Patient Self-Registration:

The patient visits the medical practice's website or application.

They navigate to the registration page or create an account section.

The patient provides the required information, such as their name, email address, password, and any additional details requested by the registration form.

Upon submission, the patient's registration details are sent to the backend of the application for processing.

Backend Processing:

The backend server receives the registration details from the patient.

The server creates a new entry in the User table to store the patient's account information.

The server generates a unique user\_id for the patient and stores it along with their registration details.

The server triggers an email verification process to verify the patient's email address. This typically involves sending a verification link to the provided email address.

Verification and Confirmation:

The patient receives an email containing the verification link.

The patient clicks on the verification link, which takes them to a verification page or confirms their email address directly.

The server validates the verification link and marks the patient's email address as verified in the User table.

Patient-Practice Association:

Once the patient's email is verified, they can log in to their account using the provided credentials.

After logging in, the patient can navigate to their profile or account settings.

Within the account settings, the patient can select or indicate their association with a specific medical practice.

The patient can choose the relevant medical practice from a list of available practices or enter the necessary details to specify their affiliation.

The server processes the association request and creates a new entry in the Patient-Practice Association table, linking the patient's user\_id with the practice\_id of the chosen medical practice.

By following this workflow, the medical practice can know that a patient has self-registered by:

Monitoring the registration process on their website or application.

Receiving notification emails or system alerts when a new patient successfully completes the registration and email verification steps.

Querying the Patient-Practice Association table to determine which patients are associated with their medical practice based on the created associations.

This allows the medical practice to have visibility into patients who have self-registered and their affiliation with the practice, enabling appropriate communication and access to services.

Remember to implement necessary security measures, such as email verification and appropriate authentication mechanisms, to ensure the integrity and confidentiality of patient accounts and data.