1. **Assumptions**
   1. **Blood Bank**

This entity contains Sate,City and BloodBankId where theprimary key is BloodBankId. This holds the information about the Blood Banks in the State.

**1.2 Equipments**

Equipments contains Remarks , DateOfPurchase , MaintenanceDue , EquipmentId as primary key, EquipmentName , BloodBankID as foreign key from BloodBank entity. Keeps the Logs of Equipments.

**1.3 Donor**

Donor holds the information about the Donor. Details such as Name, gender, BloodGroup, DOB, DonationTime, DonationDate, City, PhoneNO, BloodBankId as foreign key from BloodBank entity and DonorID which is the primary.

**1.4 Blood**

Information about a particular Donor’s Blood. Blood entity holds the BloodGroup, Quantity , Donor ID . Here all three attributes combine to form the primary key.

**1.5 Employee**

Employee entity displays any details of all the employees . Details such as Name, EmployeeID , Email , Salary , JoiningDate , BloodBankId. EmployeeId is the Primary key.

**1.6 EmployeePhone**

Holds the Phone Numbers of all the Employees and serves the purpose of a multi valued attribute. Holds EmployeeId and PhoneNo, Both EmployeeId and PhoneNo combined are the primary key.

**1.7 Hospital**

Holds details of the Hospitals. The attributes are HospitalId as primary key , Name, Street, City.

**1.8 Patient**

This entity holds the information of each Patient. It contains PatientID as primary key, HospitalID, Name, DOB , BloodGroup , Gender , HouseNo , Street, State, City , DateOfReceiving, BloodBankId, AdmissionTime , Discharge Time .

**1.9 Volunteer**

Volunteers volunteering for Service in a particular blood bank. Holds VolunteerID as primary Key, Name , email, ServiceStart , ServiceEnd.

**1.10 VolunteerPhone**

Contains Phone Numbers of Volunteers and serves the purpose of Multi-valued attribute. Holds VolunteerID as foreign Key and PhoneNo. Here VolunteerId and PhoneNo together act as the Primary Key.