**XAMPP Stamps Project Entity Relationship Diagram**



**Database Schema**

**Patient**: Patient\_ID (PK), PL\_name, PF\_Name, DOB, P\_Phone, P\_Email

**Admission**: Admission\_ID (PK), Patient\_ID (FK), EContact\_ID (FK), ADoctor\_ID (FK), Admit\_Date, Discharge\_Date

**Emergency\_Contact**: EContact\_ID (PK), EF\_Name, EL\_Name, E\_Phone, E\_Email, Relationship

**Doctor**: Doctor\_ID (PK), Department\_ID (FK), DF\_Name, DL\_Name

**Doctor\_Specialty**: D\_SID (PK), Specialty\_ID (FK), Doctor\_ID (FK)

**Specialty**: Specialty\_ID (PK), S\_Name

**Department**: Department\_ID (PK), Head\_Doctor\_ID (FK), Dept\_Name, Bldg\_Name, Floor

**Treatment**: Treatment\_ID (PK), T\_Description

**Admission\_Treatments**: A\_TID (PK), Treatment\_ID (FK), Admission\_ID (FK), TDoctor\_id (FK), T\_Date

**Assumptions**

1. Patients cannot exist in the database without their first admission. So, each admission is associated with 1 and only 1 patient, but a patient must have 1 or more admissions.
2. For each admission, only one doctor is responsible for the patient during their entire admission.
3. Each doctor can perform 1 or more treatments. Each treatment has only 1 doctor who is responsible.
4. Each doctor can have any number of specialties. Every doctor has at least one specialty.
5. Each Head\_Doctor can only be the head doctor of one department.
6. Each department must have at least one doctor.