

Bonjour-Santé Clone

An app for booking medical appointments, viewing appointment history
and viewing associated documents.


by

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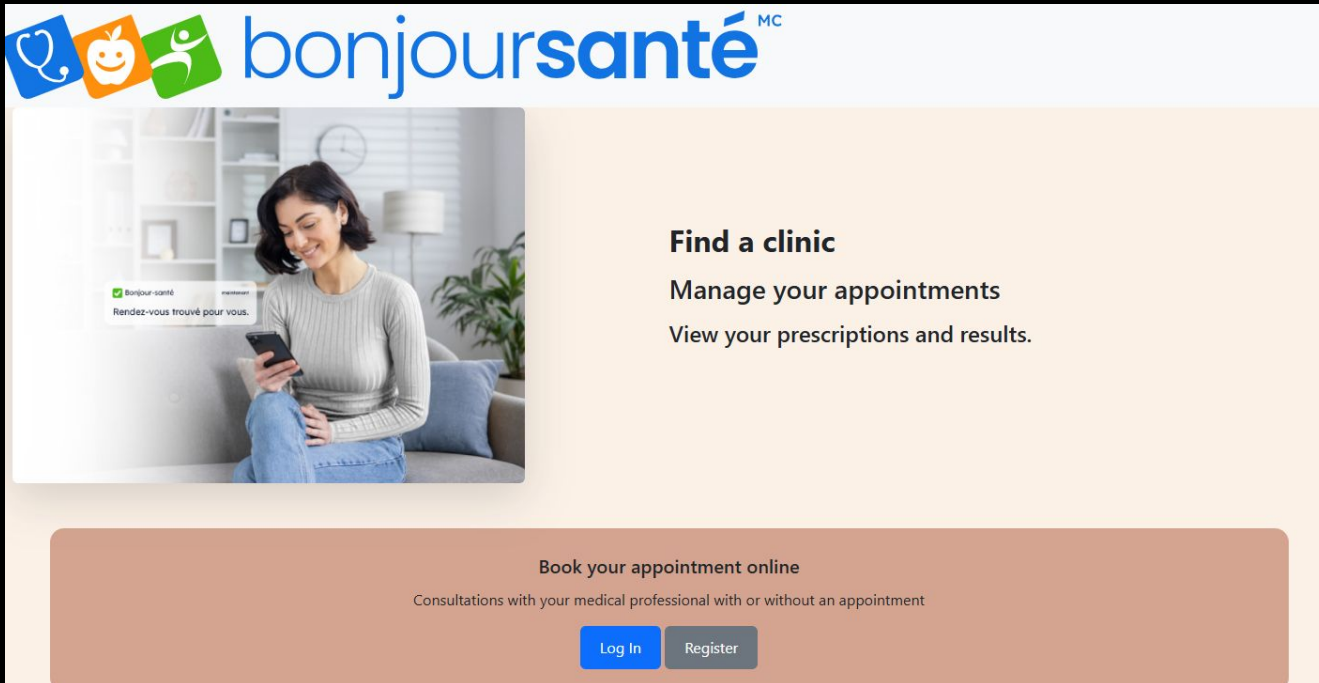
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Background of project

- Most people have used the real  **bonjoursanté**^{MC}
- Ana used Bonjour-Santé as a patient and as a healthcare professional
- Project will look great in a Portfolio
- Fun challenge

Solution overview



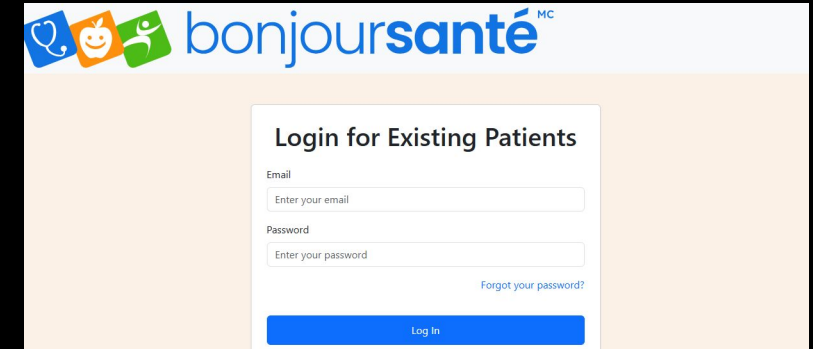
The screenshot shows the homepage of bonjoursanté MC. At the top is the logo with three icons (heart, apple, person) and the text "bonjoursanté MC". Below the logo is a large image of a woman sitting on a couch, looking at her smartphone. To the right of the image, the text reads: "Find a clinic", "Manage your appointments", and "View your prescriptions and results." Below this is a section titled "Book your appointment online" with the subtitle "Consultations with your medical professional with or without an appointment". At the bottom of this section are two buttons: "Log In" and "Register".

bonjoursanté^{MC}

Find a clinic
Manage your appointments
View your prescriptions and results.

Book your appointment online
Consultations with your medical professional with or without an appointment

[Log In](#) [Register](#)



The screenshot shows the login page for bonjoursanté MC. The header features the logo. The main content area is titled "Login for Existing Patients". It contains two input fields: "Email" with the placeholder "Enter your email" and "Password" with the placeholder "Enter your password". Below the password field is a link "Forgot your password?". At the bottom is a blue "Log In" button.

bonjoursanté^{MC}

Login for Existing Patients

Email
Enter your email

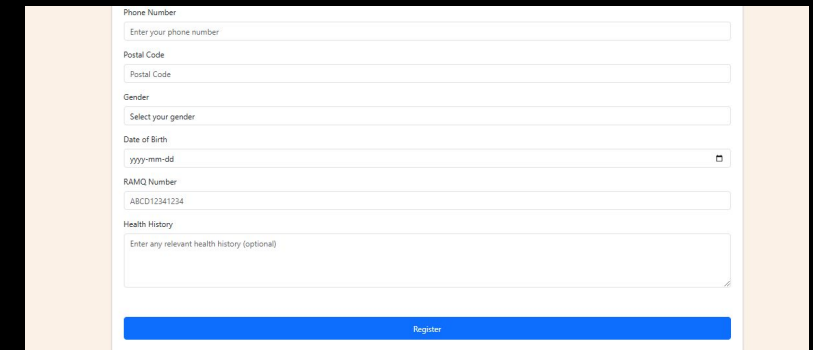
Password
Enter your password

[Forgot your password?](#)

[Log In](#)

Users can log in

Users can register



The screenshot shows the registration page for bonjoursanté MC. The form includes several fields: "Phone Number" (placeholder: "Enter your phone number"), "Postal Code" (placeholder: "Postal Code"), "Gender" (placeholder: "Select your gender"), "Date of Birth" (placeholder: "yyyy-mm-dd" with a calendar icon), "RAMQ Number" (placeholder: "ABCD12341234"), and "Health History" (placeholder: "Enter any relevant health history (optional)"). At the bottom is a blue "Register" button.

Phone Number
Enter your phone number

Postal Code
Postal Code

Gender
Select your gender


Date of Birth
yyyy-mm-dd


RAMQ Number
ABCD12341234

Health History
Enter any relevant health history (optional)

[Register](#)

Solution overview





Search Criteria

Please select your appointment type:

☐ Urgent Appointment

☐ Follow-up

☐ Pregnancy Follow-up

Your postal code:

Select the distance radius:

0 km

70 km

Search for Appointments

Contact us: info@bonjour-sante.com | +123 456 7890

Patients can book appointments

No Appointment Found

Please try different search criteria.

[Return to Patient Profile](#)[Return to Search Criteria](#)

404 - Page Not Found



Please try again later.

Appointment Found

Congratulations! We have found an appointment that fits your criteria.

Appointment Details

Date:

Clinic Name:

Time:

Clinic Address:

Duration:

Doctor:

Type of Appointment:

[Confirm Appointment](#)[Back to Search](#)

Solution overview

Users can view and upload documents

Document Management

Document List

ID	File Name	Type	Upload Date	Actions
1	patient1	text/plain	2025-02-24 16:08:52	View
2	patient1	text/plain	2025-02-24 16:16:31	View
3	patient1	text/plain	2025-02-24 16:24:16	View
4	uploadtest.txt	text/plain	2025-02-24 21:16:24	View
6	labresult1.jpg	image/jpeg	2025-02-24 21:51:32	View
7	radio.jpg	image/jpeg	2025-02-25 09:21:23	View

Add New Document

Title:

File: No file chosen

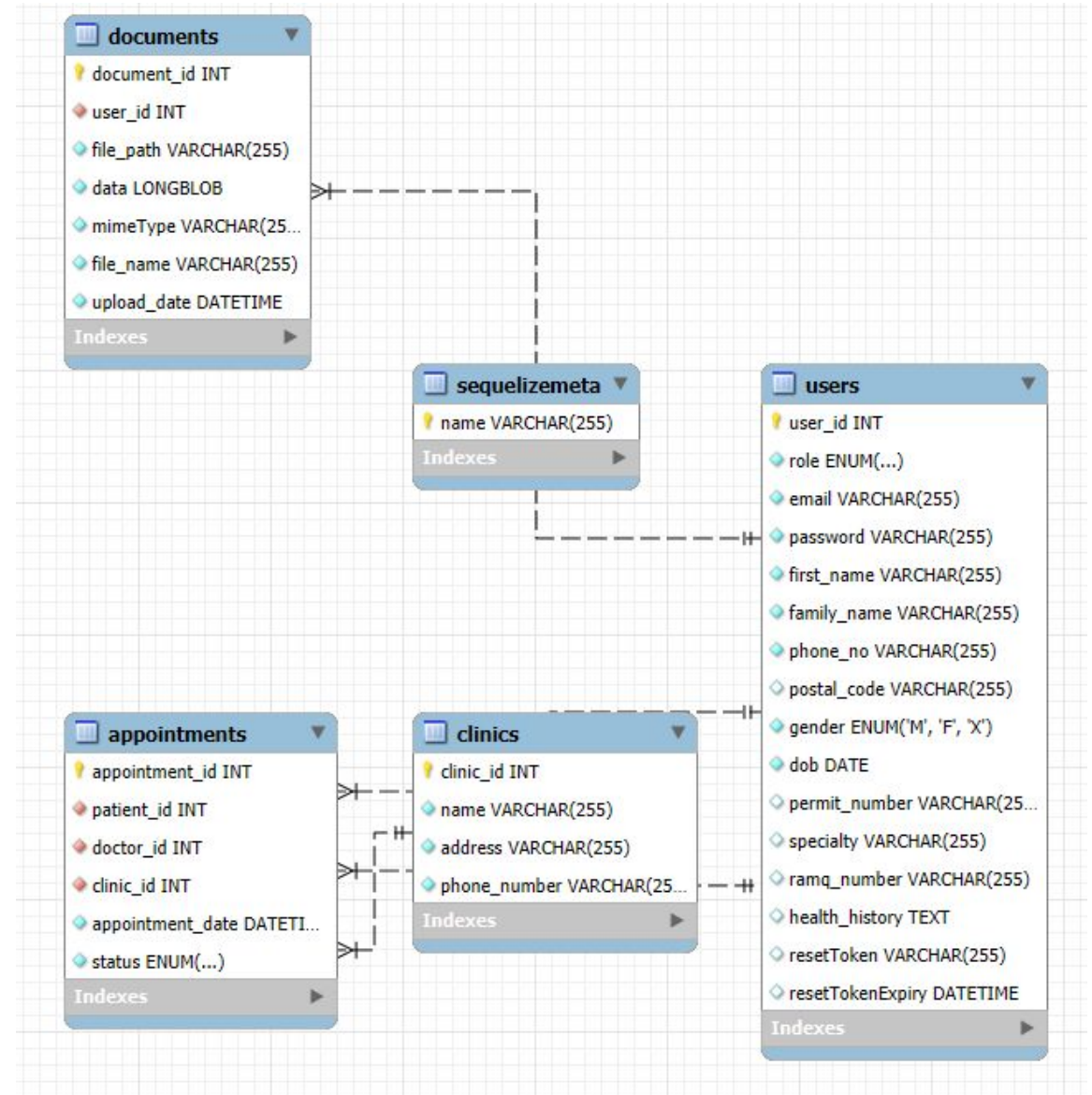
Forgot Password

Enter your email address to reset password.

Email address

User can get password reset

Database structure



Roles



Dang: appointment and clinic management.



Ana: front-end, user login and registration.



Trang: password recovery and documents (BLOB).



Everyone: testing.

Challenges (Dang)

Technologies used: (sessionStorage), mySQL, Sequelize, Postman

- retrieving information for the database to the current session using patient_id
- time discrepancy between MySQL/Postman and Sequelize (?) in VSCode

Future solutions

- try using user_id or email for the functions in the controller, patient_id adds difficulties
- Try to implement moment.js directly



Challenges and Solutions

What we learned (Trang)

Password recovery: nodemailer and mailersend.com

Manage SMTP user

Use your SMTP credentials to send emails, authenticate your account and track data. The SMTP relay is perfect for when you want a quick and easy solution to plug into your website or automation platform, and it's great for personal projects.

Enter your SMTP name

Server

Port

Connection security: TLS

Username

Password

[Reset credentials](#)

Close

Save user

Password Reset

M

MS_2UVJYt@trial-neqvygmq5yz40p7w.mlse
r.net

To: You

Tue 2025

This message was identified as junk. We'll delete it after 30 days.

It's not junk

Show blocked content

You requested a password reset

Click this [link](#) to reset your password

This link will expire in 1 hour

Reply

Forward

What we learned (Trang)

[SMTP transport :: Nodemailer](#)

```
// Create a transporter using MailerSend's SMTP settings
const transporter = nodemailer.createTransport({
  host: 'smtp.mailersend.net',
  port: 587,
  secure: false, // Use STARTTLS
  auth: {
    user: 'MS_2UVJYt@trial-neqvygmq5yz40p7w.mlsender.net',
    pass: 'mssp.gBFbqod.z3m5jgrqme0ldpyo.vOP1bcw'
  },
  tls: {
    ciphers: 'SSLv3',
    rejectUnauthorized: false
  },
  connectionTimeout: 30000, // 30 seconds
  greetingTimeout: 30000, // 30 seconds
});
```

What we learned (Ana)

Interesting technologies used:

Challenge: Encrypting the password without using <https://> (SSL/TSL certif)

Solution: npm install bcrypt




Upside: Easy to use

Downside: Need to do password recovery if password forgotten

```
const bcrypt = require('bcryptjs');
```

```
// comparing hashed password with input password
if (user) {
  const isValid = await bcrypt.compare(password, user.password);

  if (isValid) {
    res.status(200).json({ message: 'Login successful', user });
  } else {
    res.status(400).json({ error: 'Invalid email or password' });
  }
} else {
  res.status(400).json({ error: 'Invalid email or password' });
}
```

Result Grid		 Filter Rows:	Edit:		 Export/Import:	Wrap Cell Content: 	
	user_id	role	email	password	first_name	family_name	ph
▶	1	Doctor	danghuynh98@gmail.com	passwordhash	Bob	Barrymore	123
	2	Doctor	doctoroo@example.com	\$2b\$10\$.FVfPvNgUcGbubvuiFhH.p6XBaSRx9t...	Olive	Olivee	123
	100	Patient	trang.mt20@gmail.com	Asdf1234	Trang	Trieu	123
	101	Patient	patientjj@example.com	\$2b\$10\$/CD14iN7fSuoJ7cLptziQ.QFIVxGE7bPa....	Janelle	Joliette	987
	102	Patient	patientACDA@example.com	\$2b\$10\$FgsrTrBCJYFpw.zbxD5GKexWe1spZpA...	Antoine-Charles	D'Artagnan	999
	104	Doctor	doctor000@example.com	\$2b\$10\$r6Xaa6rciYwmtvrlVH5mDOqx6mLUN.LEl...	Doc	Martens	555
	105	Doctor	doctorri@example.com	\$2b\$10\$WqHwTnMcNDvzk0TvR4a0QVVF1v4hC...	Rosa	Tonescu	987

What we learned (Ana)

Interesting technologies used: **Sequelize CLI**

Version: v7 - alpha

Challenge: Updating a table with Sequelize instead of MySQL

Solution: Migrate a table.

Upside: Ensures coherent data structure across full project.

Downside: None.

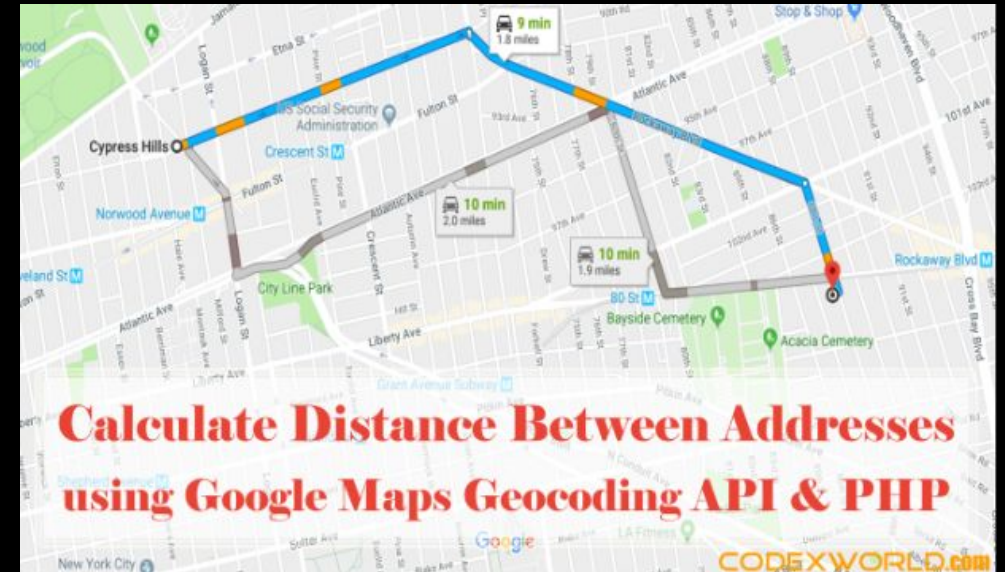
```
migrations > JS 20250224114805-create-users-table.js > ...
1  'use strict';
2
3  /** @type {import('sequelize-cli').Migration} */
4  module.exports = {
5    async up (queryInterface, Sequelize) {
6      await queryInterface.createTable('Users', {
7        user_id: {
8          type: Sequelize.INTEGER,
9          primaryKey: true,
10         autoIncrement: true,
11       },
12       role: {
13         type: Sequelize.ENUM('Doctor', 'Patient'),
14         allowNull: false,
15       },
16       email: {
17         type: Sequelize.STRING,
18         allowNull: false,
```

```
        timestamps: false,
      });
    },
    down: async (queryInterface, Sequelize) => {
      await queryInterface.dropTable('Users');
    },
  };
};
```

Future work (1 slide)

Extra features from the proposal:

- Distance calculation between patient and clinics



What could be done with one extra week:

- Storing all images on cloud (instead of MySQL and HTML)
- Improving doctor's GUI and adding more roles (sysadmin, nurse, statistician, etc.)
- Improved medical history (allergies, medication, summary of past visits)
- Linking with patient pharmacy, sending Rx by email/fax

Summary (1 page)

We built a Bonjour Sante clone website with booking system.

Users can register, login and view their profile.

Users can view and update documents.

A list of past/future appointments can be seen.

Appointments can be booked and deleted.

Some features are missing/not completed.

Each feature functions while being loosely connected to each other.

Thank you for listening

Enjoy spring break!