# ONLINE MEDICINE DONATION

*IET CDAC Pune*


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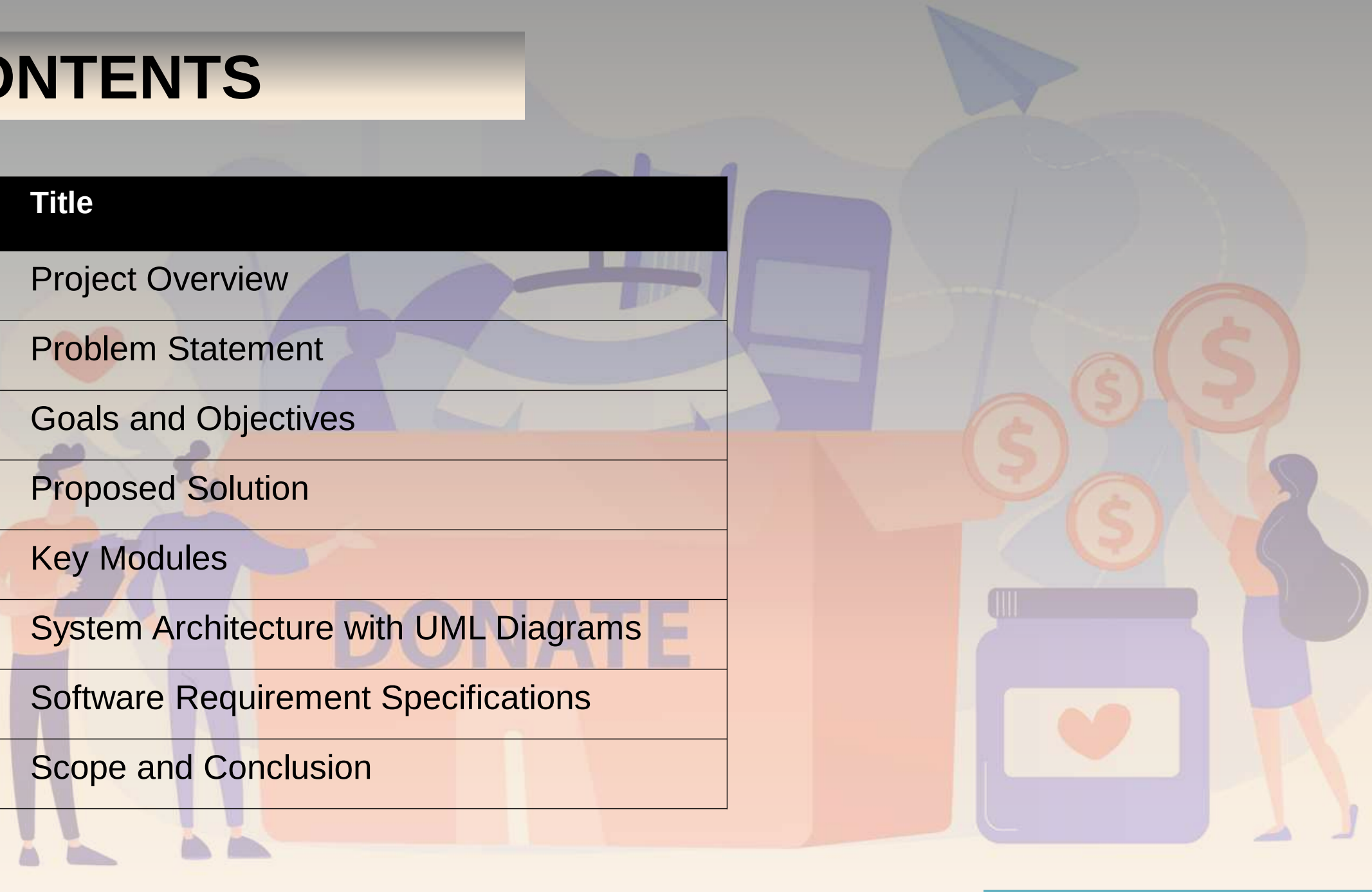
# OUR AIM

To create a digital platform that enables individuals and organizations to donate unused, unexpired medicines to those in need, promoting accessibility, reducing medical waste, and supporting public health and sustainability.

# CONTENTS





# PROJECT OVERVIEW

- The Online Medication Donation is a web-based platform that connects medicine donors with NGOs and hospitals in need.

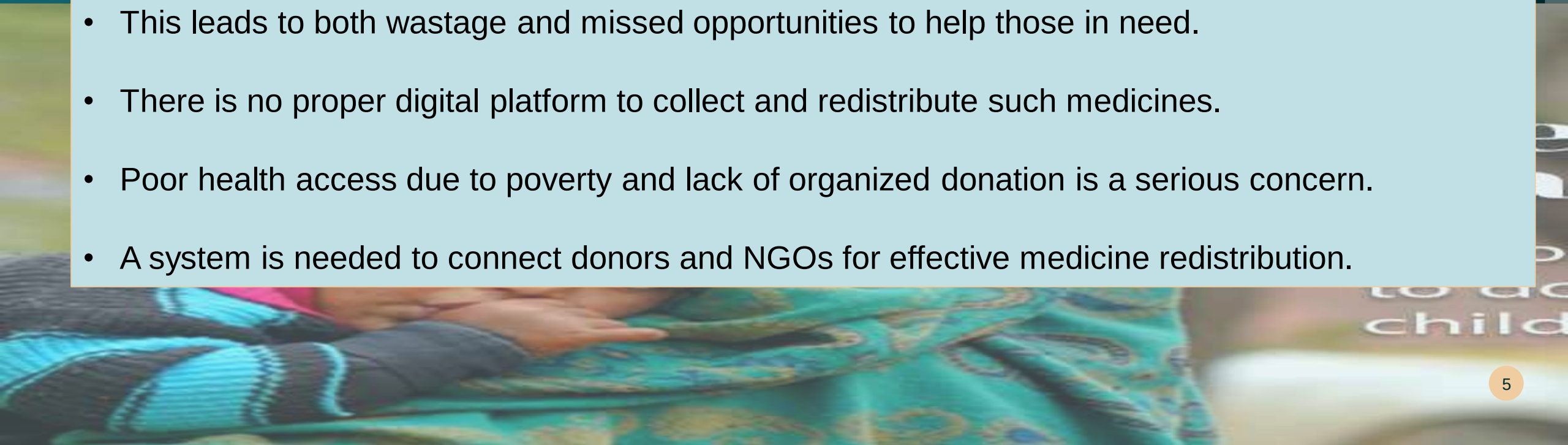
- It allows users to donate unused, unexpired medicines, ensuring safe redistribution to underprivileged communities.

- The system includes features like user authentication, medicine validation, and admin control for verification and transparency.

- Built using React.js, Node.js, Java/.NET, and MongoDB/MySQL, the platform is secure, scalable, and socially impactful.

# PROBLEM STATEMENT

- In India, a large population lives below the poverty line and cannot afford basic medicines.
- On the other hand, many leftover medicines go unused and are often thrown away after recovery.
- This leads to both wastage and missed opportunities to help those in need.
- There is no proper digital platform to collect and redistribute such medicines.
- Poor health access due to poverty and lack of organized donation is a serious concern.
- A system is needed to connect donors and NGOs for effective medicine redistribution.



# GOALS AND OBJECTIVES

- Reduce unused medicine wastage
- Support healthcare for poor
- User-friendly donation platform
- Track medicine expiry dates
- Secure login for users
- Verified NGOs distribute fairly
- Promote donation awareness

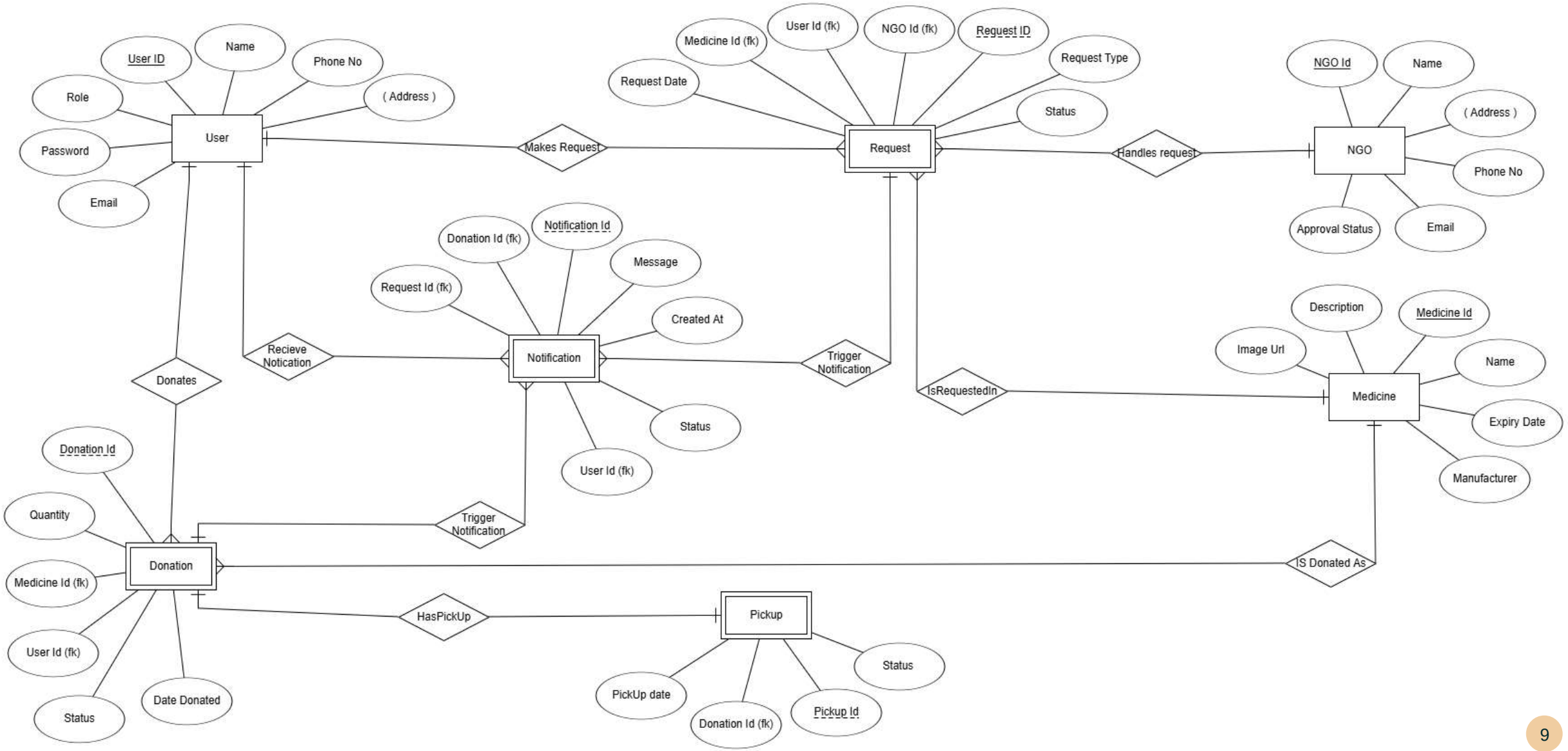
# PROPOSED SOLUTION

- Centralized medicine donation app
- Role-based user login system
- Upload medicine info securely
- NGOs request needed medicines
- Admin dashboard for approvals
- Track medicine inventory data
- Secure, user-friendly design

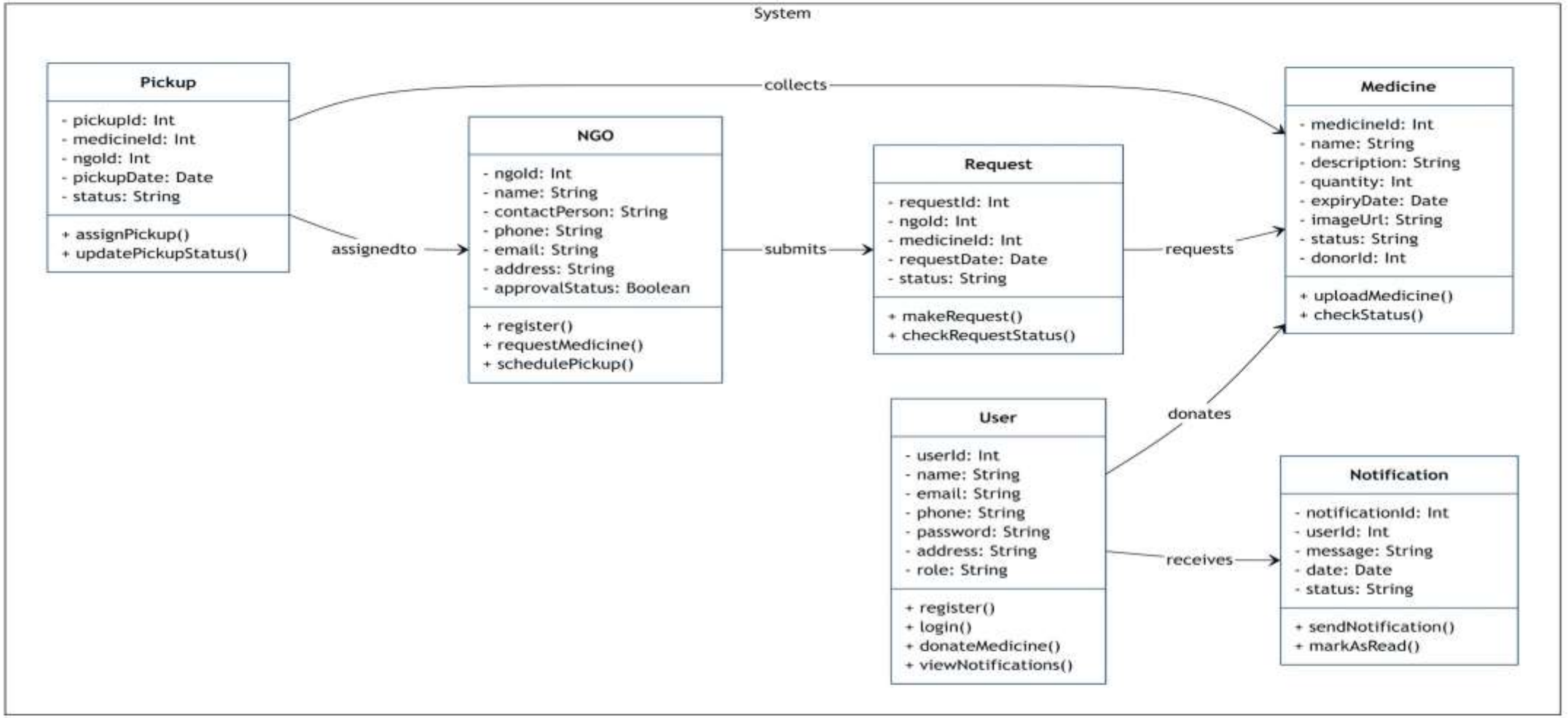
# KEY MODULES

- User Registration & Login
  Secure login for donors, NGOs, and admin with role-based access.
- Medicine Donation Module
  Allows users to upload medicine details like name, expiry, and quantity.
- NGO/Receiver Module
  NGOs can view available medicines and request what they need.
- Admin Dashboard
  Admin manages users, verifies medicines, and oversees all activities.
- Medicine Inventory Management
  Tracks all donated medicines, their status, and expiry information.
- Notification System
  Sends alerts to users or NGOs when donation status changes (email/SMS optional).
- Donation History & Tracking
  Users and NGOs can view their donation and receiving history.

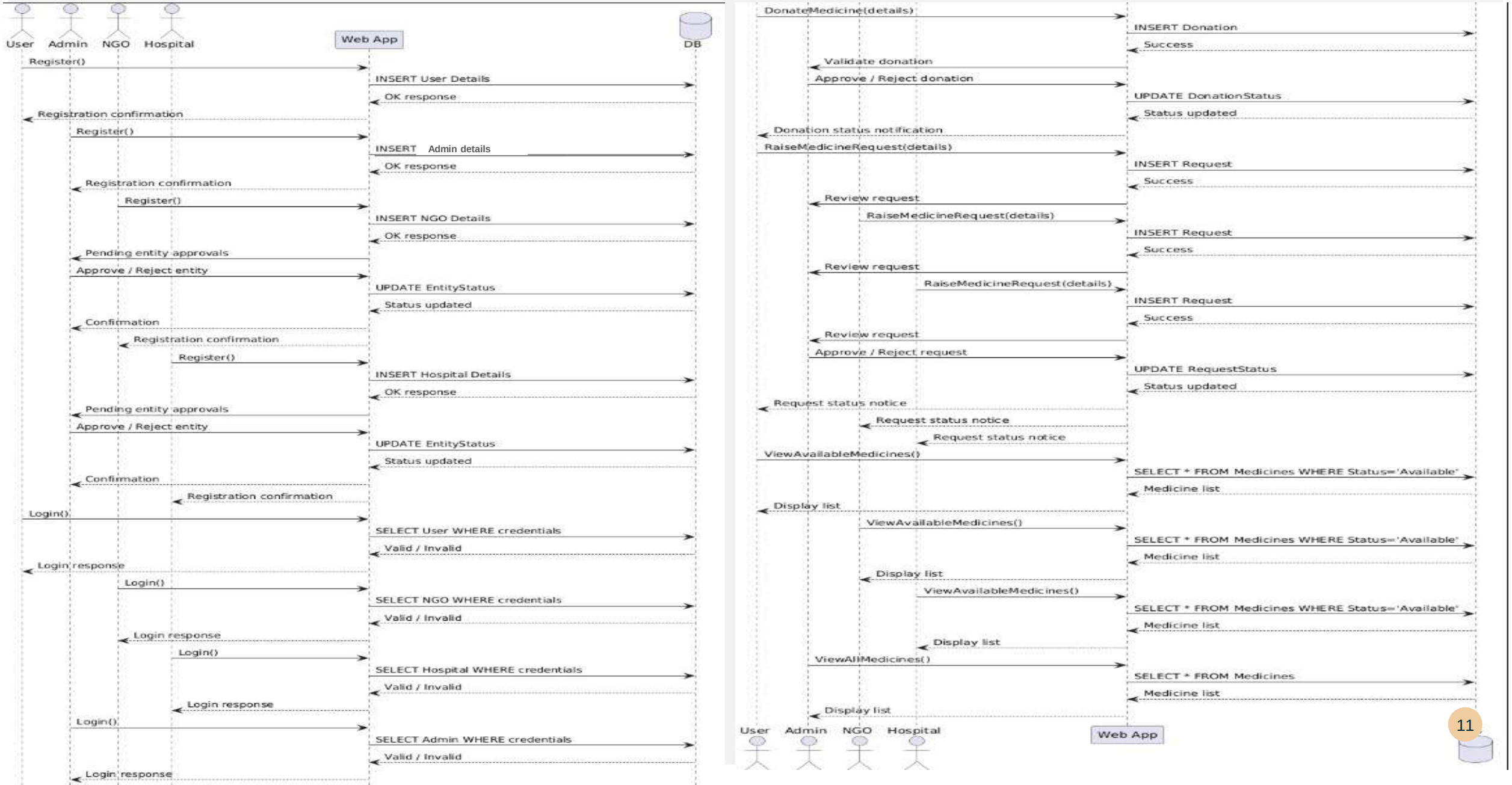
# ENTITY RELATIONSHIP DIAGRAM



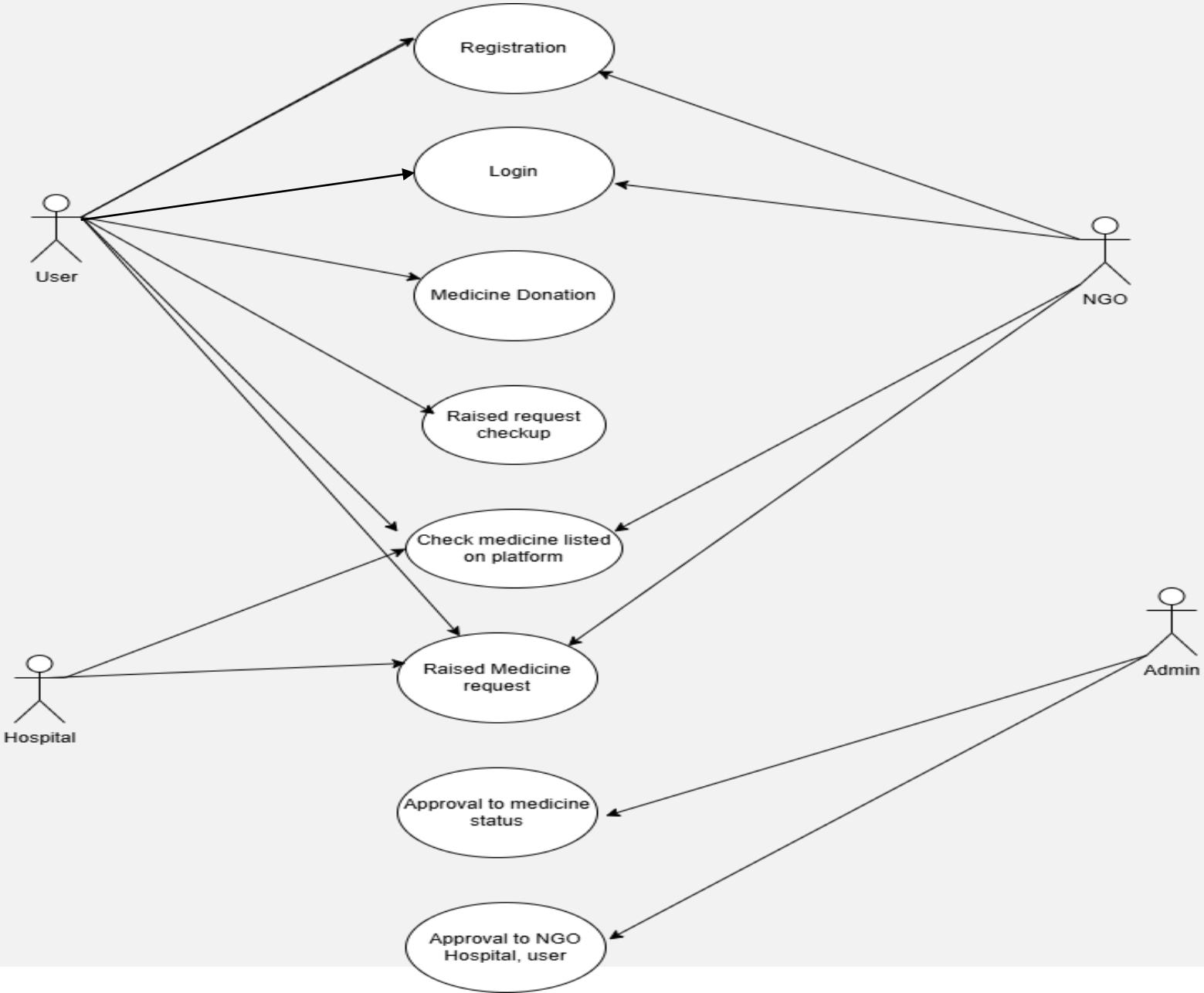
# CLASS DIAGRAM



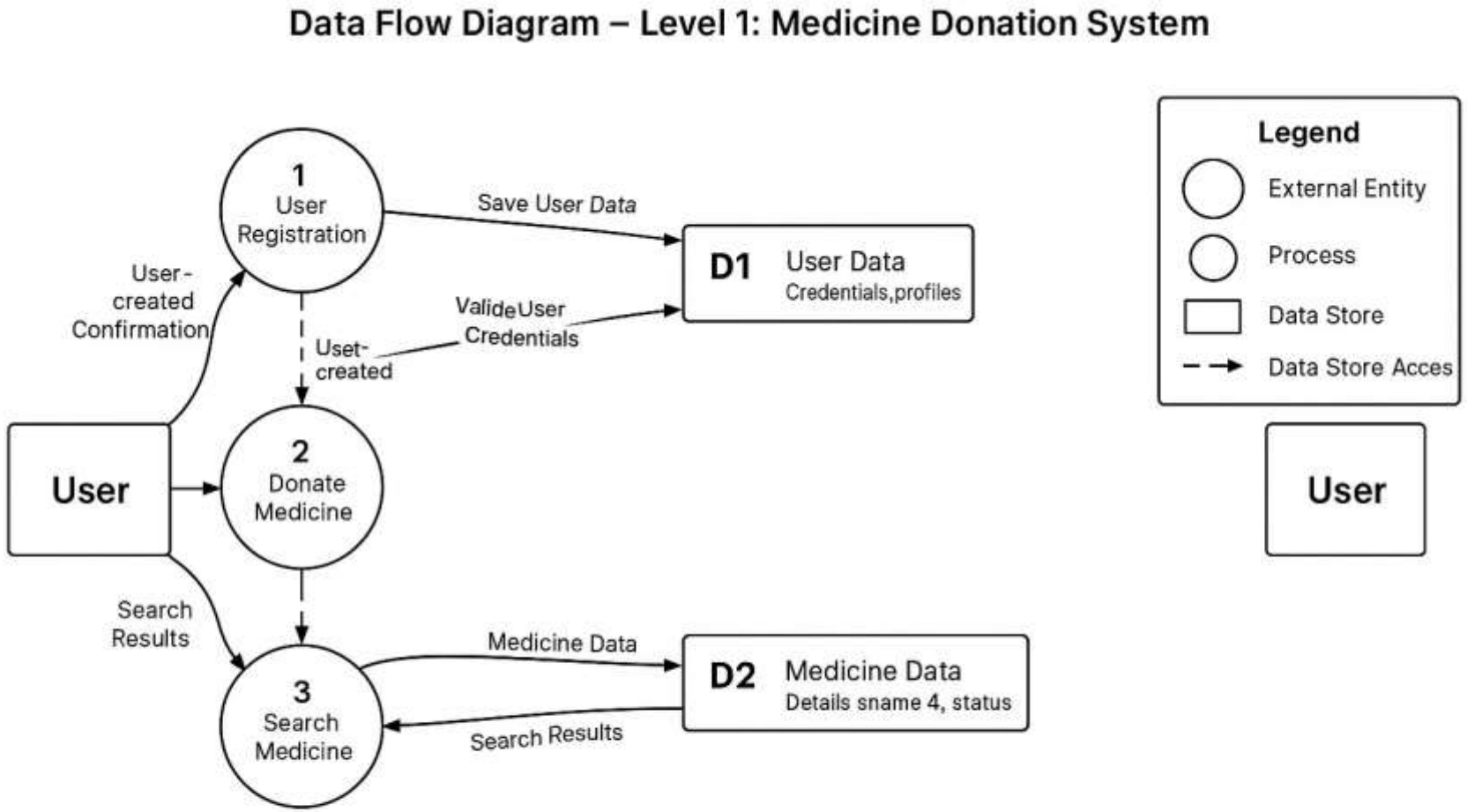
# SEQUENCE DIAGRAM



# USE-CASE DIAGRAM

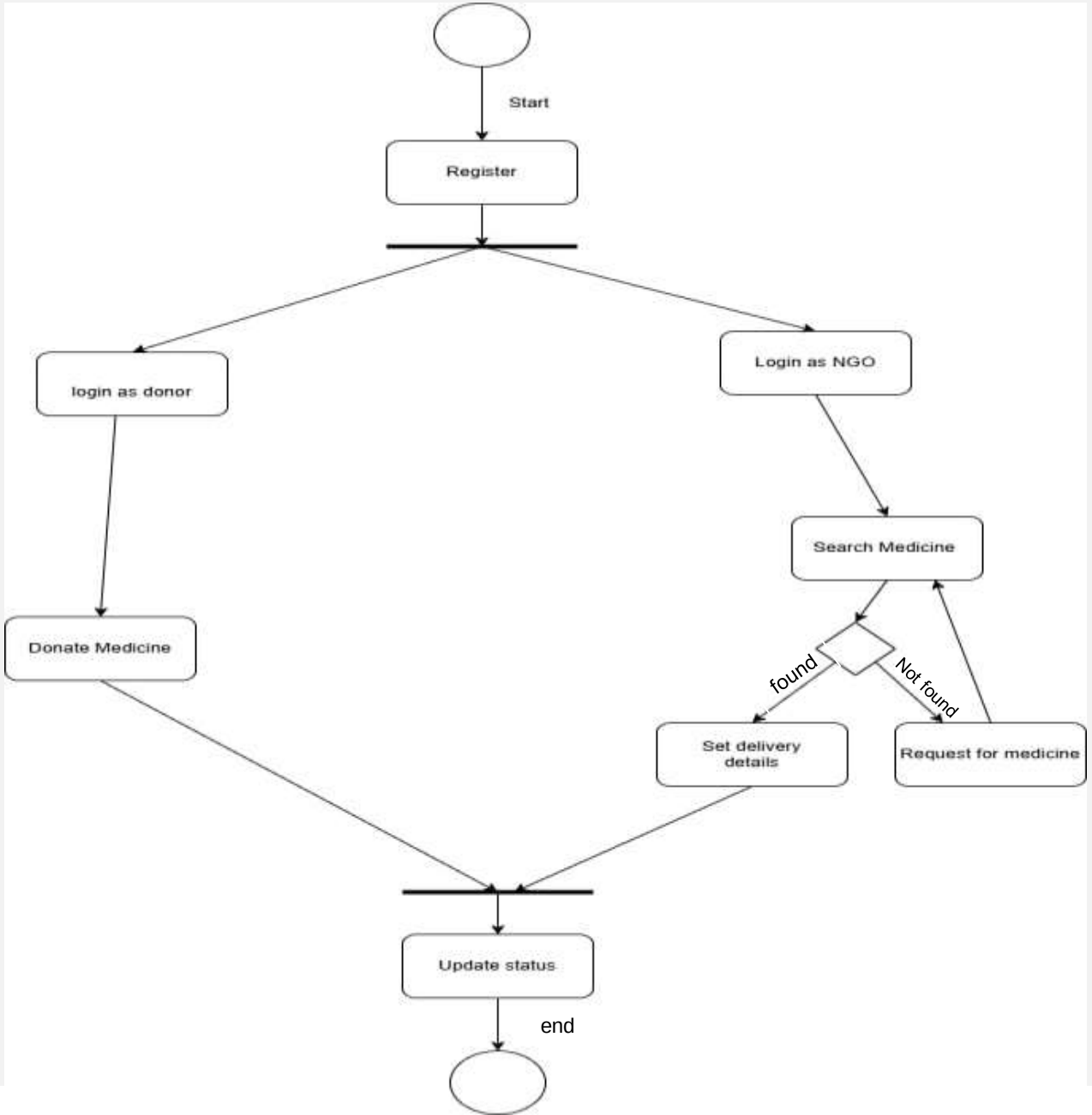


# UML DIAGRAMS – DFD DIAGRAM



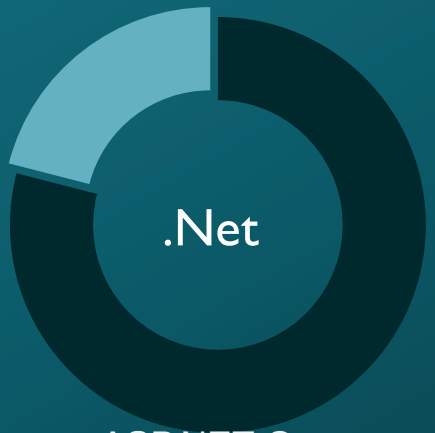

Data Flow Diagram – Level 1 1: Medicine Donation System

# ACTIVITY DIAGRAM

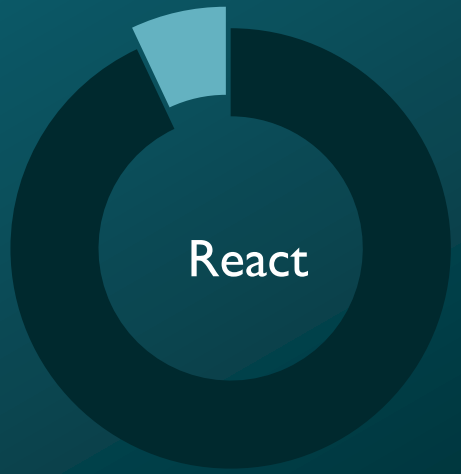


# SOFTWARE REQUIREMENT SPECIFICATIONS

## Technology Stack

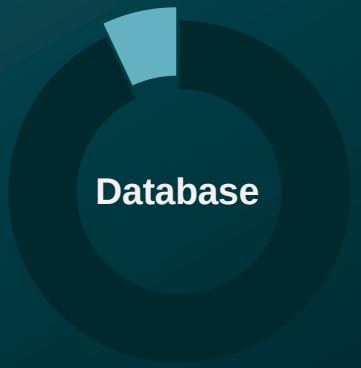



ASP.NET Core - Scalable web services and APIs




**React, Nodejs, Express**

Bootstrap, Talwind CSS




MySQL

.NET: A powerful Microsoft framework used to build secure and scalable backend APIs and services.

React.js: A fast and flexible JavaScript library for building dynamic, component-based user interfaces.

MySQL: A widely-used relational database system for structured data storage, supporting powerful SQL queries and transactions.

# SCOPE AND CONCLUSION

- Web-based platform accessible from desktop and mobile browsers.
- Expandable to support more users across multiple regions.
- Allows multi-role login for donors, receivers, and admins.
- Can integrate basic email or SMS notifications in future.
- Connects donors with NGOs to reduce medicine waste.
- Simple interface for easy medicine donation and management.
- Ensures secure access through role-based login system.
- Promotes health support through digital community participation.

# THANK YOU