**DBMS Project**

**Key Milestone I: Conceptual Schema**



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“On my honor, as a student of the University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work.”

Submitted to:

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**Entity Description:**

1. **Clinic:** A place where a doctor can treat patients and the doctor can have the other staff like nurses, clinic manager, etc to run the clinic.
2. **Manager**: A person that manages the clinic’s rules and regulations.
3. **Doctor**: A person who treats the patients in the clinic.
4. **Nurse**: A person who takes care of a patient under the influence of the doctor in the clinic.
5. **Receptionist**: A person who takes appointments.
6. **Patient**: The patient is a customer who needs treatment from the doctor. For that

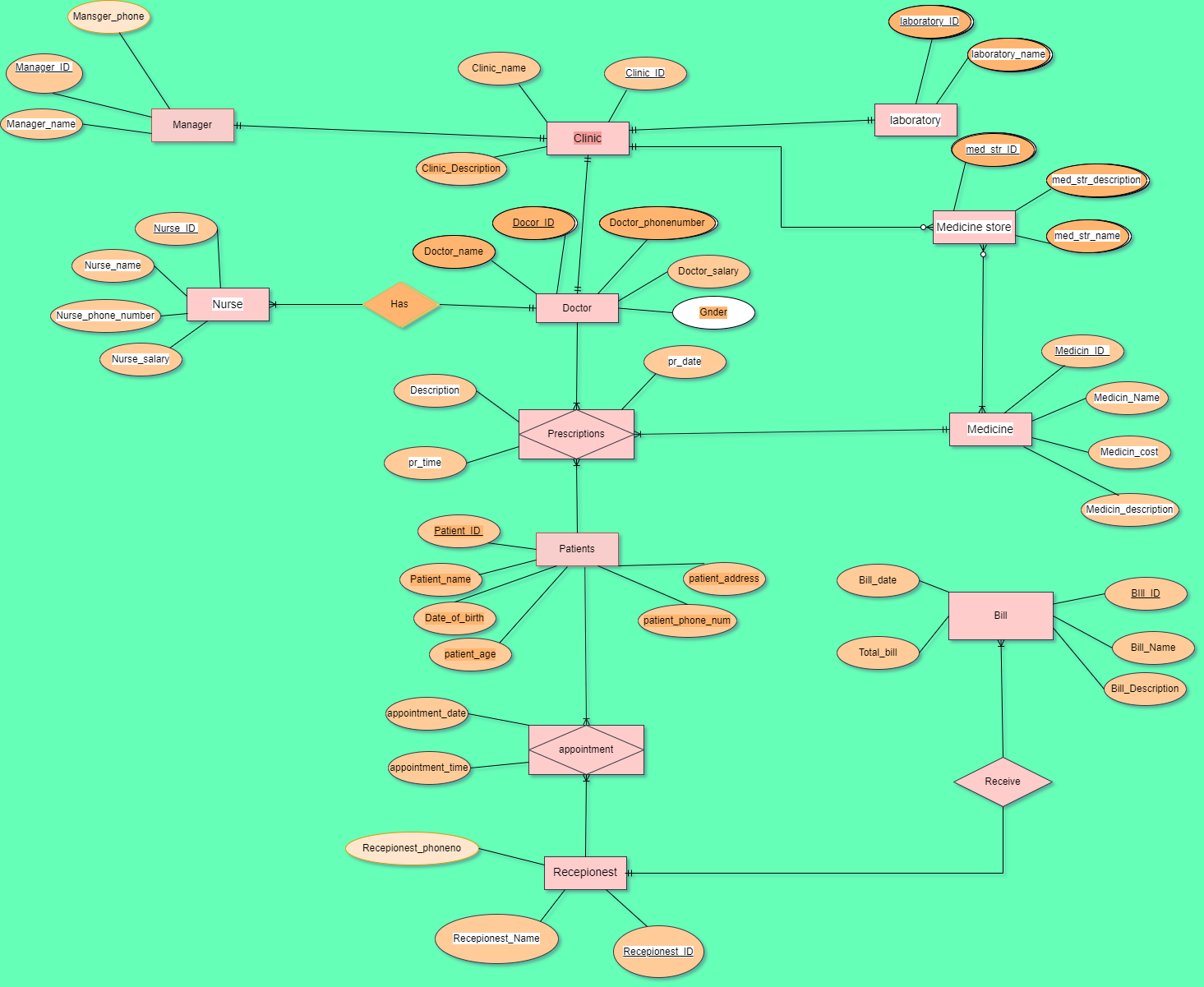
Patient needs to make an appointment from the receptionist.

1. **Medicine store**: The store in a clinic is a place where a patient’s medicines and other treatment types of equipment are stored.
2. **Prescriptions:** The instruction given by the doctor to the patients. These may include medicine prescriptions or some food prescriptions.
3. **Laboratory:** This is a room in the clinic where scientific experiments are taken for the checkups of the patients.
4. **Appointment:** in appointment the date is define on which patient will visit Doctor.
5. **Medicine:** it is dose given by doctor to pateient.

**Detailed Business Rules:**

1. A **CLINIC** must have one **MANAGER** who can manage the different functionality of the **CLINIC**. Similarly, a **MANAGER** can only manage a single **CLINIC**.
2. A **CLINIC** must have only one **LABORATORY**. Similarly one **LABORATOR** must belong to only one **CLINIC**.
3. A **DOCTOR** will belong to only one clinic similarly a **CLINIC** will have one **DOCTOR**.
4. A DOCTOR must have one or many **NURSES** to serve his **PATIENT**. But one **NURSE** can work only with one **DOCTOR**.
5. A **DOCTOR** must have one or many **PRESCRIPTIONS** for a **PATIENT**. A **PATIENT** must have one or many **PRESCRIPTIONS**. From this it is cleared that A **DOCTOR** can treat one or many **PATIENTS**. Similarly One **PATIENT** can visit a **DOCTOR** more than one time.
6. A **CLINIC** may have many or no **MEDICINE STORE** but one **MEDICINE STORE** must belong to only one clinic.
7. A **MEDICINE STORE** may have one or many **MEDICINE** but a **MEDICINE** may be available in many **MEDICINE STORE** or may not be available in even a single **MEDICINE STORE.**
8. A **MEDICINE** may have one or many **PRESCRIPTIONS** but one **PRESCRIPTION** must be for one **MEDICINE** only**.**
9. A **RECEPTIONIST** can give many **appointments** to many **PATIENTS** but one **PATIENT** can visit the **RECEPTIONIST** many times or can take many **appointments**.
10. A **RECEPTIONIST** can **receive** one or many **BILLS** but each **BILL** must be received by one **RECEPTIONIST**.

**Entity Relationship Diagram (ERD):**

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