E-Seba Management System

This database project provides a platform for users to access medical services and products online. It includes online doctor appointments, medical accessory sales, and emergency services such as ambulances, and available blood in hospitals or ICU's. Users can easily schedule appointments, purchase medical accessories, and access emergency services through a user-friendly interface. The project aims to simplify the process of accessing medical services and products by storing all necessary data securely and efficiently. This ER model is designed to represent a database for an online healthcare platform that includes entities such as User, Doctor, Appointment, Medical Accessory, Hospital, Ambulance, and Roles with their respective attributes. The relationships between these entities are also represented using one-to-many and many-to-many relationship tables. This can be used by developers to implement the database and understand the data model of the healthcare platform.

Entities:

1. **Hospital:** This entity holds all the information of a hospital.
2. **Ambulance:** This shows all the information and availability of an ambulance.
3. **Users:** This holds information all about users of this database.
4. **Role:** This entity indicates which roles is assigned to which user and their details.
5. **Doctor:** This entity stores information about doctors in the system.
6. **Appointment:** This entity shows appointment details of our users.
7. **Medical Accessories:** This holds medical accessories information.

Entities and their *Relationships* (Cardinality)

- A Hospital can hold multiple Users and a User can be admitted to multiple hospitals.
    - **Hospital-User(M:N)** is *Admit*
- A User can get multiple appointments but an appointment can be assigned to one User

    - **User-Appointment(1:N)** in *Search*
- A Doctor can be assigned to multiple Appointments but an appointment can be assigned to one doctor.
    - **Doctor-Appointment(1:N)** is *Grant*
- A Role can hold multiple Users and a User can be admitted to multiple roles.
    - **Roles-User(M:N)** is *Access*
- A Medical item can be bought by multiple Users and a User can get multiple Medical Accessories.
    - **Medical Accessories-User(M:N)** is *Buys*
- A User can call many Ambulances and an Ambulance is able get to multiple users.
    - **Ambulance-User(M:N)** is *Takes*
- A Hospital can hold multiple Ambulances and an Ambulance can get to multiple Hospitals.
    - **Hospital-Ambulance(M:N)** is *Goes*

Attributes(<u>key</u>):

- **User:** (<u>u_id</u>, u_name, u_age, u_email, u_address, u_gender, u_mobile)
- **Ambulence:** (<u>a_id</u>, a_type, a_cost, a_location, a_status, a_number,

  driver_id references to [User] u_id)

- **Roles**: (<u>r_id</u>, r_name, r_description, r_permission)
- **Hospital**: (<u>h_id</u>, h_name, h_location, h_phone, h_icuStatus, h_bloodGroup1, h_bloodGroup2, h_bloodGroup3, h_cost)
- **Medical Accessories**: (<u>acc_id</u>, acc_name, acc_type, acc_cost, acc_count, seller_id)
- **Doctor**: (<u>d_id</u>, d_speciality, d_status, d_location, d_cost, d_days, d_startTime, d_endTime, d_rating)
- **Appointment**: (<u>app_id</u>, app_type, app_time, indv_rating,

  u_id references to [User] u_id ,

  d_id references to [Doctor] d_id)