

CSI 2532: Livrable 2

Groupe 15

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Link for github : https://github.com/riyad123456/project_dialna_bouhdna

Link for presentation video can be found in the read me in the github repo

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1- Technology stack:

For my solution I decided that it was best to use ExpressJs as the framework, especially since it was my first time making a full stack website. Having a lot of resources is a must especially when troubleshooting and since Express is super popular I didn't have any

trouble googling errors and finding solutions immediately.

For my database I decided on Postgres cause it was easy to use and apparently many employers prefer it, so knowing how to use it was important.

And for the styling I kept it simple, just some good old Css and Javascript were enough to get the job done.

2- Setting up the environment:

Installing Nodejs

Very straightforward. Here is the link for the download [nodejs](#)

Initialize environment

After properly setting up nodejs, go to the directory of the project files and run the following command.

```
npm install
```

This command will install all the required packages.

Client info

Change the highlighted part of the code depending on your set-up. Note that you might need to add a password if you have one in place.

```
const Pool = require("pg").Pool;
```

```
const pool = new Pool
```

```
  user: "postgres",  
  password: "papi",  
  host: "localhost",  
  port: 5432,  
  database: "csi2532"  
});
```

```
module.exports = pool;
```



• Erreur 197,

server.js



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Erreur 197,

Use the file in src/db.js to get all the necessary queries in order to set up your database and then run them all consequently in your psql terminal.

After that, open postgres and create a database called : csi2532

Then connect to that database : \c csi2532 and copy all the queries from src\queries-db.sql

After that open a terminal, go to src folder and run the following command : "node server.js" to start the server

Concurrently, run the react app: npm start .

You can try creating a new patient account but here is an account setup for testing :

Username : lilliano

password : papipapi123

After that you can go back to the login page and try the receptionist interface with this account :

Username : wharry

password : papipapi123

Same this for the Dentist interface with this account :

Username : mrose

password : papipapi123

3- Interfaces :

1- Patient :

A patient can see his profile information and edit them. He can also see all the treatments, procedures and appointments present in his record.

2- Receptionist:

A receptionist can see all the patients accounts availables, edit their information, delete the accounts and create appointments for them. A receptionist can also see a list of all appointments, edit and delete them.

3- Dentist:

A dentist has access to the records of the patient : pass treatments and procedures. He can also add new ones for the patients.

4- DLL:

```
CREATE TABLE Patient(  
    Patient_ID BIGINT PRIMARY KEY,  
    Email VARCHAR(30) NOT NULL,  
  
    First_name VARCHAR(30) NOT NULL,  
    Last_name VARCHAR(30) NOT NULL,  
    Phone_num BIGINT NOT NULL,
```

```

SSN BIGINT NOT NULL,
Insurance VARCHAR(30) NOT NULL,
Age VARCHAR(2) NOT NULL,
Gender VARCHAR(20) NOT NULL,
Street_num INTEGER NOT NULL,
Street_name VARCHAR(100) NOT NULL,
Postal_code VARCHAR(30) NOT NULL,
City VARCHAR(30) NOT NULL,
Province VARCHAR(30) NOT NULL
);

INSERT INTO Patient(Patient_ID, Email, First_name, Last_name,
Phone_num, SSN, Insurance, Age, Gender, Street_num, Street_name,
Postal_code, City, Province) VALUES (1, 'samantha25@gmail.com',
'Samantha', 'Green', 6135608989, 167283432,
'ABCInsurance1', 25, 'Female', 1019, 'Acorn Street', 'Ottawa',
'Ontario');

INSERT INTO Patient(Patient_ID, Email, First_name, Last_name,
Phone_num, SSN, Insurance, Age, Gender, Street_num, Street_name,
Postal_code, City, Province) VALUES (345678932, 'tim88@gmail.com',
'Timothy', 'Smith', 6132896790, 797886422, 'NewInsurance45', 88,
'Male',
38, 'Apple Street', 'K47 32F', 'Ottawa', 'Ontario');

INSERT INTO Patient(Patient_ID, Email, First_name, Last_name,
Phone_num, SSN, Insurance, Age, Gender, Street_num, Street_name,
Postal_code, City, Province) VALUES (435435, 'alex@gmail.com',
'Hicham', 'Mazouzi', 6135608989, 167283432, 'ABCInsurance1', 31,
'Male',
999, 'Brownspring Drive', 'KH6 32D', 'Ottawa', 'Ontario');

INSERT INTO Patient(Patient_ID, Email, First_name, Last_name,
Phone_num, SSN, Insurance, Age, Gender, Street_num, Street_name,
Postal_code, City, Province) VALUES (784628391,
'lilliantay66@gmail.com',
'Lillian', 'Taylor', 6138990943, 676789876, 'NewInsurance45', 66,

```

```

'Female',
    1019, 'Bell Street ', 'K45 32J', 'Toronto', 'Ontario');

INSERT INTO Patient(Patient_ID, Email, First_name, Last_name,
    Phone_num, SSN, Insurance, Age, Gender, Street_num, Street_name,
    Postal_code, City, Province) VALUES (763290987, 'sarah00@gmail.com',
    'Sarah', 'Mitchell', 6131523787, 898989095, 'OttawaInsurance8', 18,
'Female',
    76, 'Tamerton Street', 'K54 FE3', 'London', 'Ontario');

INSERT INTO Patient(Patient_ID, Email, First_name, Last_name,
    Phone_num, SSN, Insurance, Age, Gender, Street_num, Street_name,
    Postal_code, City, Province) VALUES (383863625, 'ben10@gmail.com',
    'Ben', 'Collins', 6135678781, 672451989, 'ABCInsurance1', 20, 'Male',
    4501, 'Charlotte Street', 'K78 23H', 'Brampton', 'Ontario');

CREATE TABLE Branch(
    Branch_ID INTEGER PRIMARY KEY,
    Employees_num int NOT NULL,
    Street_num int NOT NULL,
    Street_name VARCHAR(50) NOT NULL,
    City VARCHAR(100) NOT NULL,
    Province VARCHAR(100) NOT NULL,
    Postal_code VARCHAR(30) NOT NULL,
    Branch_manager VARCHAR(30) NOT NULL
);

INSERT INTO Branch(Branch_ID, Employees_num, Street_num, Street_name,
    City, Province, Postal_code, Branch_manager)
    VALUES (06207605, 3, 1428, 'Gladstone Avenue', 'Toronto',
    'ON', 'K3J 9N2', 'Andy Wong');

INSERT INTO Branch(Branch_ID, Employees_num, Street_num, Street_name,
    City, Province, Postal_code, Branch_manager)
    VALUES (214635515, 3, 1428, 'Carlingwood Avenue', 'Toronto',
    'ON', 'K3Y 9N2', 'Ashley Beaudry');

```

```

CREATE TABLE Employee(
    Employee_ID BIGINT PRIMARY KEY,
    Email VARCHAR(30) NOT NULL,
    First_name VARCHAR(30) NOT NULL,
    Last_name VARCHAR(30) NOT NULL,
    Phone_num BIGINT NOT NULL,
    SSN BIGINT NOT NULL,
    Employee_role VARCHAR(50) NOT NULL,
    Insurance VARCHAR(50) NOT NULL,
    Salary decimal(10,2) NOT NULL DEFAULT '0.00',
    Age VARCHAR(2) NOT NULL,
    Gender VARCHAR(20) NOT NULL,
    Street_num int NOT NULL,
    Street_name VARCHAR(100) NOT NULL,
    Province VARCHAR(100) NOT NULL,
    City VARCHAR(100) NOT NULL,
    Postal_code VARCHAR(20) NOT NULL,
    Branch_ID BIGINT NOT NULL,

    FOREIGN KEY(Branch_ID) REFERENCES Branch(Branch_ID)
);

INSERT INTO Employee(Employee_ID, Email, First_name, Last_name,
    Phone_num, SSN, Employee_role, Insurance, Salary, Age, Gender,
    Street_num, Street_name,
    Province, City, Postal_code, Branch_ID) VALUES (167823567,
'gail123@gmail.com', 'Gail',
    'Price', 40345987, 6591539578, 'Receptionist', 'Canada Life', 50000,
70, 'Female', 741, 'Church Hill', 'ON', 'Ottawa',
    'K1J 8N3', 214635515);

INSERT INTO Employee(Employee_ID, Email, First_name, Last_name,
    Phone_num, SSN, Employee_role, Insurance, Salary, Age, Gender,
    Street_num, Street_name,
    Province, City, Postal_code, Branch_ID) VALUES (787898765,

```



```

'harry67@gmail.com', 'Harry',
    'Williams', 5609898765, 674321689, 'Receptionist', 'Canada Life',
20000, 23, 'Male', 1027, 'Cheney Road', 'ON', 'Toronto',
    'K4J 7N3', 214635515);

INSERT INTO Employee(Employee_ID, Email, First_name, Last_name,
    Phone_num, SSN, Employee_role, Insurance, Salary, Age, Gender,
Street_num, Street_name,
    Province, City, Postal_code, Branch_ID) VALUES (676764543,
'hariett@gmail.com' , 'Harriett',
    'Parker', 613676890, 123456888, 'dentist', 'Canada Life', 45000, 41,
'Female', 999, ' Kendal Street', 'ON', 'Hamilton',
    'K2F 8N6', 06207605);

INSERT INTO Employee(Employee_ID, Email, First_name, Last_name,
    Phone_num, SSN, Employee_role, Insurance, Salary, Age, Gender,
Street_num, Street_name,
    Province, City, Postal_code, Branch_ID) VALUES (088059439,
'MelissaRose@gmail.com', 'Melissa',
    'Rose', 071410562, 844632496, 'dentist', 'Canada Life', 60000, 40,
'Female', 1741, 'Longfields Road', 'ON', 'Toronto',
    'K1J 8N1', 06207605);

CREATE TABLE Utilisateur(
    Username VARCHAR(50) PRIMARY KEY,
    Password VARCHAR(50) NOT NULL,
    Role VARCHAR(20) NOT NULL,
    id INTEGER NOT NULL
);

INSERT INTO Utilisateur(Username, Password, Role, id)
VALUES ('beno', 'papipapil23', 'patient', 383863625);
INSERT INTO Utilisateur(Username, Password, Role, id)
VALUES ('saraho', 'papipapil23', 'patient', 763290987);

```

```

INSERT INTO Utilisateur(Username, Password,Role, id)
VALUES('lilliano','papipapil23','patient',784628391);
INSERT INTO Utilisateur(Username, Password,Role, id)
VALUES('hichamo','papipapil23','patient',435435);
INSERT INTO Utilisateur(Username, Password,Role, id)
VALUES('samanthap','papipapil23','patient',1);
INSERT INTO Utilisateur(Username, Password,Role, id)
VALUES('timothyo','papipapil23','patient',345678932);
INSERT INTO Utilisateur(Username, Password,Role, id)
VALUES('mrose','papipapil23','dentist',088059439);
INSERT INTO Utilisateur(Username, Password,Role, id)
VALUES('pharriett','papipapil23','detnist',676764543);
INSERT INTO Utilisateur(Username, Password,Role, id)
VALUES('wharry','papipapil23','receptionist',787898765);
INSERT INTO Utilisateur(Username, Password,Role, id)
VALUES('pgail','papipapil23','receptionist',167823567);

CREATE TABLE Treatment(
    Treatment_ID int PRIMARY KEY,
    Treatment_type VARCHAR(30) NOT NULL,
    Patient_ID INTEGER NOT NULL,
    Medication VARCHAR(100) NOT NULL,
    Symptoms VARCHAR(200) NOT NULL,
    Tooth VARCHAR(200) NOT NULL,
    Patient_condition VARCHAR(50) NOT NULL,
    FOREIGN KEY(Patient_ID) REFERENCES Patient(Patient_ID)
);

INSERT INTO Treatment (Treatment_ID,Treatment_type,Patient_ID,
Medication,Symptoms,Tooth,Patient_condition) VALUES
(2546,'test',784628391,
'testtest','testsymp','hyeuj','mskin elih');

INSERT INTO Treatment (Treatment_ID,Treatment_type,Patient_ID,
Medication,Symptoms,Tooth,Patient_condition) VALUES
(2,'testngg',784628391,
'te','tsymp','hyeuj','mmskin elih');

```

```

INSERT INTO Treatment (Treatment_ID,Treatment_type,Patient_ID,
Medication,Symptoms,Tooth,Patient_condition) VALUES
(24578,'test',763290987 ,
'dolipr','snanou ki drouh','drssa','mskin elih');

INSERT INTO Treatment (Treatment_ID,Treatment_type,Patient_ID,
Medication,Symptoms,Tooth,Patient_condition) VALUES (1,'test',763290987 ,
'pomada sfra','sna tart ','nab','mmskin elih');

INSERT INTO Treatment (Treatment_ID,Treatment_type,Patient_ID,
Medication,Symptoms,Tooth,Patient_condition) VALUES (15,'test',435435 ,
'pomada sfra vers','sna tart ','nab','mskin elih');

CREATE TABLE Appointment(
    Appointment_ID INTEGER PRIMARY KEY,
    Branch_ID INTEGER NOT NULL,
    Dentist_identifier VARCHAR(30) NOT NULL,
    Appointment_type VARCHAR(30) NOT NULL,
    Statue VARCHAR(30) NOT NULL,
    Room_assigned VARCHAR(30) NOT NULL,
    Appointment_date DATE NOT NULL,
    Start_time INTEGER NOT NULL,
    End_time INTEGER NOT NULL,
    Patient_ID INTEGER NOT NULL,
    FOREIGN KEY(Patient_ID) REFERENCES Patient(Patient_ID)
);

INSERT INTO Appointment(Appointment_ID, Branch_ID, Dentist_identifier,
Appointment_type, Statue, Room_assigned, Appointment_date,
Start_time, End_time, Patient_ID) VALUES (987654567, 214635515,
'Dentist',
'Teeth cleaning', 'Confirmed', 'Room 101', '2022-04-20', 1400, 1430,
784628391);

INSERT INTO Appointment(Appointment_ID, Branch_ID, Dentist_identifier,

```

```

Appointment_type, Statue, Room_assigned, Appointment_date,
    Start_time, End_time, Patient_ID) VALUES (44789199, 062076056,
'Dentist',
    'Cavity Removal;', 'Confirmed', 'Room 113', '2022-05-01', 1100, 1130,
784628391);

INSERT INTO Appointment(Appointment_ID, Branch_ID, Dentist_identifier,
    Appointment_type, Statue, Room_assigned, Appointment_date,
    Start_time, End_time, Patient_ID) VALUES (327657483, 214635515,
'Dentist',
    'Teeth comparing ', 'Confirmed', 'Room 107', '2022-04-20', 1000, 1530,
435435 );

INSERT INTO Appointment(Appointment_ID, Branch_ID, Dentist_identifier,
    Appointment_type, Statue, Room_assigned, Appointment_date,
    Start_time, End_time, Patient_ID) VALUES (55789199, 062076056,
'Dentist',
    'Cavity admiring;', 'Pending', 'Room 102', '2022-05-01', 700, 1030,
345678932 );

CREATE TABLE Appointment_Procedure(
    Appointment_ID BIGINT NOT NULL,
    Patient_ID BIGINT NOT NULL,
    Procedure_code BIGINT NOT NULL,
    Procedure_type VARCHAR(50) NOT NULL,
    Procedure_description VARCHAR(200) NOT NULL,
    Tooth VARCHAR(50),
    Amount_of_procedures BIGINT NOT NULL,
    Total_charge decimal(9,2) NOT NULL DEFAULT '0.00',
    Appointment_date TIMESTAMP NOT NULL,

    FOREIGN KEY(Patient_ID) REFERENCES Patient(Patient_ID),
    FOREIGN KEY(Appointment_ID) REFERENCES Appointment(Appointment_ID)
);

```

```

INSERT INTO Appointment_Procedure(Appointment_ID,Patient_ID ,
Procedure_code, Procedure_type, Procedure_description,
Tooth,Amount_of_procedures, Total_charge, Appointment_date)
VALUES (987654567, 784628391, 35, 'Veneers', 'custom-made
shells of improve appearance',
'2', 1, 1837609.87, '2022-01-19');

INSERT INTO
Appointment_Procedure(Appointment_ID,Patient_ID , Procedure_code,
Procedure_type, Procedure_description,
Tooth,Amount_of_procedures, Total_charge, Appointment_date)
VALUES (55789199, 345678932, 50, 'Test1 type', 'Thsi is just a
random text',
'its ju', 2, 109.87, '2022-08-19');

INSERT INTO
Appointment_Procedure(Appointment_ID,Patient_ID , Procedure_code,
Procedure_type, Procedure_description,
Tooth,Amount_of_procedures, Total_charge, Appointment_date)
VALUES (327657483, 435435, 78, 'Test2 type', 'Thsi is just a
random text 2',
'its ju 2', 5, 109.87, '2022-07-30');

CREATE TABLE Payment(
Bill_ID INTEGER PRIMARY KEY,
Patient_ID INTEGER NOT NULL,
Appointment_ID INTEGER NOT NULL,
Procedure_ID INTEGER NOT NULL,
Patient_charge decimal(9,2) NOT NULL DEFAULT '0.00',
Insurance_charge decimal(9,2) NOT NULL DEFAULT '0.00',
Insurance_claim_ID INTEGER NOT NULL,
Payment_type VARCHAR(20) NOT NULL,
FOREIGN KEY(Appointment_ID) REFERENCES Appointment(Appointment_ID),
FOREIGN KEY(Patient_ID) REFERENCES Patient(Patient_ID)
);

CREATE TABLE Review(
Review_ID BIGINT PRIMARY KEY,

```

```

    Employee_professionalism VARCHAR(100) NOT NULL,
    Valuee VARCHAR(100) NOT NULL,
    Communication VARCHAR(100) NOT NULL,
    Cleanliness VARCHAR(20) NOT NULL,
    Patient_ID BIGINT NOT NULL,
    FOREIGN KEY(Patient_ID) REFERENCES Patient(Patient_ID)
);

INSERT INTO
Review(Review_ID,Employee_professionalism,Valuee,Communication,Cleanliness
,Patient_ID)
VALUES(354546,'siyke
n','spikeofdifjs','gfdgddfgd','dfgdfgdfgdf',784628391);

CREATE TABLE Fee_Charge(
    Fee_charge_ID BIGINT PRIMARY KEY,
    Patient_charge decimal(9,2) NOT NULL,
    Insurance VARCHAR(50) NOT NULL,
    Total_charge decimal(9,2) NOT NULL,

    Appointment_ID INTEGER NOT NULL,
    FOREIGN KEY(Appointment_ID) REFERENCES Appointment(Appointment_ID)
);

INSERT INTO
Fee_Charge(Fee_charge_ID,Patient_charge,Insurance,Total_charge,Appointment
_ID) VALUES
(546546,15445.35,'siyek's',578645.2,987654567);

CREATE TABLE Record(
    Record_ID INTEGER PRIMARY KEY,
    Date_edited DATE NOT NULL,
    Patient_ID INTEGER NOT NULL,
    Progress_note VARCHAR(100) NOT NULL,

```

```

        FOREIGN KEY(Patient_ID) REFERENCES Patient(Patient_ID)
    );

CREATE TABLE Invoice(
    Invoice_ID int PRIMARY KEY,
    Date_of_issue TIMESTAMP NOT NULL,
    Discount decimal(9,2) NOT NULL DEFAULT '0.00',
    Penalty decimal(9,2) NOT NULL DEFAULT '0.00',
    Tax decimal(9,2) NOT NULL DEFAULT '0.00',
    Fee_charge_ID INTEGER NOT NULL,
    FOREIGN KEY(Fee_charge_ID) REFERENCES Fee_Charge(Fee_charge_ID)
);

SELECT * FROM Patient;
SELECT * FROM Employee;
SELECT * FROM Record;
SELECT * FROM Appointment;
SELECT * FROM Appointment_Procedure;

--- triggers, assertions and checks

```