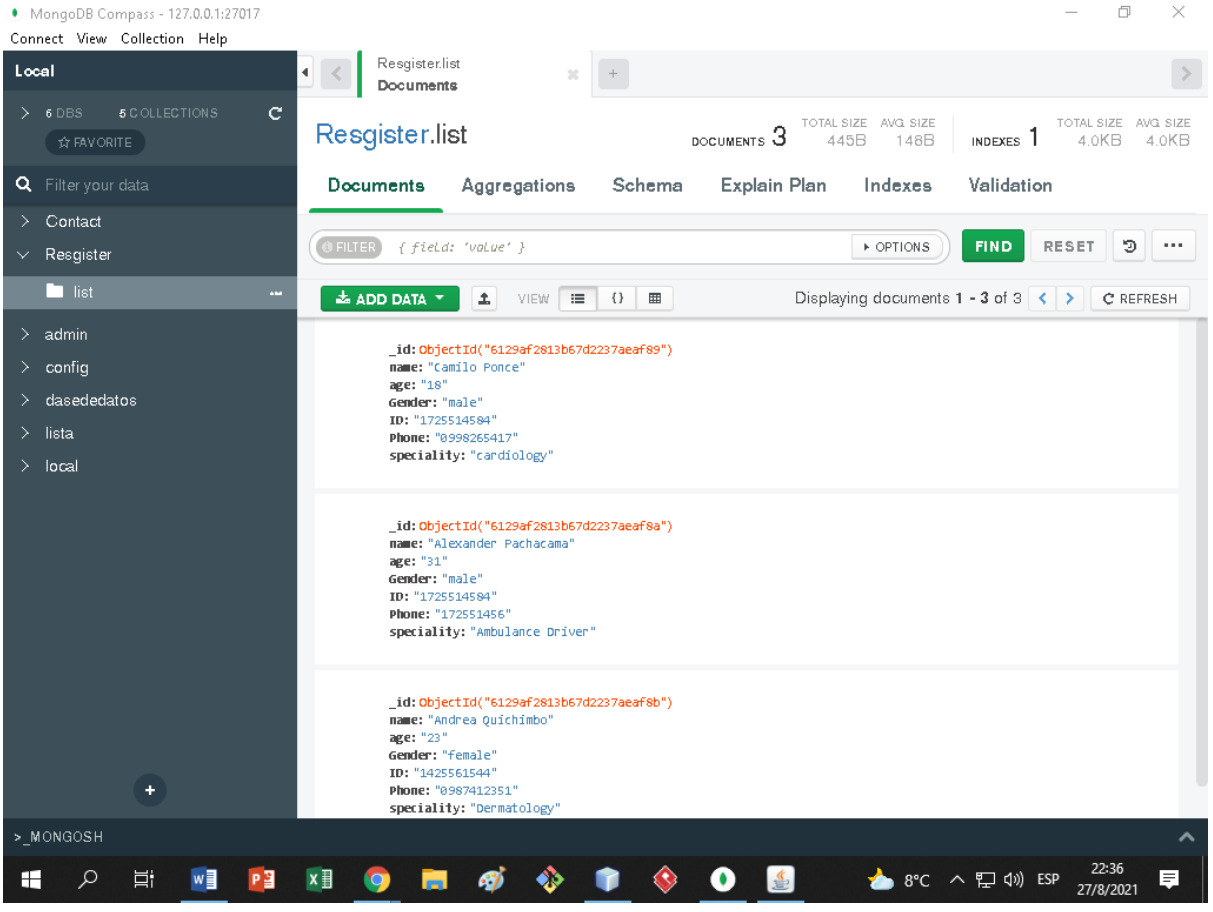
The hospital management system class diagram describes the structure of the classes of a single hospital management system, their attributes and operations (or methods), and the relationships between objects. The main classes of the hospital application system are Hospitals, Patients and Doctors.




## Database (json):

JavaScript Object Notation (JSON) is a standard text-based format for representing structured data in JavaScript object syntax. It is used to transmit data in web applications (for example: send some data from the server to the client, so this data can be displayed on web pages, or vice versa). You will be faced with it often, so this article gives you everything you need to know to work with JSON using JavaScript, including JSON parsing to access the data within it, and how to create JSON.


Register of Physicians
Name
Andrea Quichimbo
Age
23
ID
1425561544
Phone number:
0987412351
Specialty:
Dermatology
OK
GenderList: Bloc de notas
Archivo Edición Formato Ver Ayuda
name":"Camilo Ponce","age":"18","Gender":"male","ID":"1725514584","Phon
name":"Alexander Pachacama","age":"31","Gender":"male","ID":"1725514584
name":"Andrea Quichimbo","age":"23","Gender":"female","ID":"1425561544"
Línea 3, columna 94
100%
Windows (CRLF)
UTF-8
Palette
Swing Con...
Panel
Tabbed Pane
Split Pane
Scroll Pane
Tool Bar
Desktop Pane
Internal Frame
Layered Pane
Label
Button
Toggle Button
Check Box
Radio Button
Button Group
Combo Box
List
Text Field
Text Area
Scroll Bar
Slider
Progress Bar
Password Field
Spinner
ContactsBook (run)
running...
8°C
ESP
22:34
27/8/2021


MongoDB Compass - 127.0.0.1:27017
Connect View Collection Help
Local
6 DBS 5 COLLECTIONS
FAVORITE
Filter your data
Contact
Resgister
list
admin
config
dasededatos
lista
local
Resgister.list
Documents
Resgister.list
DOCUMENTS 3
TOTAL SIZE 445B
AVG. SIZE 148B
INDEXES 1
TOTAL SIZE 4.0KB
AVG. SIZE 4.0KB
Documents
Aggregations
Schema
Explain Plan
Indexes
Validation
FILTER { field: 'value' }
OPTIONS
FIND
RESET
ADD DATA
VIEW
Displaying documents 1 - 3 of 3
REFRESH
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name: "Camilo Ponce"
age: "18"
Gender: "male"
ID: "1725514584"
Phone: "0998265417"
speciality: "cardiology"
_id: ObjectId("6129af2813b67d2237aeaf8a")
name: "Alexander Pachacama"
age: "31"
Gender: "male"
ID: "1725514584"
Phone: "172551456"
speciality: "Ambulance Driver"
_id: ObjectId("6129af2813b67d2237aeaf8b")
name: "Andrea Quichimbo"
age: "23"
Gender: "female"
ID: "1425561544"
Phone: "0987412351"
speciality: "Dermatology"
>_MONGOSH
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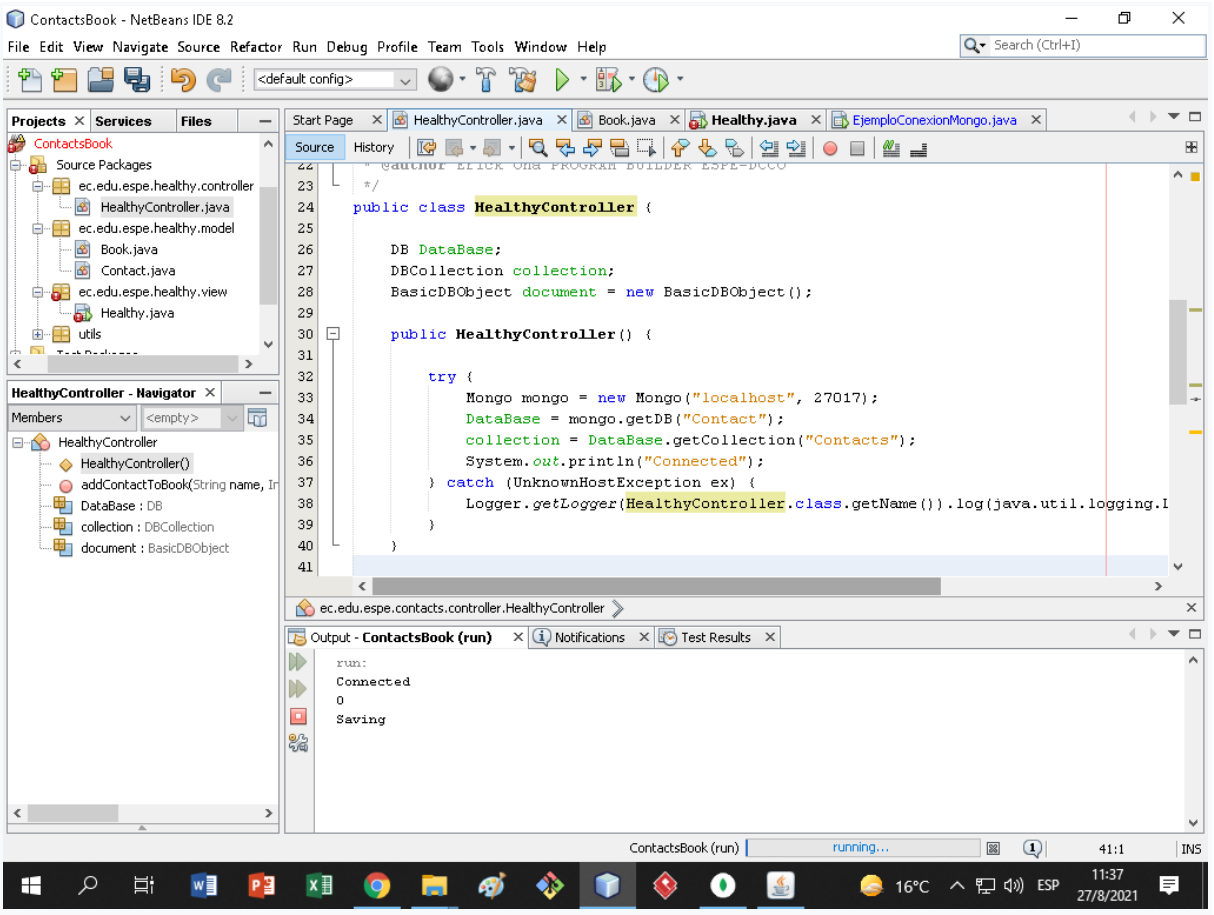
ESP
22:36
27/8/2021

# Code:

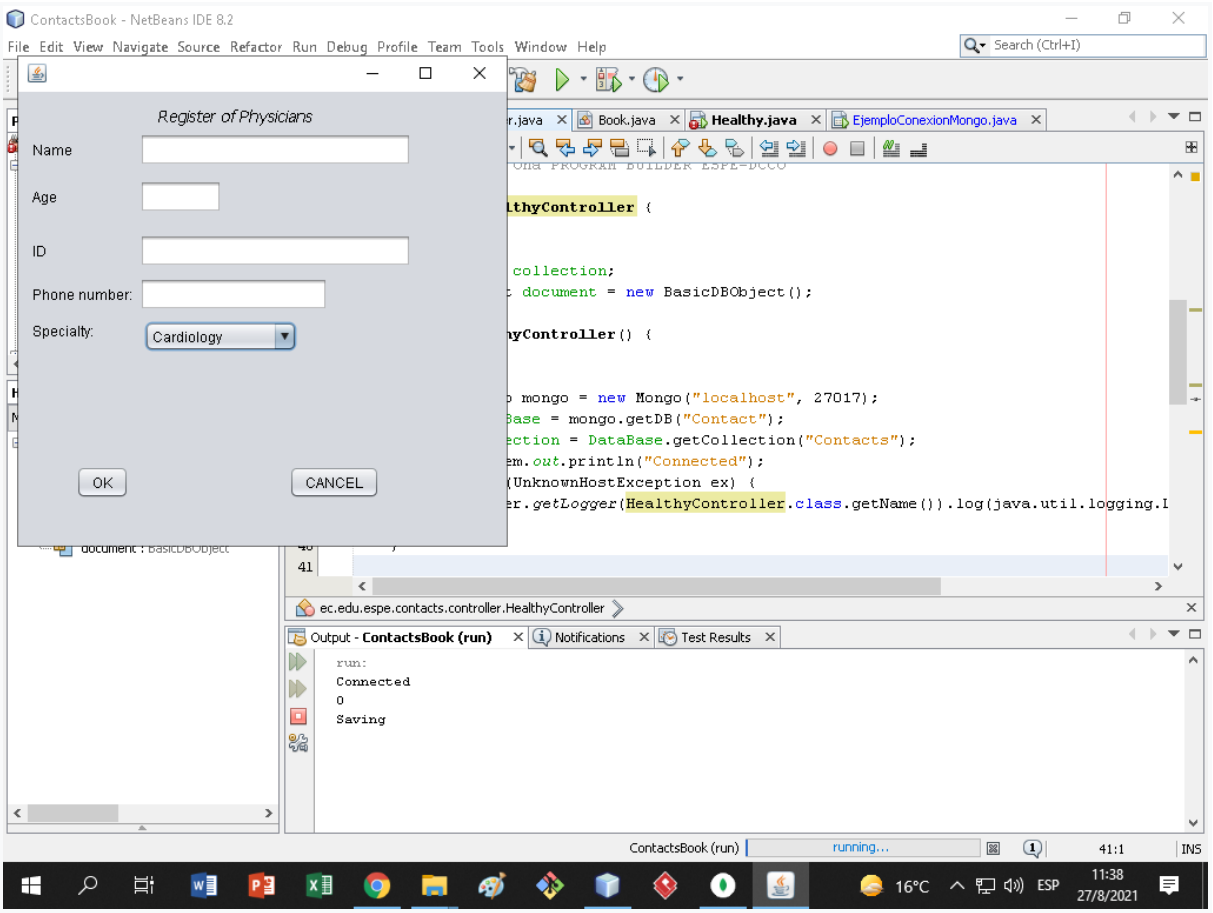
When we talk about programming code we refer to the language with which computers work, it comprises a set of instructions and data to be processed automatically.

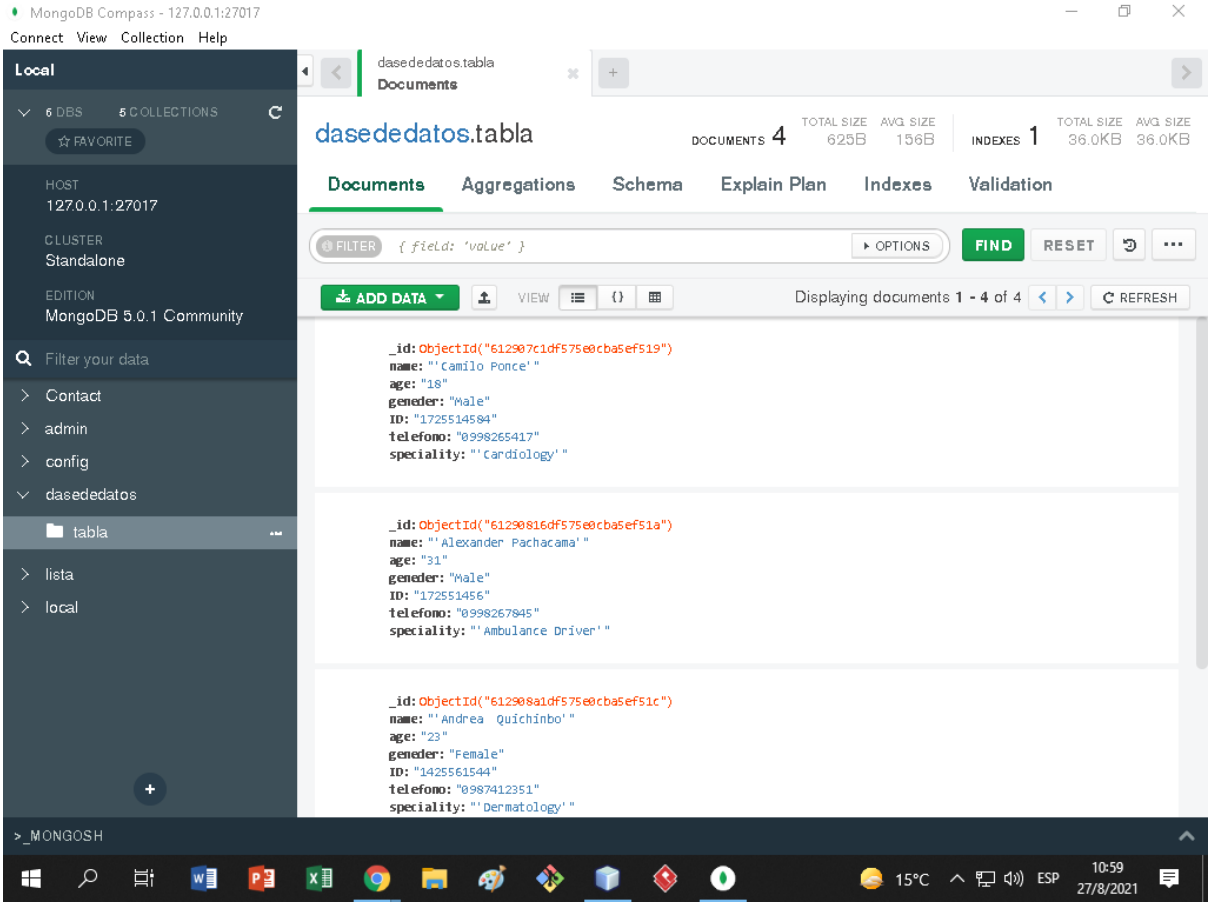
Computer code can be binary (interpretable only by computers), source code (interpretable by human beings), and in its legal or political aspect it can be free software, open source, freeware, shareware or traditional proprietary / proprietary software.




# Execution:

Execution time is the time interval in which a computer program runs on an operating system. This time begins when the program is put into main memory, so the operating system begins to execute its instructions.


ContactsBook - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
Register of Physicians
Name
Age
ID
Phone number:
Specialty:
Cardiology
OK
CANCEL
Book.java
Healthy.java
EjemploConexionMongo.java
HealthyController
collection;
document = new BasicDBObject();
mongo = new Mongo("localhost", 27017);
DataBase.getCollection("Contacts");
Connected
Output - ContactsBook (run)
Notifications
Test Results
run:
Connected
0
Saving
ec.edu.espe.contacts.controller.HealthyController
ContactsBook (run)
running...
41:1
INS
16°C
ESP
11:38
27/8/2021


MongoDB Compass - 127.0.0.1:27017
Connect View Collection Help
Local
6 DBS 5 COLLECTIONS
FAVORITE
HOST
127.0.0.1:27017
CLUSTER
Standalone
EDITION
MongoDB 5.0.1 Community
Filter your data
Contact
admin
config
dasededatos
tabla
lista
local
dasededatos.tabla
Documents
dasededatos.tabla
DOCUMENTS 4
TOTAL SIZE 625B
AVG. SIZE 156B
INDEXES 1
TOTAL SIZE 36.0KB
AVG. SIZE 36.0KB
Documents
Aggregations
Schema
Explain Plan
Indexes
Validation
FILTER { field: 'value' }
OPTIONS
FIND
RESET
ADD DATA
VIEW
Displaying documents 1 - 4 of 4
REFRESH
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name: "'Camilo Ponce'"
age: "18"
geneder: "Male"
ID: "1725514584"
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name: "'Alexander Pachacama'"
age: "31"
geneder: "Male"
ID: "172551456"
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speciality: "'Ambulance Driver'"
_id: ObjectId("612908a1df575e0cba5ef51c")
name: "'Andrea Quichimbo'"
age: "23"
geneder: "Female"
ID: "1425561544"
telefono: "0987412351"
speciality: "'Dermatology'"
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27/8/2021

## Conclusions

In conclusion, it was possible to determine that the mongodb facilitates us in the creation of an external database because it is not necessary to build a schema, in which the data of a system is saved.