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4.1 Demographics module
4.1.1 Front-end
This is the part where front view of the demographics module of patient is developed this contains various patient details to be filled. The module is divided into four parts. First and second part is visible in the figure 4.1 . First part contains information like first name, last name, Sex, DOB, Language preference, status, mantal Status, race , payment details etc.
The Second part is contact details of patient. Patient can have home, office, or other type of address. In that part also he can have primary address. In the address section the details like street, zip, city, state, country ,phone number, fax number as per the figure 4.1.

Fig. 4.1 Demographicswebview(1)

The third part is contact preference section, here primary fax number, phone number and address will be taken as per figure 4.3.
And at the last other details like employment of patient parent details, birth place, religion etc will be asked which is shown in the figure 4.2.

Fig. 4.2 Demographicswebview(2)

4.1.2 Back-end
4.1.2.1 Operational Tables
Total four APIs were created. All of them accesses patient , allergy and patientallergy tables as per the figure 4.3 . The figure 4.3 presents the part of database that will be required by the APIs.

Fig. 4.3 operationaltables

4.1.2.2 APIs
4.1.2.2.1 Create patient with allergy
This API will create a new patient with all the provided details like firstname, lastname, sexid, dob etc. along with that if the optional allergy details are provided then that is also created in the database. The response contains patient details and

allergies that were sent for creation which is visible in the figure 4.4.

Fig. 4.4 Create patient with allergy

4.1.2.2.2 Update patient with allergy

As per the figure 4.5, this API will update old patient with all the provided details like firstname, lastname, sexid, dob etc. along with that if the optional allergy details are provided then the allergy will be deleted , created or updated based on the request. The response contains patient details and allergies that were sent for creation, updation or deletion.

Fig 4.5 Update patient with allergy

4.1.2.2.3 Get patient by id

This API requires patientid as parameter along with that sex, allergy, createdby, getdb, patient object as optional flags. The main task of this API is to get patient's information and corresponding allergies. All the optional flags are to get corresponding information only if they are true. If the patient object is true then all the information of the patient will be returned on success. The details are shown in the figure 4.6.

Fig. 4.6 Get patient details by id

4.1.2.2.4 Delete patient with allergy

This API requires patientid in the request body . The main task of this API is to delete patient's information and corresponding allergies. On success the given patient related data will be deleted and success will be returned in the response which can be seen by the figure 4.7.

Fig. 4.7 Delete patient with allergy

4.2 Check-In/Check Out module

4.2.1 Front-end

The figure 4.8 presents the view of check in and check out of any patient in particular clinic during the visit of the patient. Whenever any patient arrives at the clinic for the appointment, he/she is added to the first section called appointment which is the first panel across the all panels as per the figure 4.8. Basic information of the patient can be viewed from here. Once the patient is entered in the clinic the arrival time is noted for the reference. From the first panel the patient can be shifted towards the other panel like waiting or in progress or rooms or checkout etc. as per other panels in the figure 4.8. At any instance some patient may be in arrival section and other patient in the waiting section some may with the provider in any room taking his/her treatment. Those who are completed with their treatment are shifted to checkout panel. The entire view can be visible in terms of panel and grid.

Fig. 4.8 CheckIn/CheckOut screen

The status of the patient can be controlled by the front desk manager by using the following menu. From here the manager can ask patients to fill forms as shown in figure 4.9. Various Insurance plans that the patient have is available to see. Also the amount of time that patient has taken in the clinic and visit status of the patient like waiting or checkout and many more can be monitored and edited as shown in the figure 4.9.

Fig. 4.9 Appointment Details

Appointment status can be tracked and edited for example the patient who has just arrived will be in patient arrived status which further can be changed to waiting area or in a room with MA. This screen is reached from the figure 4.9. From this screen the front desk manager can also assign a patient with the room number in which the treatment will be going on and also the resources like room,waiting area , x-ray machine etc.,this is displayed in the right section of the screen in the figure 4.10.

Fig. 4.10 Update Appointment

4.3 Employee Availability module

4.3.1 Front-end

The main functionality of this page is to schedule the presence of the employee so that the availability of the person can be known for the patient treatment related services where the employee can be doctor or lab assistant or frontdesk manager. The doctor can add a start date and end date , day name , template and days of the month. For example a doctor will come on all Fridays during 06/01/2023 until a month during that period he/she will be providing a specific facility(FAC2) from 8 am to 5 am as shown in the second last row in the figure 4.11. The item can be edited or deleted. Template is nothing but the time structure in which the patient will be called to the doctor between the start time and end time. The entire record can be overridden and in