*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 :**currentdetails 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**  **$13$QtBx5UYoH3Fg9S**  **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** |

**2.Donor**

**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** |

**3.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 requires blood** | **28/05/2020** |
| **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’** |

**4.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** |

**5.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** |