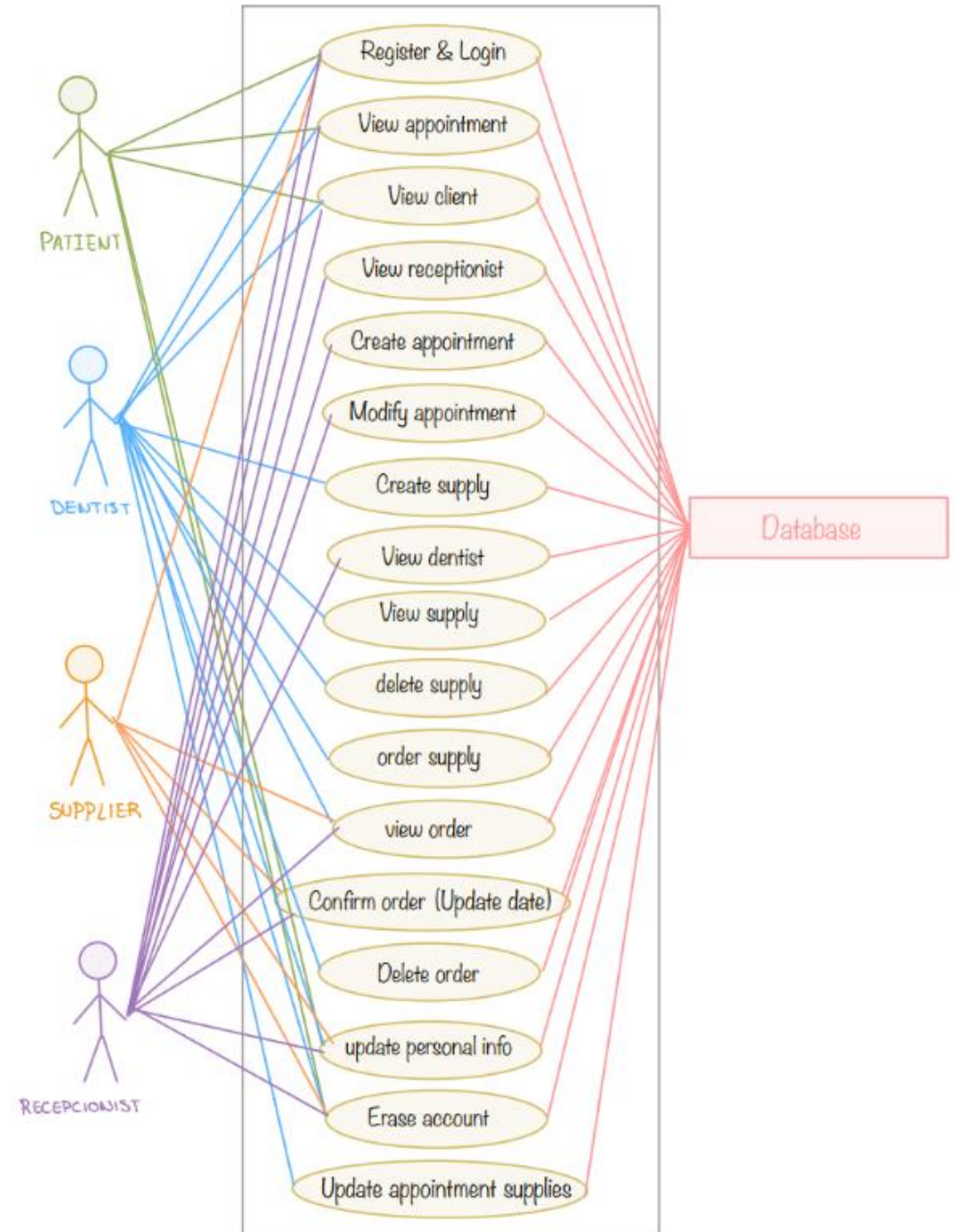


The background image shows a contemporary dental clinic. On the left, there is a dental treatment room with a white dental chair and various equipment. In the center, a reception desk with a light wood top and white base is visible. To the right, there is a waiting area with a desk and a door. The ceiling has recessed circular lights, and the walls are a mix of white and light blue.

# VILABOA DENTAL CLINIC DATABASE

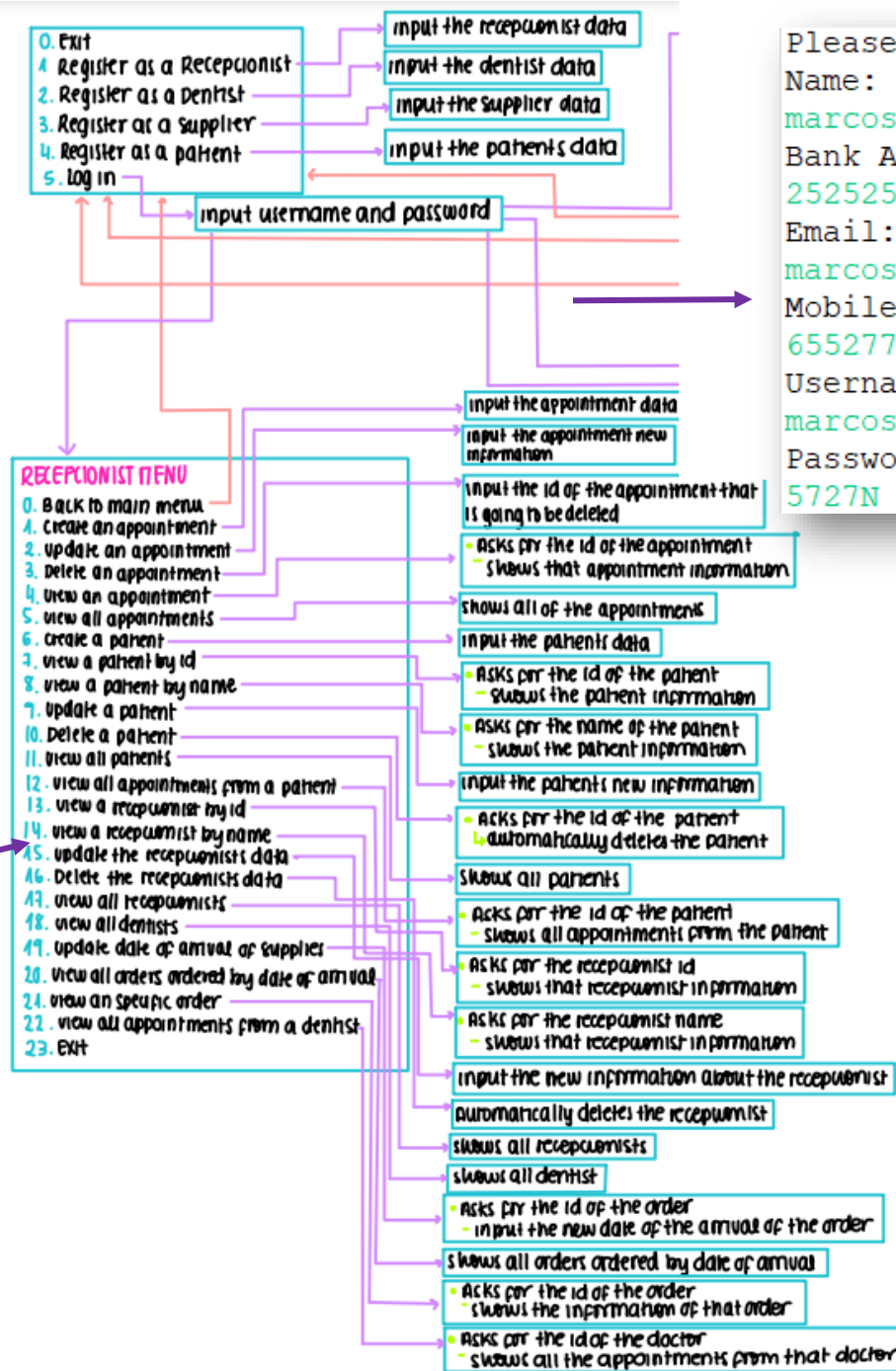
Verónica Gamo  
Laura Nooij  
Marta Plaza  
Elena Morales

# USE CASE DIAGRAM



# RECEPTIONIST

1. Create an appointment
2. Update an appointment
3. Delete an appointment
4. View an specific appointment
5. View all appointments
6. Create a patient
7. View a patient by id
8. View a patient by name
9. Update a patient
10. Delete a patient
11. View all patients
12. View all appointments from a patient
13. View a receptionist by id
14. View a receptionist by name
15. Update my data
16. Delete my data
17. View all receptionist
18. View all dentists
19. Update date of arrival of supplies
20. View all orders ordered by date of arrival
21. View a specific order
22. View all appointments from a dentist
23. Print data of patient in a XML file
24. Print data of supplier in a XML file
25. Load patient from XML file
26. Load supplier from XML file
27. Exit
0. Back to main menu



Please, input the receptionist's data:

Name:  
marcos

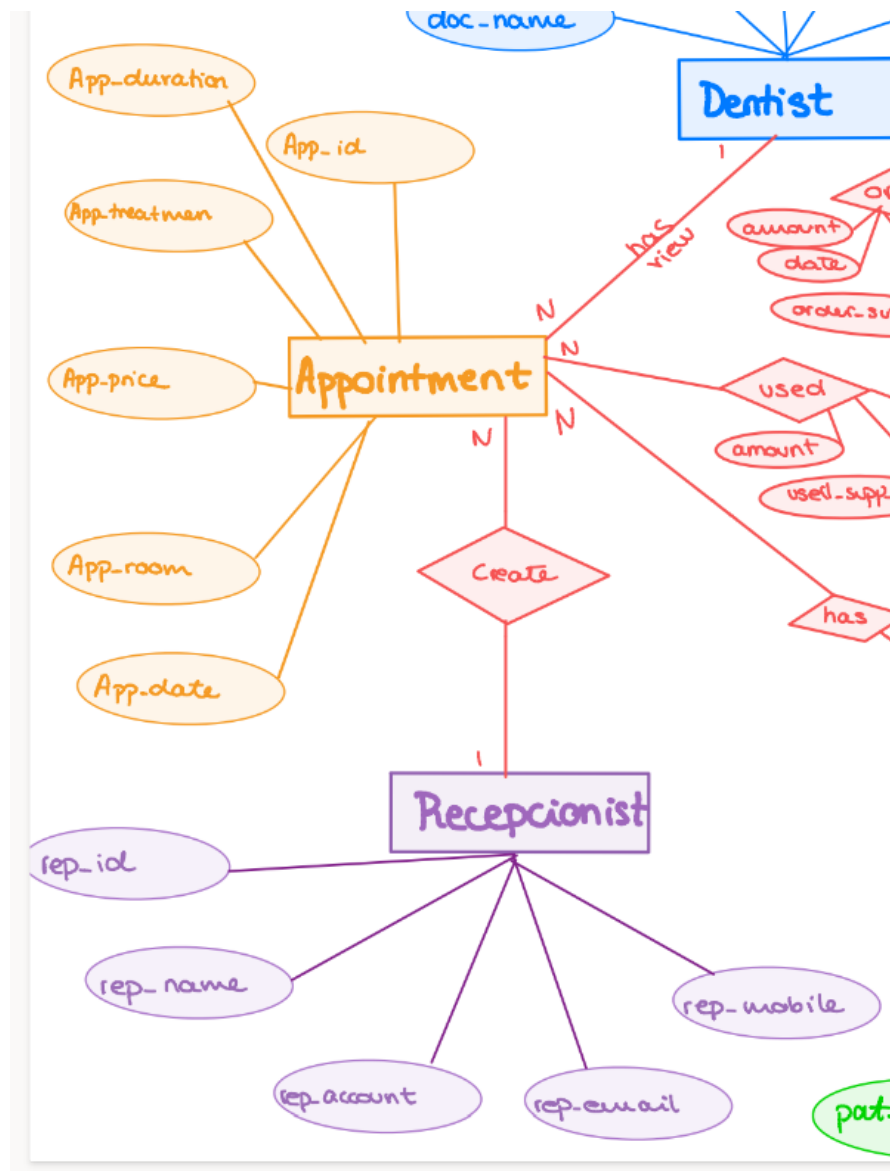
Bank Account:  
252525

Email:  
marcos@gmail.com

Mobile:  
655277456

Username:  
marcos11

Password:  
5727N





## CREATE APPOINTMENT

Please, input the appointment's data:

Date (yyyy-MM-dd):

2023-05-13

Duration in minutes

60

Room:

1

Price:

255.99

Treatment (Implants/Cleaning/Braces/Tooth extractions/Whitening):

Braces

Name dentist:

paula

Name patient:

ada

These are the supplies available ordered by amount:

```
[Supply [item_id=10, item_name=whitener, item_amount=485]
, Supply [item_id=8, item_name=braces, item_amount=496]
, Supply [item_id=9, item_name=tweezers, item_amount=498]
, Supply [item_id=3, item_name=drill, item_amount=499]
, Supply [item_id=1, item_name=anesthesia, item_amount=678]
, Supply [item_id=2, item_name=cotton, item_amount=902]
, Supply [item_id=4, item_name=toothpaste, item_amount=976]
, Supply [item_id=5, item_name=flossh, item_amount=988]
, Supply [item_id=6, item_name=glue, item_amount=996]
, Supply [item_id=7, item_name=implant, item_amount=1024]
]
```

Please, input the supply's id and amount you want for this appointment.

8

2

Do you want to add more supplies? YES:1; NO=0

0

## UPDATE APPOINTMENT

Please, input the appointment's data you want to update:

Id

17

Date (yyyy-MM-dd):

2023-05-13

Duration

70

Room:

1

Price:

295.99

Treatment (Implants/Cleaning/Braces/Tooth extractions/Whitening):

Braces

Name dentist:

paula

Name patient:

ada

## DELETE APPOINTMENT

Please, input the appointment's id you want to delete:

17

It has been deleted correctly

## VIEW APPOINTMENTS

Please, input the appointment's id you want to see:

18

Appointment [app\_id=18, app\_date=2023-05-13, app\_duration=60, app\_room=1, app\_price=255.99, app\_treatment=Braces, dentist\_id=2, receptionist\_id=5, patient\_id=19]

## CREATE A PATIENT

Please, input the client's data:

Name:

lucia

Health Number:

004586

Email:

luciav@gmail.com

Address:

calle de las rosas

Username:

luciav

Password:

343332H

## UPDATE PATIENT

Please, input the client's data you want to update:

Id:

20

Name:

lucia

Health Number:

345354

Email:

luciav@gmail.com

Address:

calle de las rosas

## VIEW PATIENT BY ID OR NAME

Please, input the client's id :

20

Client [pat\_id=20, pat\_name=lucia, hum=4586, pat\_address=calle de las rosas, pat\_email=luciav@gmail.com]

Please, input the client's name:

lucia

Client [pat\_id=20, pat\_name=lucia, hum=4586, pat\_address=calle de las rosas, pat\_email=luciav@gmail.com]

## DELETE PATIENT

Please, input the client's id you want to delete:

20

It has been deleted correctly

## VIEW ALL PATIENTS

List of patients:

```
[Client [pat_id=1, pat_name=laura, hum=17414, pat_address=calle de america, pat_email=laura@gmail.com]
, Client [pat_id=2, pat_name=elena, hum=35872, pat_address=calle playa del sardinero, pat_email=elena@gmail.com]
, Client [pat_id=3, pat_name=keko, hum=1974641, pat_address=calle ladera de los alemdros, 43, pat_email=keko2003@gamil.com]
, Client [pat_id=18, pat_name=andrea, hum=283754, pat_address=calle del sol, 43, pat_email=andrea@gmail.com]
, Client [pat_id=19, pat_name=ada, hum=45633, pat_address=calle isla menorca, pat_email=adaprieto@gmail.com]
]
```

## VIEW APPOINTMENTS FROM A PATIENT

Please, input the client's id:

```
[Appointment [app_id=1, app_date=2023-03-04, app_duration=30, app_room=1, app_price=293.98, app_treatment=Implants, dentist_id=2, receptionist_id=2, patient_id=1]
, Appointment [app_id=3, app_date=2023-04-05, app_duration=60, app_room=4, app_price=1200.0, app_treatment=Implants, dentist_id=2, receptionist_id=2, patient_id=1]
, Appointment [app_id=4, app_date=2023-04-05, app_duration=60, app_room=4, app_price=1200.0, app_treatment=Implants, dentist_id=2, receptionist_id=2, patient_id=1]
, Appointment [app_id=5, app_date=2023-03-04, app_duration=60, app_room=4, app_price=1200.0, app_treatment=Implants, dentist_id=2, receptionist_id=2, patient_id=1]
, Appointment [app_id=9, app_date=2024-02-03, app_duration=60, app_room=2, app_price=678.0, app_treatment=Tooth extractions, dentist_id=2, receptionist_id=2, patient_id=1]
, Appointment [app_id=11, app_date=2023-03-04, app_duration=45, app_room=2, app_price=982.0, app_treatment=Braces, dentist_id=2, receptionist_id=2, patient_id=1]
, Appointment [app_id=14, app_date=2025-08-07, app_duration=30, app_room=3, app_price=1234.0, app_treatment=Tooth extractions, dentist_id=3, receptionist_id=4, patient_id=1]
, Appointment [app_id=16, app_date=2023-03-04, app_duration=12, app_room=1, app_price=123.0, app_treatment=Implants, dentist_id=3, receptionist_id=4, patient_id=1]
]
```

## VIEW RECEPTIONIST BY ID OR NAME

Please, input the receptionist's id :

5

Receptionist [rep\_id=5, rep\_name=marcos, bank\_account=252525, rep\_email=marcos@gmail.com, rep\_mobile=655277456]

Please, input the receptionist's name:

marcos

Receptionist [rep\_id=5, rep\_name=marcos, bank\_account=252525, rep\_email=marcos@gmail.com, rep\_mobile=655277456]

## UPDATE MY DATA

## DELETE MY DATA

Please, input the receptionist's data you want to update:

Name:

pablo lopez

Bank Account:

14875145

Email:

pablito@gmail.com

Mobile:

914645788

## VIEW ALL RECEPTIONISTS

List of receptionists:

```
[Receptionist [rep_id=2, rep_name=miguel, bank_account=123456, rep_email=miguel@hotmail.com, rep_mobile=629454533]  
, Receptionist [rep_id=4, rep_name=pablo lopez, bank_account=1487514, rep_email=pablito@gmail.com, rep_mobile=914645788]  
]
```

## VIEW ALL DENTISTS AND ALL APPOINTMENTS FROM A DENTIST

List of dentists:

```
[Dentist [doc_id=1, name=Jorge Gamo, bank_account=174512, doc_mobile=+(62)178451742, doc_email=jorge@clinic.com]
, Dentist [doc_id=2, name=paula, bank_account=129847615, doc_mobile=91836244, doc_email=paula@clinic.com]
, Dentist [doc_id=3, name=cristina, bank_account=194512414, doc_mobile=664813661, doc_email=cristinasanchez@clinic.com]
, Dentist [doc_id=4, name=maria, bank_account=30952, doc_mobile=634505399, doc_email=maria@clinic.com]
]
```

Please, select the dentist's id to see the appointments

2

```
[Appointment [app_id=1, app_date=2023-03-04, app_duration=30, app_room=1, app_price=293.98, app_treatment=Implants, dentist_id=2, receptionist_id=2, patient_id=1]
, Appointment [app_id=2, app_date=2023-06-06, app_duration=60, app_room=2, app_price=298.83, app_treatment=Braces, dentist_id=2, receptionist_id=2, patient_id=0]
, Appointment [app_id=3, app_date=2023-04-05, app_duration=60, app_room=4, app_price=1200.0, app_treatment=Implants, dentist_id=2, receptionist_id=2, patient_id=1]
, Appointment [app_id=4, app_date=2023-04-05, app_duration=60, app_room=4, app_price=1200.0, app_treatment=Implants, dentist_id=2, receptionist_id=2, patient_id=1]
, Appointment [app_id=5, app_date=2023-03-04, app_duration=60, app_room=4, app_price=1200.0, app_treatment=Implants, dentist_id=2, receptionist_id=2, patient_id=1]
, Appointment [app_id=7, app_date=2023-08-07, app_duration=60, app_room=1, app_price=458.78, app_treatment=Cleaning, dentist_id=2, receptionist_id=2, patient_id=0]
, Appointment [app_id=8, app_date=2024-05-03, app_duration=45, app_room=2, app_price=345.69, app_treatment=Whitening, dentist_id=2, receptionist_id=2, patient_id=0]
, Appointment [app_id=9, app_date=2024-02-03, app_duration=60, app_room=2, app_price=678.0, app_treatment=Tooth extractions, dentist_id=2, receptionist_id=2, patient_id=0]
, Appointment [app_id=10, app_date=2024-01-02, app_duration=30, app_room=2, app_price=234.65, app_treatment=Braces, dentist_id=2, receptionist_id=2, patient_id=0]
, Appointment [app_id=11, app_date=2023-03-04, app_duration=45, app_room=2, app_price=982.0, app_treatment=Braces, dentist_id=2, receptionist_id=2, patient_id=1]
, Appointment [app_id=18, app_date=2023-05-13, app_duration=60, app_room=1, app_price=255.99, app_treatment=Braces, dentist_id=2, receptionist_id=0, patient_id=19]
]
```

## UPDATE DATE OF ARRIVAL OF SUPPLIES

Please, input the order's id you want to change its date:

5

Please, input the new date :

Date (yyyy-MM-dd):

2023-05-13

## VIEW ALL ORDERS ORDERED BY DATE

```
[Order_supplies [order_supp_id=3, item_id=2, doc_id=3, amount=10, date=2023-05-05, supplierId=1]
, Order_supplies [order_supp_id=1, item_id=1, doc_id=3, amount=100, date=2023-05-07, supplierId=1]
, Order_supplies [order_supp_id=4, item_id=5, doc_id=3, amount=5, date=2023-05-12, supplierId=4]
, Order_supplies [order_supp_id=2, item_id=3, doc_id=3, amount=100, date=2024-05-04, supplierId=1]
]
```

## VIEW SPECIFIC ORDER

Please, input the order's id you want to see:

1

```
Order_supplies [order_supp_id=1, item_id=1, doc_id=3, amount=100, date=2023-05-07, supplierId=1]
```



## PRINT DATA IN XML FILE

```
▼<Supplier supName="pedro">  
  <email>pedromanzano@gmail.com</email>  
  <sup_address>calle de las vacas, 9</sup_address>  
</Supplier>
```

### SUPPLIER DATA

#### Supplier:

Name: Pedro y Hermanos

Email: pedromanzano@gmail.com

Address: C/ de las vacas, 9

```
▼<Client patName="keko">  
  <pat_email>keko2003@gamil.com</pat_email>  
  <hum>1974641</hum>  
  <pat_address>calle ladera de los alemdros, 43</pat_address>  
</Client>
```

### CLIENT DATA

**Name:**laura nooij

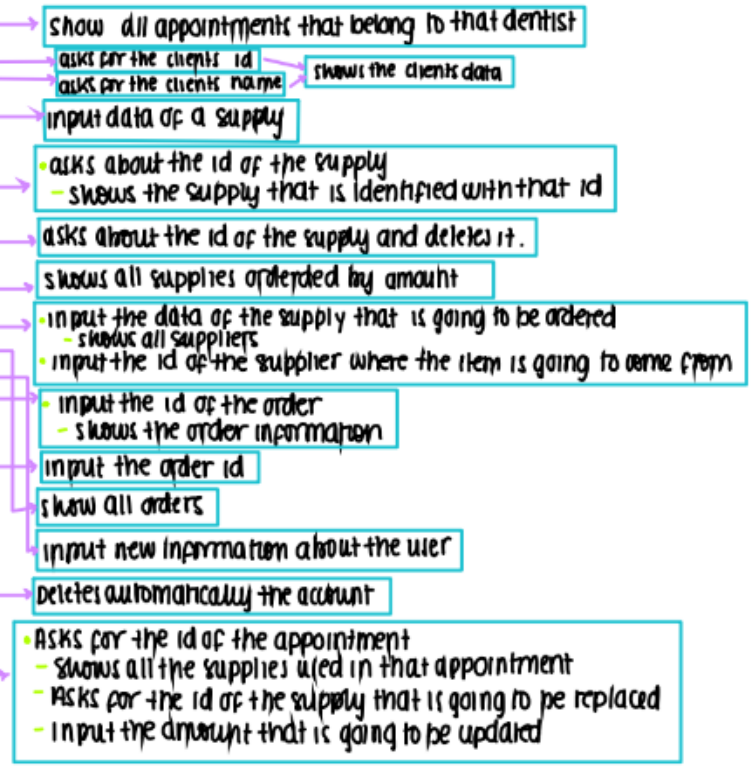
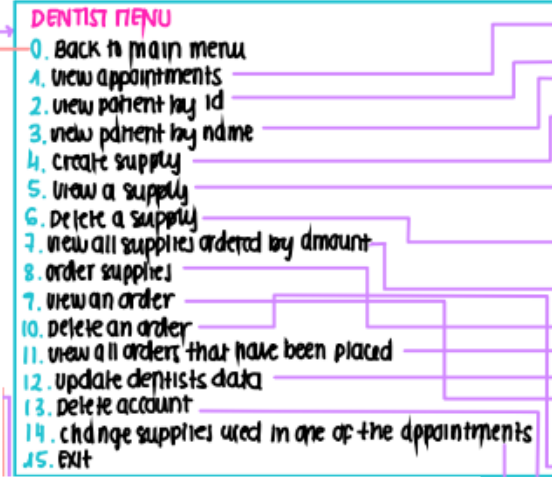
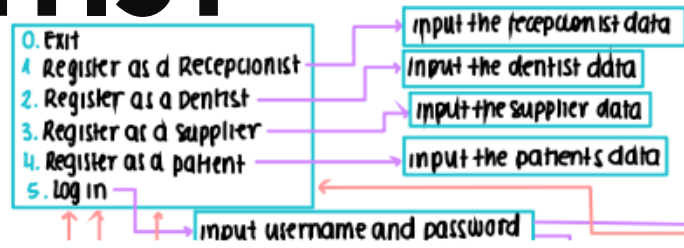
**Email:**laura@gmail.com

**Health number:**17414

**Address:**calle de america

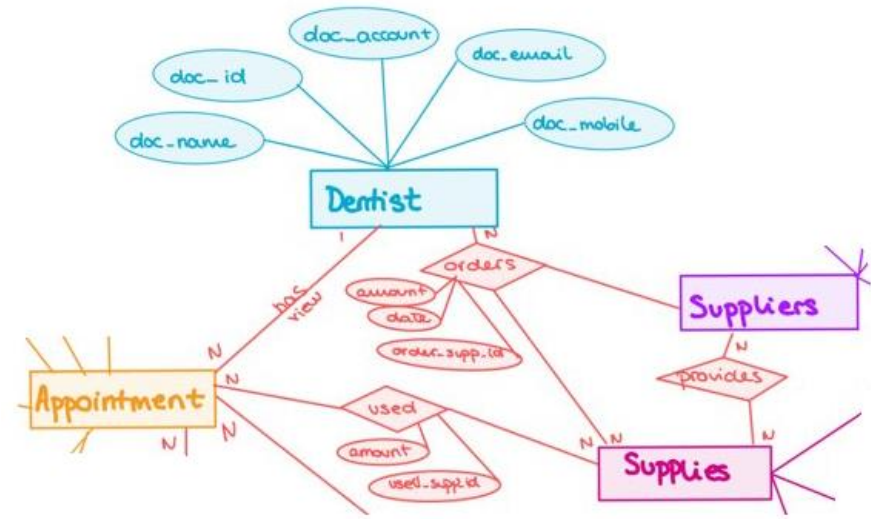
## LOAD FROM XML FILE

# DENTIST



Please, input the dentist's data:

Name:  
maria  
Bank Account  
30952  
Email:  
maria@clinic.com  
Mobile:  
634505399  
Username:  
mariahernandez  
Password:  
M24ea3



1. View all my appointments
2. View a patient by id
3. View a patient by name
4. Create supply
5. View a supply
6. Delete a supply
7. View all supplies ordered by amount
8. Order supplies
9. View an order
10. Delete an order
11. View all orders I have placed
12. Update my data
13. Delete my account
14. Change supplies used in one of my appointments
15. Exit
0. Back to main menu

## VIEW ALL MY APPOINTMENTS

```
[Appointment [app_id=12, app_date=2024-02-01, app_duration=30, app_room=2, app_price=1234.0, app_treatment=Whitening, dentist_id=3, receptionist_id=0, patient_id=0]
, Appointment [app_id=13, app_date=2023-08-07, app_duration=60, app_room=4, app_price=345.0, app_treatment=Braces, dentist_id=3, receptionist_id=4, patient_id=2]
, Appointment [app_id=14, app_date=2025-08-07, app_duration=30, app_room=3, app_price=1234.0, app_treatment=Tooth extractions, dentist_id=3, receptionist_id=4, patient_id=18]
, Appointment [app_id=15, app_date=2023-03-04, app_duration=60, app_room=1, app_price=1234.0, app_treatment=Implants, dentist_id=3, receptionist_id=4, patient_id=18]
, Appointment [app_id=16, app_date=2023-03-04, app_duration=12, app_room=1, app_price=123.0, app_treatment=Implants, dentist_id=3, receptionist_id=4, patient_id=1]
]
```

## VIEW A PATIENT BY ID

## VIEW A PATIENT BY NAME

Please, input the client's id :

20

```
Client [pat_id=20, pat_name=lucia, hum=4586, pat_address=calle de las rosas, pat_email=luciav@gmail.com]
```

Please, input the client's name:

lucia

```
Client [pat_id=20, pat_name=lucia, hum=4586, pat_address=calle de las rosas, pat_email=luciav@gmail.com]
```

## CREATE SUPPLY

## VIEW A SUPPLY

## DELETE A SUPPLY

Please, input the supply's data:

Name:

glue

Amount:

996

Please, input the supply's id you want to see:

6

```
Supply [item_id=6, item_name=glue, item_amount=996]
```

Please, input the supply's id you want to delete:

12

## VIEW ALL SUPPLIES ORDERED BY AMOUNT

```
[Supply [item_id=10, item_name=whitener, item_amount=485]
, Supply [item_id=8, item_name=braces, item_amount=492]
, Supply [item_id=9, item_name=tweezers, item_amount=498]
, Supply [item_id=3, item_name=drill, item_amount=499]
, Supply [item_id=1, item_name=anesthesia, item_amount=678]
, Supply [item_id=2, item_name=cotton, item_amount=902]
, Supply [item_id=4, item_name=toothpaste, item_amount=976]
, Supply [item_id=5, item_name=flossh, item_amount=988]
, Supply [item_id=6, item_name=glue, item_amount=996]
, Supply [item_id=7, item_name=implant, item_amount=1024]
]
```

## VIEW AN ORDER

Please, input the order's id you want to see:

```
1
Order_supplies [order_supp_id=1, item_id=1, doc_id=3, amount=100, date=2023-05-07, supplierId=1]
```

## VIEW ALL ORDERS I HAVE PLACED

```
[Order_supplies [order_supp_id=1, item_id=1, doc_id=3, amount=100, date=2023-05-07, supplierId=1]
, Order_supplies [order_supp_id=2, item_id=3, doc_id=3, amount=100, date=2024-05-04, supplierId=1]
, Order_supplies [order_supp_id=3, item_id=2, doc_id=3, amount=10, date=2023-05-05, supplierId=1]
, Order_supplies [order_supp_id=4, item_id=5, doc_id=3, amount=5, date=2023-05-12, supplierId=4]
, Order_supplies [order_supp_id=5, item_id=6, doc_id=3, amount=50, date=2023-05-13, supplierId=4]
]
```

## ORDER SUPPLIES

Please, input the following data in order to place an order:

Please, input the supply's id you want to order:

```
6
```

Please, input the amount:

```
50
```

Date (yyyy-MM-dd):

```
2023-05-13
```

```
[Supplier [sup_id=1, sup_name=pedro, sup_address=calle de las vacas, 9]
, Supplier [sup_id=4, sup_name=plastineon, sup_address=poligono fuenlabrada]
, Supplier [sup_id=5, sup_name=victor, sup_address=calle del tinte]
]
```

Please, input the supplier's id you want to provide this item.

```
4
```

## DELETE AN ORDER

Please, input the order's id you want to delete:

```
6
```

## UPDATE MY DATA

Please, input your data you want to update:

Name:

```
cristina
```

Bank Account:

```
5664464
```

Email:

```
cristinasanchez@clinic.com
```

Mobile:

```
666432433
```

It has been updated correctly

## DELETE MY ACCOUNT

It has been deleted correctly

## CHANGE SUPPLIES USED IN ONE OF MY APPOINTMENTS

```
[Appointment {app_id=12, app_date=2024-02-01, app_duration=30, app_room=2, app_price=1234.0, app_treatment=Whitening, dentist_id=3, receptionist_id=0, patient_id=0}
, Appointment {app_id=13, app_date=2023-08-07, app_duration=60, app_room=4, app_price=345.0, app_treatment=Braces, dentist_id=3, receptionist_id=4, patient_id=2}
, Appointment {app_id=14, app_date=2025-08-07, app_duration=30, app_room=3, app_price=1234.0, app_treatment=Tooth extractions, dentist_id=3, receptionist_id=4, patient_id=18}
, Appointment {app_id=15, app_date=2023-03-04, app_duration=60, app_room=1, app_price=1234.0, app_treatment=Implants, dentist_id=3, receptionist_id=4, patient_id=18}
, Appointment {app_id=16, app_date=2023-03-04, app_duration=12, app_room=1, app_price=123.0, app_treatment=Implants, dentist_id=3, receptionist_id=4, patient_id=1}
]
```

These are your appointments. Select the appointment's id for which you want to update the supplies used

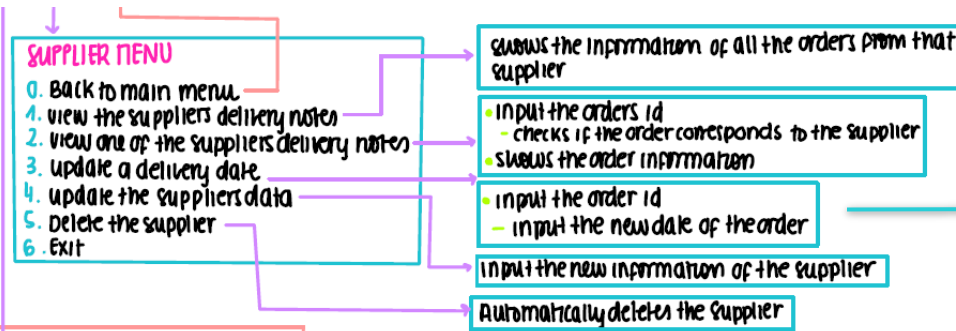
```
16
[Used_supplies {item_id=4, app_id=16, used_supp_id=44, amount=10}
, Used_supplies {item_id=4, app_id=16, used_supp_id=45, amount=10}
]
```

These are all the used supplies for this appointment. Which one do you want to update? Select the id

```
44
Write the real amount that was used
10
```



# SUPPLIER



Please, input the supplier's data:

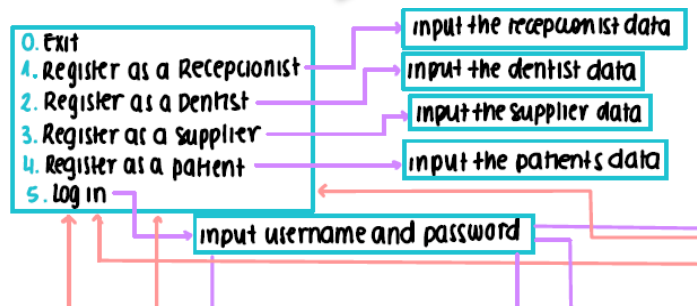
Name:  
victor

Address:  
calle del tinte

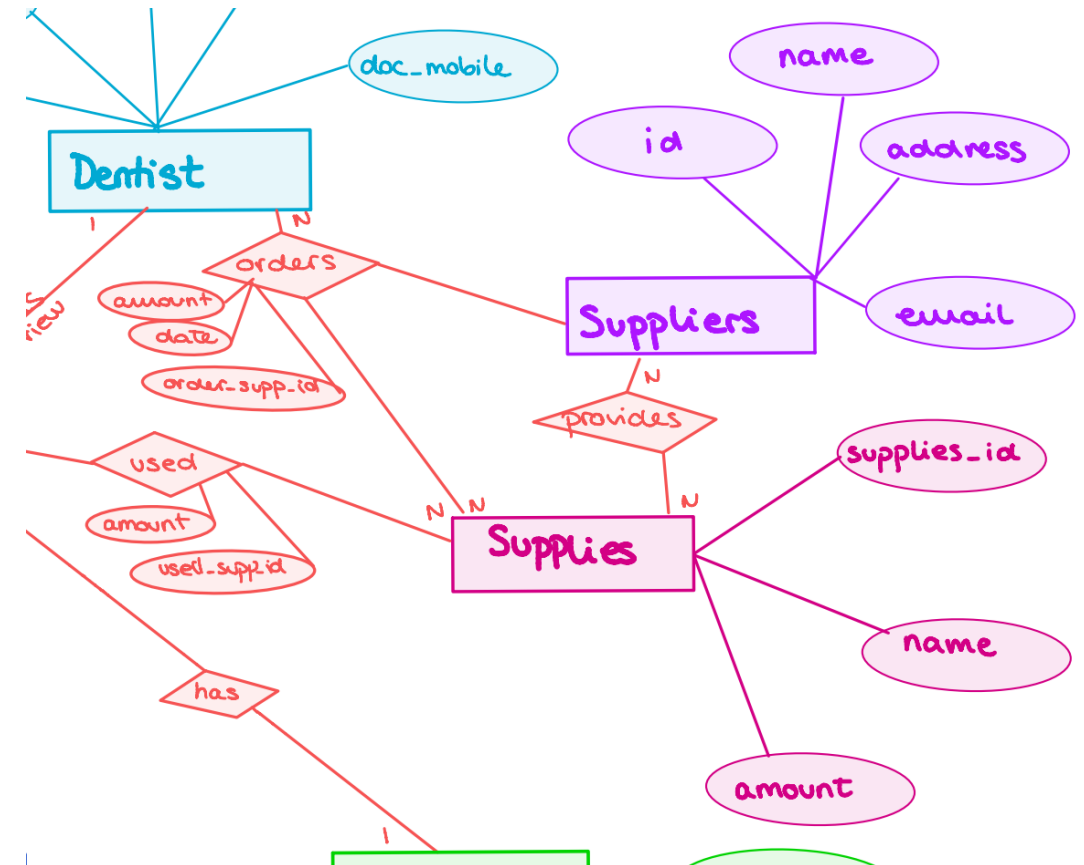
Email:  
victor02@gmail.com

Username:  
victorp

Password:  
4422nN



1. View all my delivery notes
2. View one of my delivery notes
3. Update delivery date
4. Update my data
5. Delete my account
6. Exit
0. Back to main menu



### VIEW ALL DELIVERY NOTES

```
[Order_supplies [order_supp_id=4, item_id=5, doc_id=3, amount=5, date=2023-05-12, supplierId=4]  
, Order_supplies [order_supp_id=5, item_id=6, doc_id=3, amount=50, date=2023-05-13, supplierId=4]  
]
```

### VIEW ONE OF THE DELIVERY NOTES

Please, input the order's id you want to see:

4

```
Order_supplies [order_supp_id=4, item_id=5, doc_id=3, amount=5, date=2023-05-12, supplierId=4]
```

### UPDATE A DELIVERY DATE

Please, input the order's id you want to change its date:

4

Please, input the new date :

Date (yyyy-MM-dd):

2023-05-13

### UPDATE MY DATA

Please, input your data you want to update:

Name:

plastineon

Address:

poligono fuenlabrada

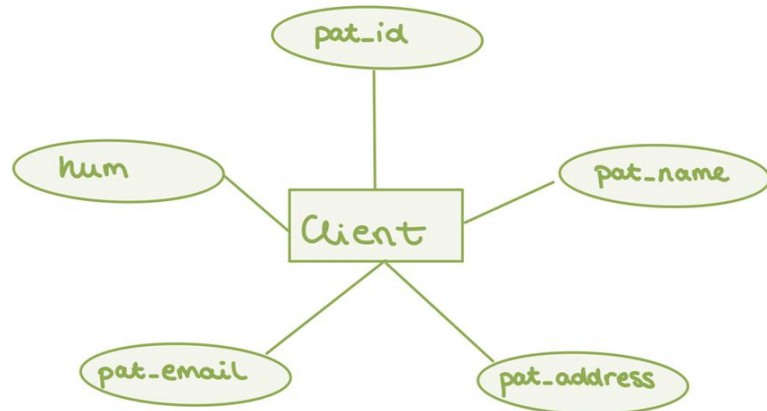
Email:

plastineon@gmail.com

### DELETE MY ACCOUNT

It has been deleted correctly

# PATIENT



0. Exit
1. Register as a Receptionist
2. Register as a Dentist
3. Register as a Supplier
4. Register as a patient
5. log in

input the patients data

input username and password

Username:  
OscarClient  
Password:  
9876

Please, input the patient's data:

Name:  
Oscar  
Health number:  
123456789  
Address  
C/ Nosedonde, 7 ch4  
Email:  
Oscar@gmail.com  
Username:  
OscarClient  
Password:  
9876

## CLIENT MENU

0. Back to main menu
1. update the client's data
2. Delete the client
3. view all the client's appointments
4. view the client's data
5. Exit

input the new information

automatically delete a patient

show all the appointments  
(the ones that it has already appointments)

shows the patient data

1. Update my data
2. Delete my account
3. View all my appointments
4. View my data
5. Exit
0. Back to main menu

## VIEW MY APPOINTMENTS



3

```
[Appointment [app_id=17, app_date=2023-07-21, app_duration=50, app_room=2, app_price=100.0, app_treatment=Tooth extractions, dentist_id=4, receptionist_id=6, patient_id=22]  
, Appointment [app_id=18, app_date=2023-06-03, app_duration=20, app_room=4, app_price=20.0, app_treatment=Cleaning, dentist_id=2, receptionist_id=6, patient_id=22]  
, Appointment [app_id=19, app_date=2023-09-16, app_duration=45, app_room=3, app_price=110.0, app_treatment=Whitening, dentist_id=1, receptionist_id=6, patient_id=22]  
, Appointment [app_id=20, app_date=2023-09-16, app_duration=45, app_room=6, app_price=80.0, app_treatment=Whitening, dentist_id=1, receptionist_id=6, patient_id=22]  
]
```

1

```
Name:  
Oscar  
Health Number:  
123456789  
Email:  
Oscar@gmail.com  
Address:  
C/ Santas Pascuas 19
```

## UPDATE MY DATA



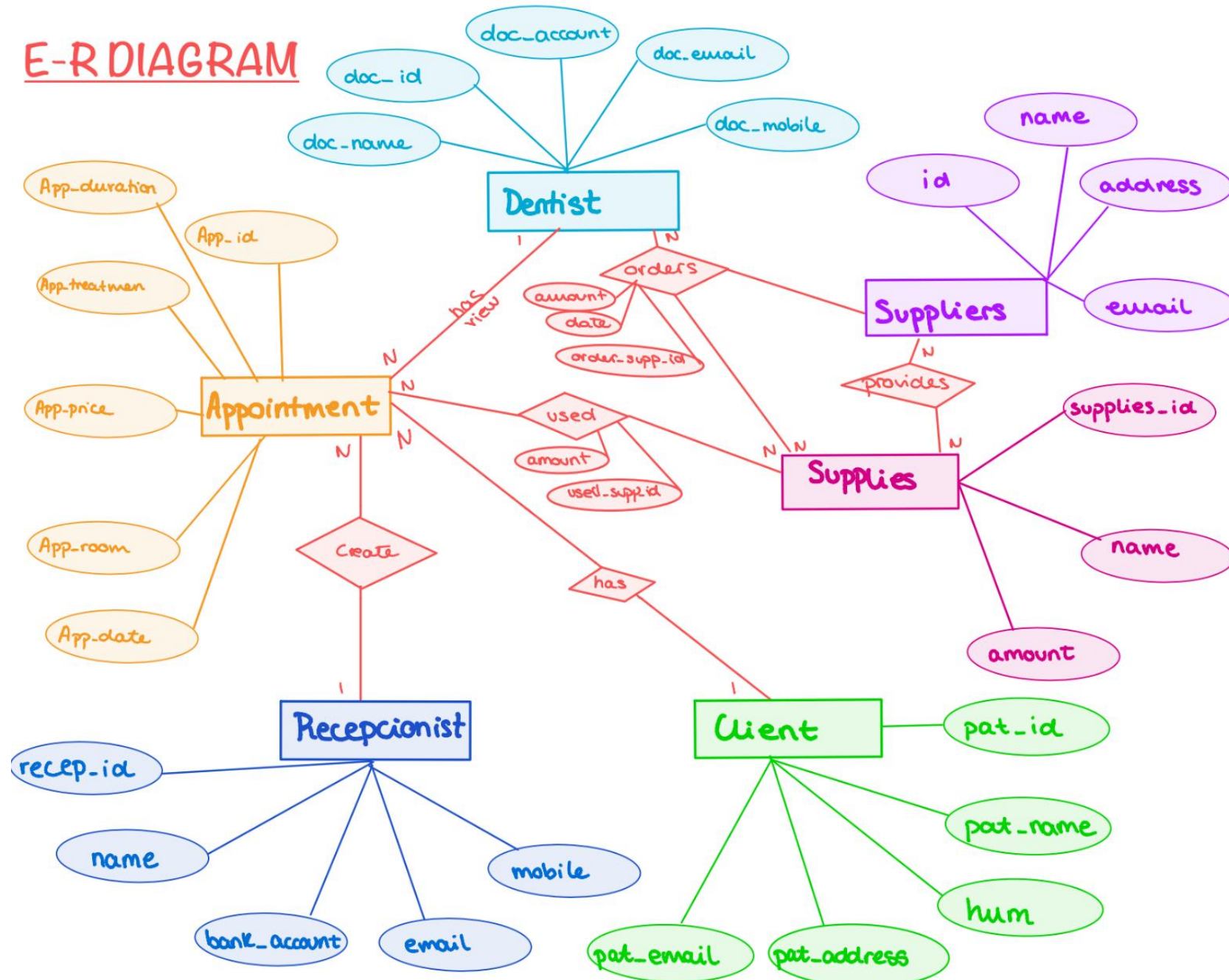
## VIEW MY DATA



4

```
Client [pat_id=22, pat_name=Oscar, hum=123456789, pat_address=C/ Santas Pascuas 19, pat_email=Oscar@gmail.com]
```

# E-R DIAGRAM





Thank you for your attention!

Do you have any questions?