

Be a Donor

Introduction:

There are always some people who prefer to provide help and support to those in need. The needy people can be helped in many ways. They cannot effort proper food, education and proper medical treatment. Often the people who are willing to help cannot reach to the needy people directly. Not only the poor people but also the rich ones sometimes become depending on others' help. Finding effective ways to retain blood/plasma donors is crucial especially in this current Covid situation. Now a days, it is a very common in social media to see people asking for financial help for people in critical medical condition. But sometimes it becomes difficult to verify properly as there are a lot of frauds. So often the actual needy people don't get proper support.

So our primary goal is to build a platform where donors can help the needy ones. Users can donate on specific category or to a specific request as they wish. Our moderator will verify help seeking requests and payment confirmation.

Scope:

The scope of this project is limited to the donors, moderator, admin and those in need. This system will provide donation service. There will be collaborations between both type of people who will donate and who needs donations. A charitable non-profit organization will run it. On our web app, moderators will work as a bridge between the donors and the people who seek help. Admin will monitor the activities of the moderators.

Users and their roles:

- **Anonymous User:**

- Anonymous user will be able to register to our system and start to donate or ask for help.
- They can view gallery, weekly/monthly top donors list, public help seeking posts etc.

- **Registered Users:**

Registered users will be able to use our system with full privilege. They will

- Donate money/goods.
- Ask for help
- Provide us information about others who need help

- **Admin Users:**

- Admin will have the privilege of adding/removing a moderator.
- Admin will monitor the activities of the moderators

Use Cases of the System:

1. **Create Account:** An **anonymous user** and the **system** are the actors of the use case. After providing the required information the system will create an account for the **anonymous user**. Also an admin can create account for a moderator in this system.
2. **Ask for help:** A registered user can ask for help. The register user and the system are actor for this case. User can ask for blood donation, financial support for critical medical case (Proper documents should be submitted) and so on.
3. **Review help request:** Moderator, registered user and the system are the actors for this case. When a user ask for financial support, our moderator will verify the request. They might contact with the hospital authority in case of medical issue. They will approve the request or may ask the user further queries.
4. **Accept Blood donation Request:** Registered users and the system are the actors for this case. When a user ask for blood donation, a notification will be sent to all the nearby users fulfilling all the criteria. When a user accepts to donate blood, the request will be completed.
5. **Donate Money:** Registered users and the system are the actors for this case. Users can donate money for any category. They can also donate money for specific request. Users can also pay Zakat, fitrah. Once payment is completed, it will require verification from the moderator.
6. **Verify donation:** Moderator and the system will be actors of this case. Our moderator will verify the amount which is sent by the donors. We can omit this manual verification if we can get payment API from bKash/Nogod/SSL Commerce. Using API will make this process automatic.
7. **Submit goods for donation:** A user can submit unused clothes, study materials, gadgets to donate. They will submit photo and details of the items they want to donate. Our reviewer will decide whether the goods will be picked up by us or we will ask the donor to send via courier.
8. **Update Donor List:** The system will be the actor for this case. Every weekly/monthly top donors list will be updated which will be visible to all. Donors will have the choice to decide whether his/her donation will be visible/hidden from others
9. **Redeem points:** The user and the system will be actors for this use case. After every donation some points will be added to user account. A user can

redeem his points to get t-shirt/other cool stuffs. This is mainly to inspire the user to donate more.

10. Update Gallery: Admin, moderator and the system are the actors for this case. They can add/delete or update the gallery.

Technology:

- Spring Boot
- Spring Data
- Spring Security
- JPA/Hibernate
- JSP/JSTL
- Sitemesh
- Bootstrap/Sass
- jQuery/Ajax

Build Tools:

- Gradle

Database:

- MySQL