

**JAYPEE INSTITUTE OF INFORMATION
TECHNOLOGY , NOIDA - 62**

SYNOPSIS - B11

**ONLINE BLOOD BANK RECORDING
SYSTEM**

TEAM MEMBERS :-

1. RHYTHM SRIVASTAVA 21103234
2. SRISHTI GARG 21103227
3. KAMAL GARG 21103231
4. HIMANSHU DIXIT 21103262

ABSTRACT

This project is aimed to developing an online Blood Donation Information. The entire project has been developed keeping in view of the distributed client server computing technology, in mind. The Blood Donation Agent is to create an e-Information about the donor and organization that are related to donating the blood. Through this application any person who is interested in donating the blood can register himself in the same way if any organization wants to register itself with this site that can also register. Moreover if any general consumer wants to make request blood online he can also take the help of this site. Admin is the main authority who can do addition, deletion, and modification if required.

The project has been planned to be having the view of distributed architecture, with centralized storage of the database. The application for the storage of the data has been planned. Using the constructs of MS-SQL Server and all the user interfaces have been designed using the ASP.Net technologies. The database connectivity is planned using the "SQL Connection" methodology. The standards of security and data protective mechanism have been given a big choice for proper usage. The application takes care of different modules and their associated reports, which are produced as per the applicable strategies and standards that are put forwarded by the administrative staff.

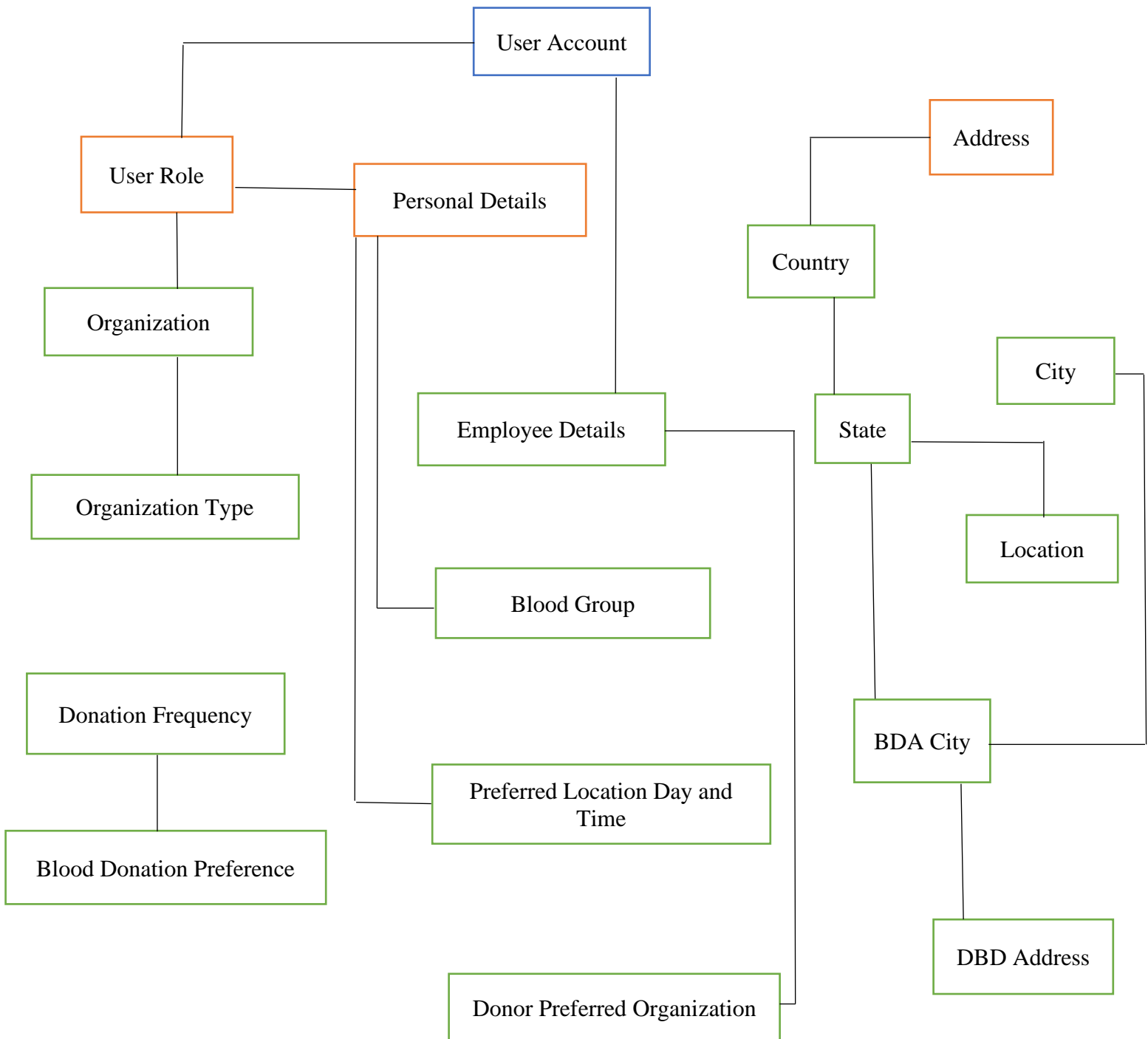
The entire project has been developed keeping in view of the distributed client server computing technology, in mind. The specification has been normalized up to 3NF to eliminate all the anomalies that may arise due to the database transaction that are executed by the general users and the organizational administration. The user interfaces are browser specific to give distributed accessibility for the overall system. The internal database has been selected as MS-SQL server 2000. The basic constructs of table spaces, clusters and indexes have been exploited to provide higher consistency and reliability for the data storage. The MS-SQL server 2000 was a choice as it provides the constructs of high-level reliability and security. The total front end was dominated using the ASP.Net technologies. At all proper levels high care was taken to check that the system manages the data consistency with proper business rules or validations. The database

connectivity was planned using the latest “SQL Connection” technology provided by Microsoft Corporation. The authentication and authorization was crosschecked at all the relevant stages. The user level accessibility has been restricted into two zones namely.

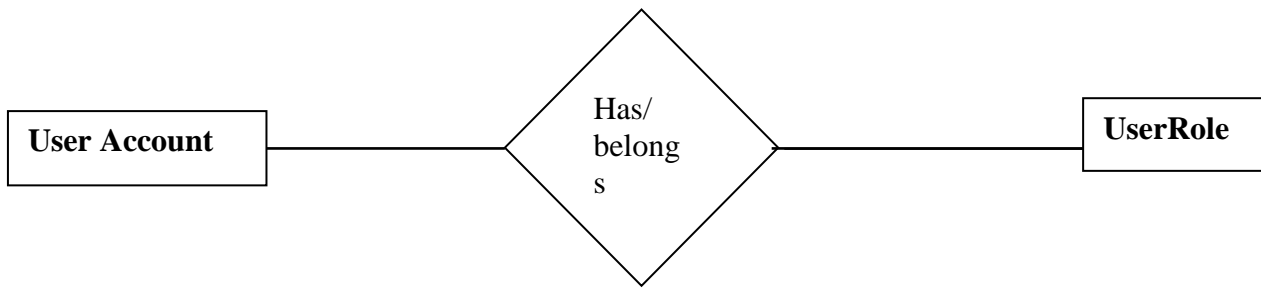
PROJECT OVERVIEW

The Blood Donation Agent is to create an e-Information about the donor and organization that are related to donating the blood. Through this application any person who is interested in donating the blood can register himself in the same way if any organization wants to register itself with this site that can also register. Moreover if any general consumer wants to make request blood online he can also take the help of this site. Admin is the main authority who can do addition, deletion, and modification if required.

ER DIAGRAMS



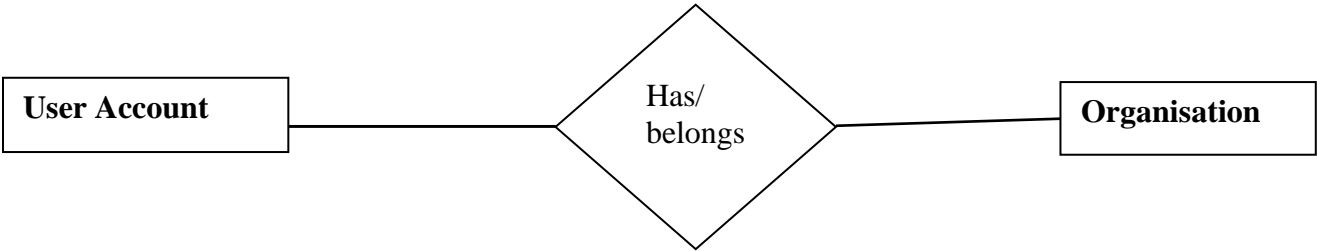
ER diagram for User Account and Users



UserAccount
AccountID
Username
Password
UserDesc
HintQuestion
Answer
RoleID

UserRole
RoleID
RoleName
RoleDesc
Active

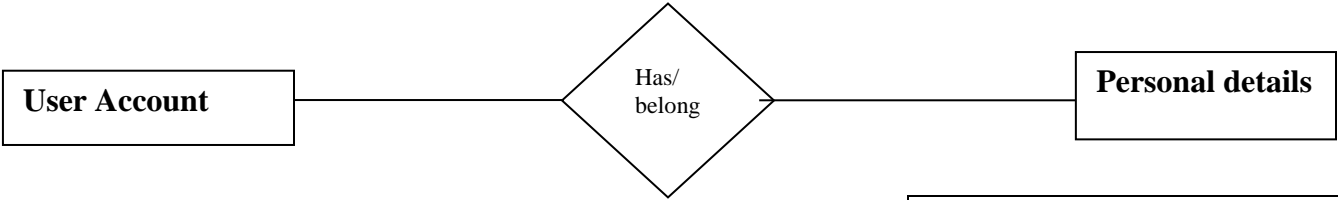
ER diagram for User Account and Organisation



UserAccount
AccountID
Username
Password
UserDesc
Hint Question
Answer
RoleID

Organisation
OrgID
OrgName
OrgType
Email
OrgAddrID
OrgImageURL
OrgDescription
ContactNo
MobileNo
Active
Comment

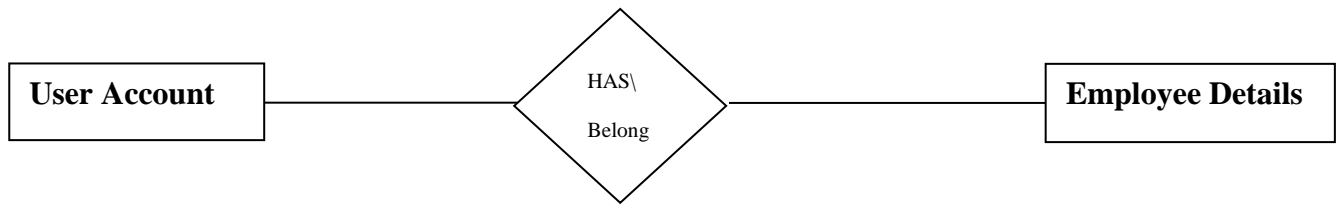
ER diagram for Users Account and Personal Details



UserAccount
AccountID
Username
Password
UserDesc
HintQuestion
Answer
RoleID

Personal Details
First Name
Email
DOB
Weight
Gender
ImageURL
BloodGroupID
BloodType
BloodType
AddressID
ContactNo_Office
ContactNo_Residence
MobileNo
Active
MiddleName

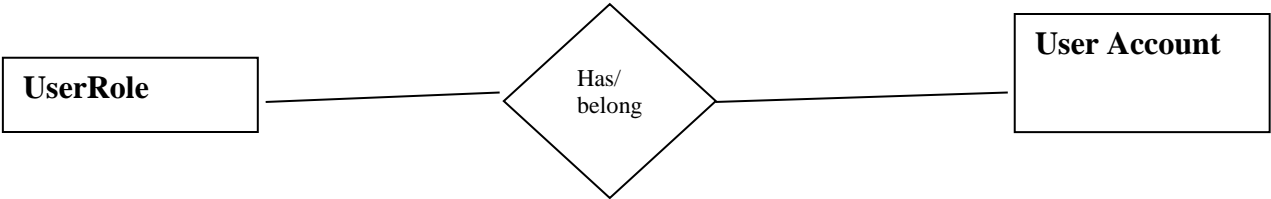
ER diagram for User Account and Employee Details



User Account
AccountID
Username
Password
User Desc
Hint Question
Answer
Role ID

Employee Details
Emp Id
Name
Address
Phone
Email
Active

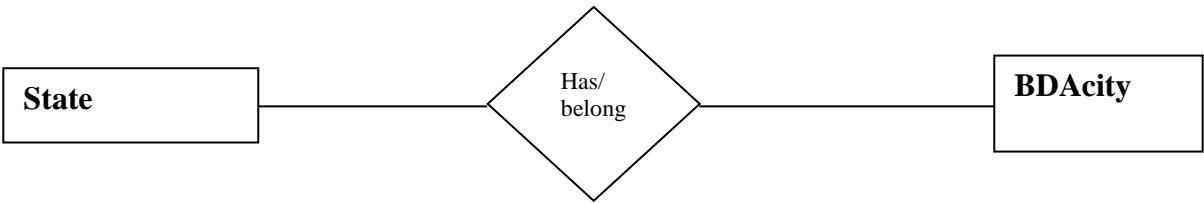
ER diagram for User Role and Blood User account



UserRole
RoleID
RoleName
RoleDesc
Active

User Account
AccountID
Username
Password
User Desc
Hint Question
Answer
Role ID

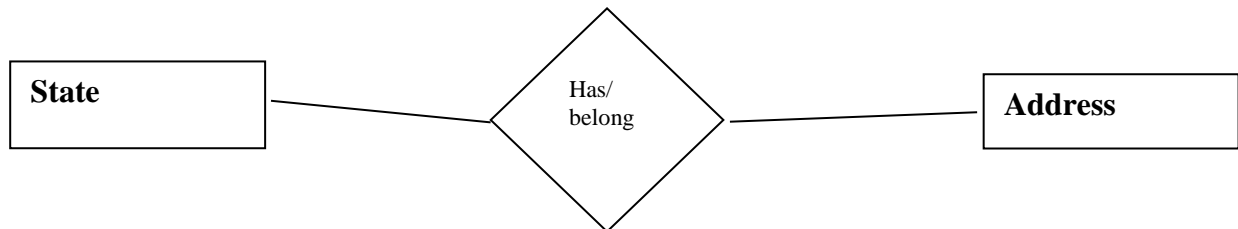
Diagram for State and BDA City



BDAState
StateID
StateName
StateCode
StateDesc
CountryID
Active

BDAcity
CityID
CityName
CityDesc
CityCode
StateID
Active

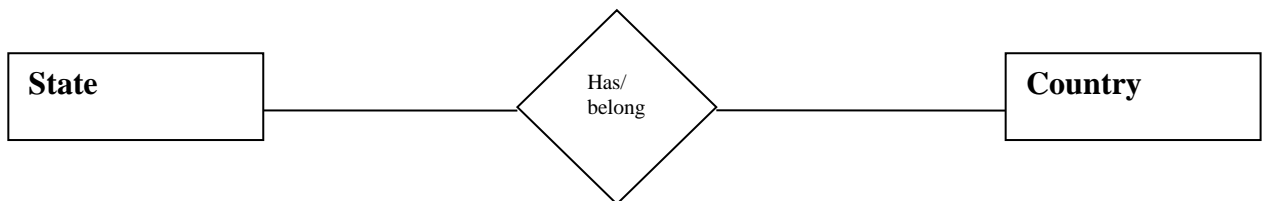
ER diagram for State and Address



BDASState
StateID
StateName
StateCode
StateDesc
CountryID
Active

dBDA_Address
AddressID
AddressLine1
LocationID
CityID
StateID
CountryID
CountryID
Zipcode
Active

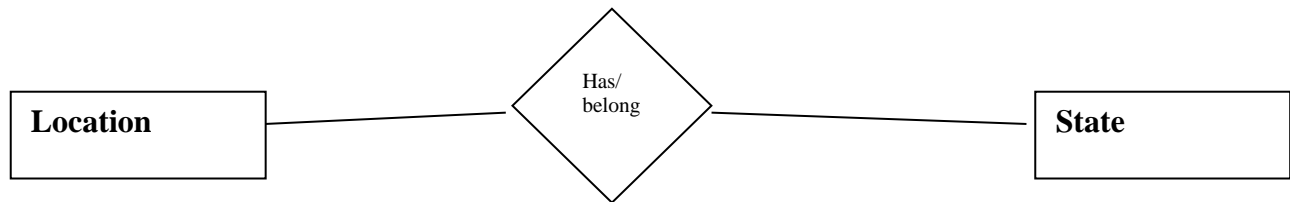
ER diagram for State and Country



BDASState
StateID
StateName
StateCode
StateDesc
CountryID
Active

Country
CountryID
CountryName
CountryDesc
CountryCode
Active

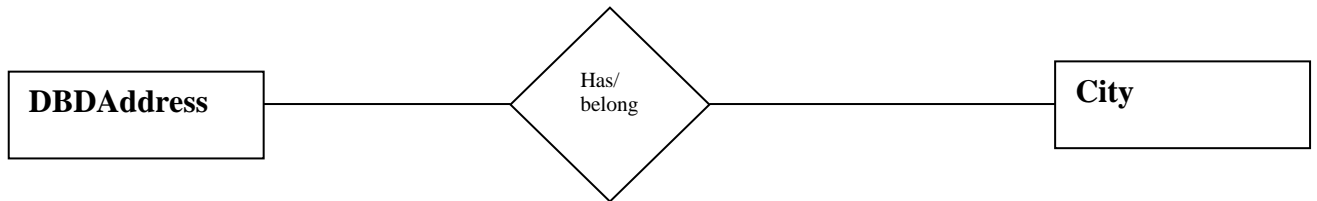
ER diagram for Location and City



BDALocation
LocationID
LocationName
LocationDesc
LocationCode
CityID
Pin code
Active

BDASState
StateID
StateName
StateCode
StateDesc
CountryID
Active

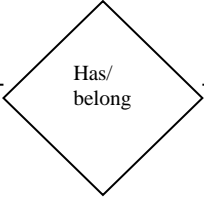
ER diagram for Location and City



dBDA_Address
AddressID
AddressLine1
LocationID
CityID
StateID
CountryID
CountryID
Zipcode
Active

BDACity
CityID
CityName
CityDesc
CityCode
StateID
Active

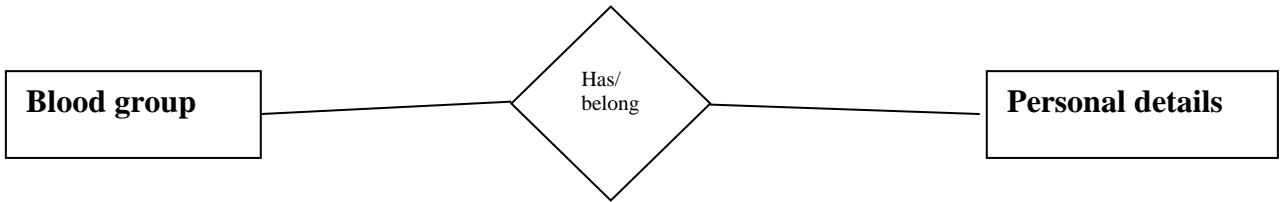
ER diagram for Location and Address



BDALocation
LocationID
LocationName
LocationDesc
LocationCode
CityID
Pin code
Active

DBDAddress
AddressID
AddressLine1
LocationID
CityID
StateID
CountryID
CountryID
Zipcode
Active

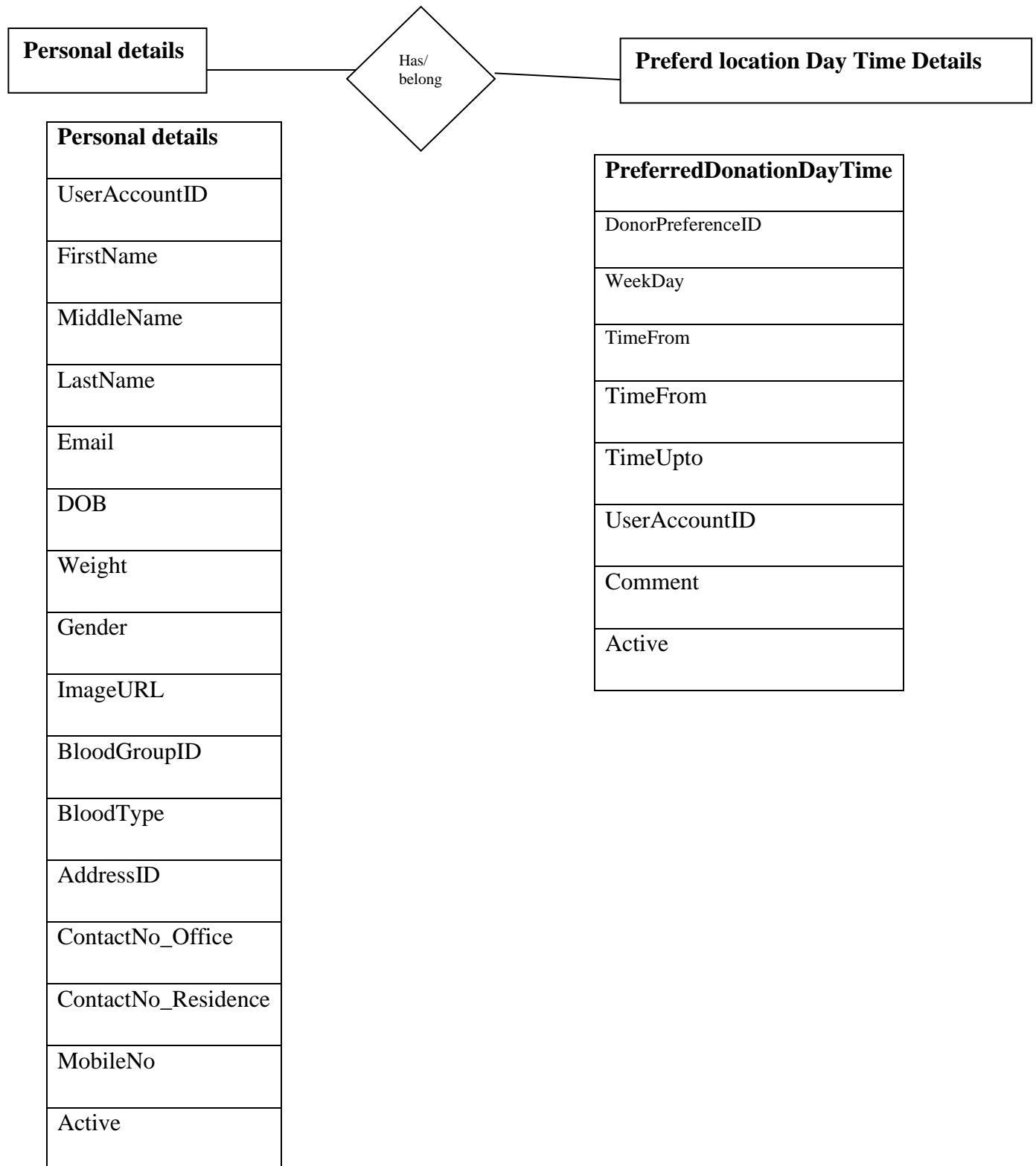
ER diagram for Blood group Personal details



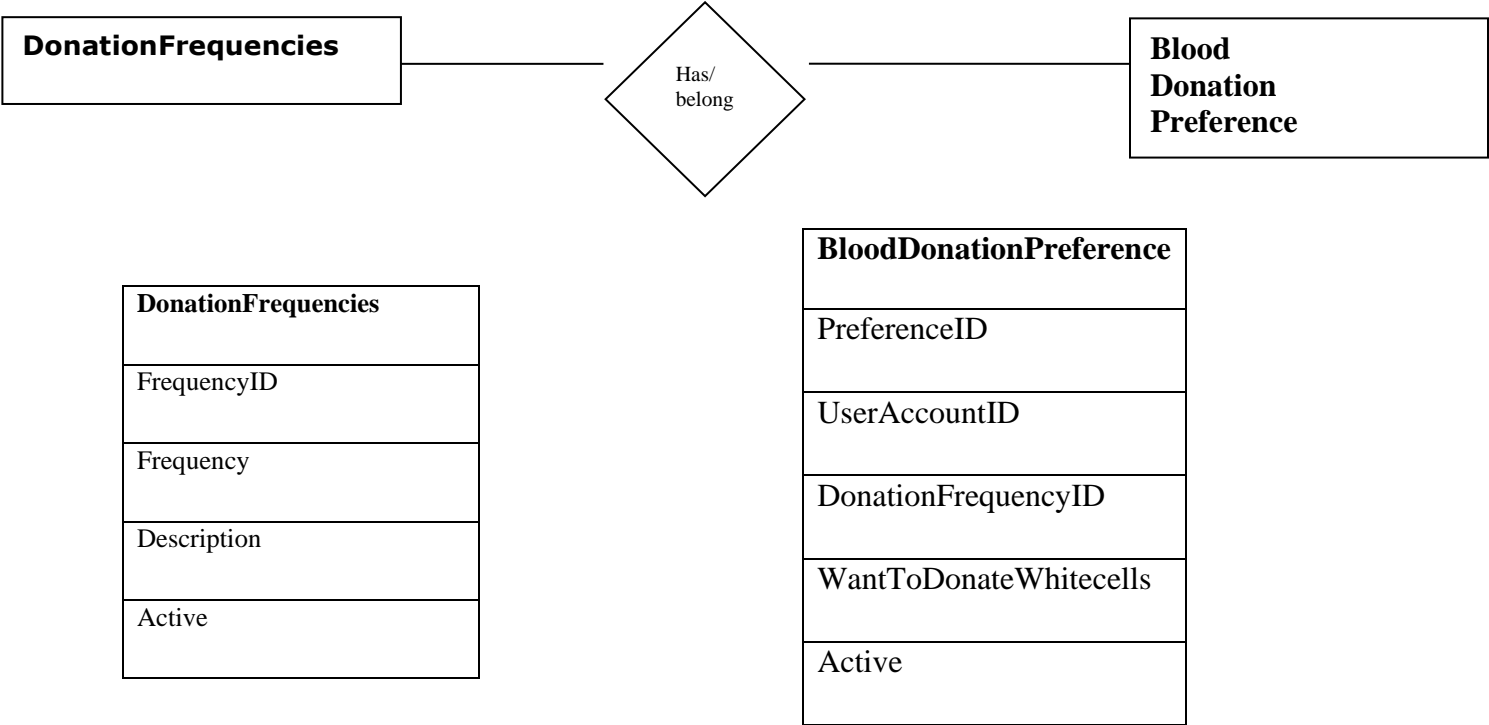
BloodGroup
BloodGroupID
BloodGroup
Description
Active

Personal details
UserAccountID
FirstName
MiddleName
LastName
Email
DOB
Weight
Gender
ImageURL
BloodGroupID
BloodType
AddressID
ContactNo_Office
ContactNo_Residence
MobileNo
Active

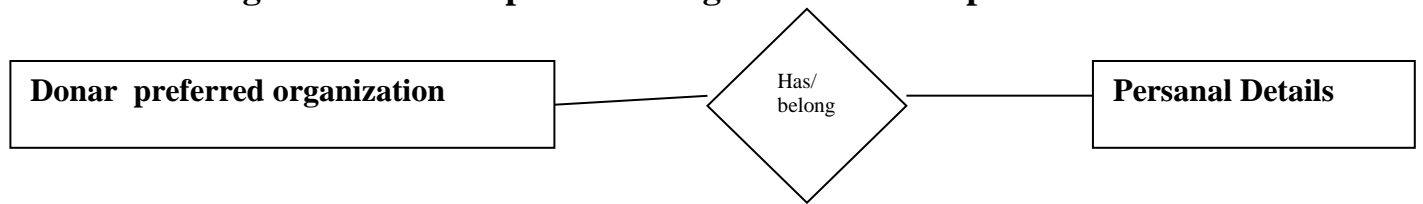
ER diagram for Personal details and Blood Donation preferences



ER diagram for Donor Frequencies and Blood Donation Preferences



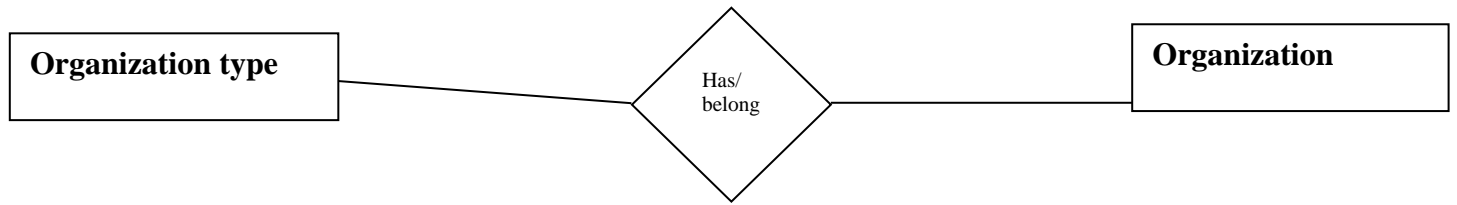
ER diagram for Donor preferred organization and personal details



DonorPreferredOrganisation
UserAcountID
OrganisationID
Active

Personal details
UserAccountID
FirstName
MiddleName
LastName
Email
DOB
Weight
Gender
ImageURL
BloodGroupID
BloodType
AddressID
ContactNo_Office
ContactNo_Residence
MobileNo
Active

ER diagram for Organization type and Organization



OrganisationType
TypeID
TypeName
TypeDescription
OrgImage
Active

Organisation
OrgID
OrgName
OrgType
Email
OrgAddrID
OrgImageURL
OrgDescription
ContactNo
MobileNo
Active
Comment