Welcome to **KaribuCare**, an online drug dispensing clinic. Our focus is helping patients receive medical attention by offering the drugs they need conveniently with the tap of a button.

The following entities will be interacting with our system: patients who send their prescriptions or request for prescriptions and receive their drugs, doctors who validate the patients' prescriptions or give prescriptions, pharmaceutical companies which manufacture the drugs, and pharmacies which provide the drugs in question.

To provide a more elaborate description of our entities, we described their fields below:

1) **Patients Table** - Patient_SSN(national ID), Patient_Name, Doctor_SSN, Patient_Phone, Patient_Email, Patient_Address, DOB(age will be calculated), Gender, Med_Allergies
2) **Drugs Table** - Drug_ID, Drug_Name, PC_Name
3) **Patient History Table** - Patient_SSN, Drug ID, Order Date
4) **Doctors Table** - Doctor_SSN, Doctor_Name, Doctor_Email, Doctor_Phone, Specialty, Years_of_experience
5) **Pharmaceutical Company Table** - PC_ID, PC_Name, PC_Phone, PC_Address, PC_Email
6) **Pharmacy Table** - Pharmacy_ID, Pharmacy_Name, Pharmacy_Phone, Drug_ID, Drug_Price
7) **Contract Table** - Supervisor_ID, Supervisor_Name, PC_ID, Pharmacy_ID, StartDate, EndDate, contract_description

Program Flow

Step 1: Sign Up or Login - The person will choose to interact with the system either as a doctor or a patient. They will input all the required information as per their entity descriptions(signing up) or just key in their SSN(National ID) and password details(login).

Step 2: Receive and validate prescriptions - The patient will be required to send a clear photo of their doctor's prescription. The validation procedure confirms that their prescription is not more than six months old and that the hospital they got it from is legitimate(original prescription document with doctor's signature and hospital stamp). Furthermore, the drugs indicated as well as their dosage and whether refills are allowed are recorded.

Step 3: Preparation of drugs - The prescription is studied and the required drugs packed and well-labelled with the patient's details and a clear description of the dosage.

Step 4: Checkout and delivery - After cross-checking the patient's details and prescription, the drugs are delivered to the patient's address after confirmation of payment.

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