Relational Database Architecture

Database Design Concept

🏥 Hospital/clinic management

Identification of the function of the service.

In this case, it's Hospital/clinic Management. Patients should be able to book an appointment, cancel, view available dates, search for doctors' information, or find services available by hospital/clinic.

Identification of entities

Doctors		
Specialisation		
Patients		
Appointments		
Canceled appointments		

Define the attributes relationships   Building

Doctor

Doctor_id	SERIAL	PRIMARY KEY
Doctor_name	VARCHAR(50)	NOT NULL
Doctor_specialisation	VARCHAR(50)	NOT NULL
Password_hash	VARCHAR(255)	NOT NULL
email	VARCHAR(100)	UNIQUE, NOT NULL

Specialisation

Specialisation_id	SERIAL	PRIMARY KEY
Specialisation_name	VARCHAR(50)	NOT NULL

Patient

Patient_id	SERIAL	PRIMARY KEY
Patient_name	VARCHAR(50)	NOT NULL
Password_hash	VARCHAR(255)	NOT NULL
email	VARCHAR(100)	UNIQUE, NOT NULL

Appointment

Appointment_id	SERIAL	PRIMARY KEY
Patient_id	INTEGER	FOREIGN KEY
Doctor_id	INTEGER	FOREIGN KEY
Created_date	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP
Appointment_day	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP
Appointment_canceled_date	BIGINT	??? not sure about this one
Comments	VARCHAR(450)	

Creating a diagram using https://app.chartdb.io/d/ff8d83d920d6