## Plasma management system specifications:

Hospitals can now find plasma for critically ill COVID-19 patient who needs immediate plasma transfusion by using the Plasma Management System. This system will have the following specifications:

- 1. Every **Hospital** will have a username (must be the hospital's name and will be unique) and a password for the respective account. A staff can access the plasma management system with that account only.
- 2. Hospital staffs either the **doctors** or **receptionists** will have access to the system. No other staff can access the plasma management system.
- 3. **Donors** who will be donating plasma are identified by a donor\_id (unique) and have multiple information including name, blood group, gender, health complication (if any), contact details (phone number, email address and a permanent address). A donor can donate to multiple patients if he/she wants in the listed hospital.
- 4. On the other hand, a hospital can have many donors but a donor can be listed with only in one hospital.
- 5. A **patient** receiving plasma can have at most 1 donor (i.e., the patient and donor's blood group must match).
- 6. A donor can donate to multiple patients if he/she wants.
- 7. Each patient will have information about the patient's blood group and name. A patient id will be used to uniquely identify the patient.
- 8. There must be at least one donor for each of eight blood group (if possible). The donor must be someone who recovered from Covid-19 recently