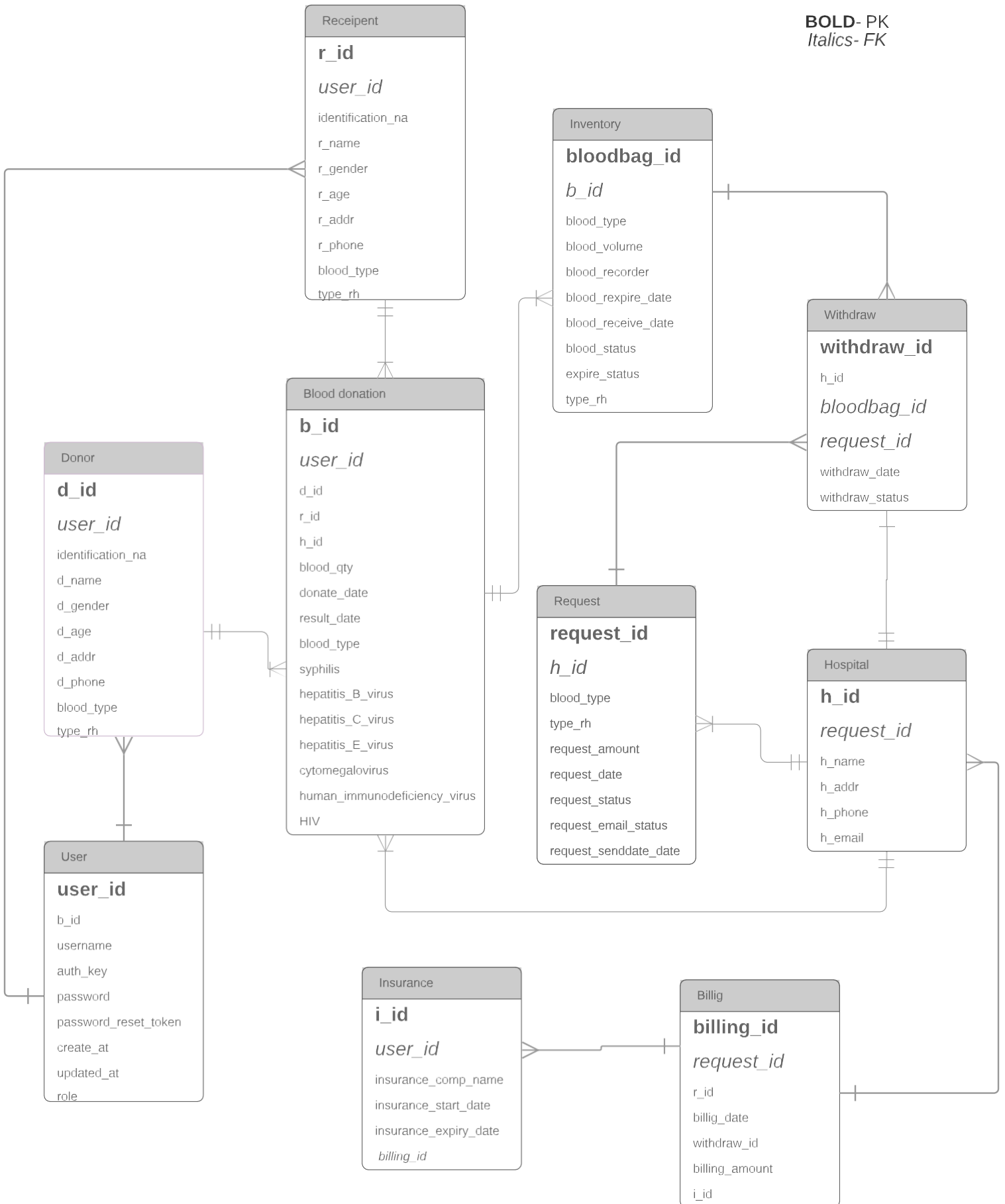


# Blood Bank Management System



## **Business Rules**

- Preliminary Filter for Donor
  1. Age > 18 and Age <65
  2. Weight > 50
  3. No illness from list : HIV positive, cardiac arrest, hypertension, blood pressure, cancer, epilepsy, kidney ailments and diabetes
- Expire\_date = collection\_date + 21
- Blood type belongs to only from A+, A-, B+, B-, AB+, AB-, O+ , O-

	Plasma Choice				
		#1	#2	#3	#4
Recipient	O	O	A	B	AB
	A	A	AB		
	B	B	AB		
	AB	AB			

- State can only be Massachusetts

## **Privacy Setting**

There are two users in this system.

### 1. Donor

- Able to view their donation records, including where and when they made donations, and the blood results for each, to learn of their donated blood quality and schedule their next donations.
- Able to view and update their personal information, including name, contact address, and phone number, to keep their donor's information record upto-date with the blood bank.
- To be notified of the blood results of their previous donation by e-mail, to know the success of their donation.

### 2. Recipient

- Able to view their donation records, including where and when the donations of blood was made, and the blood results for each, to learn of their receiving blood quality.
- Able to view and update their personal information, including name, contact address, and phone number, to keep their information record upto-date with the blood bank.

### 3. Administrator

- Able to create, update, delete, and query donor's records in order to manage donor information.
- Able to create, update, delete, and retrieve donation records to manage information about donations made.
- Able to deposit donated blood into inventory when donations are made.
- Able to withdraw blood from the inventory and keep a record of blood stocks to always keep count of the blood bags.
- Able to create, update, delete, and retrieve request records from hospitals to manage hospital requests for blood.
- Able to create, update, delete, and query hospital's records in order to manage hospital information.
- Able to send e-mails to donors for their user account and blood results through the system.
- Able to send e-mail responding to hospitals for their blood requests through the system.