DATA DICTIONARY

PROCESSES :

Process 1.0

Process Name :login Management Process

Description : If the user has an already existing account on our website then he will be asked for login credentials otherwise for sign up

Inbound Data Flows: user name and password
Outbound Data Flows: profile creation

Process 2.0

Process Name :Blood Donating Process

Description :current details of the donor will be taken and donor id will be issued to the donor and necessary updates will be performed on stock and databases

Inbound Data Flows: details of donor, amount and type of blood donated
Outbound Data Flows: generates donor id

Process 3.0

Process Name :Blood Recieving Process

Description : takes details of the receiver and check for availability of blood and update stock database accordingly. Then returns the list of hospitals available with the required blood.

Inbound Data Flows: Recipient details along with blood request
Outbound Data Flows: list of hospitals

Process 4.0

Process Name :Hospital Management Process

Description : updates the Hospital Database according to the details of the hospitals which have blood stocks available
Inbound Data Flows: hospital details
Outbound Data Flows: updated hospital list

Data Flow Names

Name : Login Info
Description: user enters Username and Password
From Processes :
To Processes: login Management Process
Data Structures : users

Name : Issue Membership
Description: If user has an already existing account then he will be able to access the portal otherwise issue a new membership.
From Processes : login Management Process
To Processes:
Data Structures : user

Name: Donor details
Description: All details of the donor will be asked including all details of the type of blood donated.
From Processes:
To Processes: Blood Donating Process
Data Structures:

Name: Send appropriate details(donor)
Description: Donor details are added to donor database
From Processes: Blood Donating Process
To Processes:
Data Structures: Donor

Name: Issue Donor id
Description: A Donor id is issued to the donor
From Processes: Blood Donating Process
To Processes:
Data Structures:

Name: Returns the required data(donor)
Description: Donor id is retrieved from the donor database if already exists otherwise new donor id is issued
From Processes:
To Processes: Blood Donating Process
Data structures : donor

Name: Update stock details(blood donated)
Description: details of blood donated are updated in stock database
From Processes: Blood donating Process
To Processes:
Data Structures: donor details

Name: Blood request(recipient)
Description: recipient asks for the blood required and enter his/her details
From Processes:
To Processes: Blood Recieving Process
Data Structures:

Name: Check for availability and respond accordingly(blood required)
Description: checks in the stock database for the blood required by recipient
From Processes: Blood Receiving Process
To Processes:
Data Structures: blood stock

Name: Send receiver details
Description: recipient details are added to the Recipient database
From Processes: Blood Receiving Process
To Processes:
Data Structures:

Name: Send hospital list
Description: List of hospitals will be sent to to the receiver.
From Processes: Blood receiving process
To Processes:
Data Structures: hospital database

Name: responds according availability / hospital list
Description: receiver gets its response according to availability of blood and if the blood is available a hospital list is given to the recipient
From Processes: Blood Receiving Process
To Processes:
Data Structures:

Name: asks for hospital list
Description: hospital database is checked for the availability of blood required and a hospital list is fetched
From Processes:
To Processes: Blood Receiving Process
Data Structures:hospital database

Name: update the database (Hospital)
Description: hospital database to be updated according to the blood stock available in hospitals
From Processes: Hospital Management process
To Processes:
Data Structures: Hospital database

Name: Hospital details
Description: details of the hospital
From Processes:
To Processes: Hospital Management process
Data Structures:

Data Structures :

1.Users
- User_id
- Username
- Password
- Date

2.Donor
- Donor_id
- Name
- Address
- Age
- Gender
- Phone
- H_id
- Blood
- Rh
- Certificate

3.Recipient
- P_id
- Name
- Email
- Age
- Phone Address
- Gender
- Blood
- Rh
- Emergency
- Date required before

4.Hospital
- H_id
- H_name
- H_address
- H_phone
- H_email

5.Inventory

- Bloodbag_id
- H_id
- Blood_type
- Blood_volume
- Receive_date
- Type_rh

Data Stores:-

1.Users

User : Contains general information of a User

user_id(PK)	INT(11)	Unique key to identify each user	1
password_hash	Varchar(255)	generate hash for password	$2y 13QtBx5UYoH3Fg9S lp2X8d7eHpxswuy4zZ/ VWfHgs2kXDnr8HXhZo BC
username	Varchar(60)	email address that user use for register to system	abc@gmail.com
created_at	datetime	Date and time of new username created	01/03/2017 13:05:23

Donor: Contains general information of a Donor

Column	Type	Description	Example
d_id(PK)	Int(11)	Unique key to identify donor	1
d_name	Varchar(50)	Name and username of donor	Alexander washington
d_age	Int(11)	Donor's age	25
d_addr	Varchar(200)	Address od donor	424 trapha bkk 1200025
d_gender	Varchar(6)	Gender of donor	Male,female
d_phone	text	Contact number of donor	9438227836
h_id(FK)	int(10)	Key to identify each hospital	1234985600
blood_type	varchar(3)	Blood type of donor	AB
type_rh	Varchar(10)	Identify special type of blood	Rh positive ,Rh negative

Medical_certificate_submitted	varbinary(100)	Has the donor Submitted his/her medical certificate	report.pdf

Recipient

Recipient : contains all the information of patient

Column	Type	Description	Example
p_id(PK)	Int(11)	Unique identity given to the patient	55665652354
p_name	Varchar(50)	Name of the patient	Mohit kumar
p_age	Int(10)	Age of the patient	30
p_contact	text	Contact number of the patient	9468127389
p_addr	Varchar(50)	Address of the patient	9, friends market , opp SBI , Chandni chowk, delhi
p_email	Varchar(50)	Email of the patient	xyz@gmail.com
require_date	text	On which day he	28/05/2020

		requires blood	
req_blood_group	Varchar(3)	Blood group that is required	AB
rh_type	Varchar(20)	Special type of blood required	Rh positive , Rh negative
Emergency_case	Varchar(5)	is this an urgent case	'YES' or 'NO'

Hospital

Hospital: Contains general information of the Hospital

h_id(PK)	Int(10)	Unique key to identify hospital	1234985600
h_name	Varchar(50)	Hospital name	Indraprastha Apollo hospital
h_addr	Varchar(255)	Address of hospital	Sarita vihar , Delhi - mathura road , New delhi
h_phone	varchar(15)	Contact number of hospital	029561335-3213
h_email	Varchar(50)	Contact email to hospital	apollohospital@gmail.com

Inventory

Inventory: Contains the inventory information

Column	Type	Description	Example
bloodbag_id (PK)	int(11)	generate id to identify blood bag	1109746001
h_id(Fk)	int(10)	key to identify hospital	1234567890
blood_type	Varchar(3)	blood type of donor	AB
blood_volume	int(3)	Amount of blood in each bag	150 (cc)
receive_date	Datetime	Date of receive blood	28/04/2019

| type_rh | text | Identify special type of blood | Rh positive, Rh negative |