

# **AN ONLINE MULTIFACETED DONATION SYSTEM IN BANGLADESH**

**BY**

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of  
Bachelor of Science in Computer Science and Engineering

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## **APPROVAL**

This Project titled “**An Online Multifaceted Donation System in Bangladesh**”, submitted by Jannati Tayeba, ID: 201-15-13989 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 6 August.

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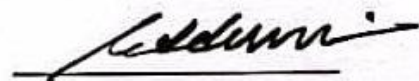


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I hereby declare that; this project has been done by us under the supervision of **Shah Md. Tanvir Siddiquee**, Assistant Professor, Department of CSE, Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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## ABSTRACT

A web-based An Online Multifaceted Donation System in Bangladesh was created to make it easier for those in need to donate goods, funds, and medications. By bridging the gap between donors and recipients, this method offers a simple and well-organized approach to support the welfare of those who are less wealthy. The Administration, NGOs (Non-Governmental Organizations), and Participants (donors) are the three main components of this framework. As an administrator of the system, the admin makes sure that donations are appropriate and of a high Caliber. The administrator has the ability to oversee members by disciplining individuals who provide undesired or outdated medications. In order to improve transparency and responsibility, they also monitor the permission and organization of appointments that NGOs request, as well as the creation of periodic updates on member activity. NGOs are essential participants in this network; they register and then make appointments to get donated medications. For handling their supply chain, they may also utilize inventory administration. The technology makes it easier for NGOs, funders, and the administration to communicate and work together, fostering a goodwill atmosphere. On the other hand, after registering, members give medications, cash, or goods. In order to increase security, they may see the transactions they have made and modify their login details. Donors have the ability to significantly improve the lives of others who are less fortunate. The foundation of the system's construction is PHP, JavaScript, CSS, and HTML. The adaptable and customer-friendly design of the user interface guarantees accessibility on a range of devices. Sophisticated security protocols are put in place to safeguard private information as well as information provided by users. This framework offers people a quick and easy method to become involved in philanthropic initiatives because of its modular design and simple structure. By improving transparency and responsibility, it makes sure that contributions go to the people who require them the most. The Online Drug Donation and Aid Program connects donors, non-governmental organizations, and authorities to create a compassionate and supportive community that improves the physical and mental wellness of the community's least fortunate citizens.

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# Chapter 1

## Introduction

### 1.1 Introduction

With the launch of the Online Multifaceted Donation System in Bangladesh, a technologically advanced, humane program aimed at meeting the basic requirements of marginalized people in society has begun. This system is a ray of light in the face of the growing gap in the availability to fundamental healthcare and requirements. It connects funders, NGOs, and administrators in an ever-changing manner so that they may work together to make a positive difference. This web-based portal provides a practical and effective response to human rights problems such as the less fortunate lack of access to goods, financial aid, and medical supplies. The system supports openness, accountability, and the prudent distribution of resources by offering funders, non-governmental organizations, and officials a well-organized structure. Contributions are efficiently directed to those who are in need because to the unique responsibilities played by the system's key entities, which include the Admin, NGOs, and Members (donors). The Administrator ensures that contributions are suitable and of high quality by closely monitoring members and donations and facilitating authorized recruitment for non-governmental organizations. As a result, NGOs are able to better touch the people they serve by managing their possessions and scheduling appointments for the receipt of donated drugs. The core of this system are its members, who can easily apply, give funds, medications, or goods, as well as view their record of transactions. This platform, which makes use of HTML, CSS, JavaScript, and PHP, is proof of the ability of technology to foster kindness on a worldwide scale. The Online Medicine Donation and Aid System has the capacity to unite people, non-governmental organizations, and administrators in a smooth and safe setting, which might spark positive transformation and offer critical support to those going through hardship. The foundation for a revolutionary path toward a just and compassionate society is laid forth in this beginning. this project provides optimism in a society where community support and medical treatment are uneven. It makes use of technology to build a vibrant, networked community where kindness is translated into practical assistance. By providing a simple answer to the urgent problems of getting medical care, monetary support, and goods distribution, this web-based

platform lays a solid basis for change. This technique's primary goals are to improve the distribution of resources, accountability, and accessibility. It does this by giving its main players—the administrator, NGOs, and Members—clear duties. As the system's protector, the admin makes sure that contributions meet the requirements and uphold the highest requirements for quality. The admin ensures that funds are spent wisely and that no one who requires assistance is left alone by monitoring members and supervising authorization and organization of consultations sought by NGOs. NGOs are essential to this environment. They can easily keep track of their inventory and make schedules to accept donated medications. This enables them to carry out their purpose of serving and supporting people who depend on them more successfully. The system's core component, individuals, may quickly register, contribute necessary things, and view their gift history. They possess the ability to profoundly influence the lives of people who are less fortunate.

## **1.2 Motivation**

An Online Multifaceted Donation System in Bangladesh was developed out of a deep-seated desire to lessen the pain and struggles endured by many people who are unable to get basic necessities such as goods, food, and medicine. This model is motivated by a deep desire to use technology and human kindness to close the economic divide and build a more caring, just, and accepting worldwide community in an atmosphere where inequality in socioeconomic status are commonplace. It is driven by the conviction that by giving donors, NGOs, and administrations an organized and effective structure, we can all work together to significantly improve the lives of people in need by giving them opportunities and a way forward for an improved and happier future.

## **1.3 Objectives**

An Online Multifaceted Donation System's main goals are to provide a unified and open infrastructure that enables people and organizations to significantly improve the lives of people with disabilities. First and foremost, the procedure seeks to make it easier for vital medications, cash donations, and goods to be donated effectively, meeting urgent humanitarian requirements. In addition, it aims to avoid resource misuse and the dispensing of undesired or outdated medications by enforcing responsibility and openness in the donation process. Thirdly, the entire

structure aims to create a worldwide network of compassion by promoting cooperation and synergy between donors, NGOs, and administrators. It attempts to expedite NGOs' appointment-planning and approval processes so they may better serve the people they serve. Finally, the system is driven to use technology to close gaps in community assistance and access to medical care, highlighting the role that human compassion and creativity can play in creating a society that is more compassionate and egalitarian. By achieving these goals, the system hopes to improve the circumstances of those facing hardships in the long run and foster a more sympathetic and caring society.

#### **1.4 Expected Outcomes**

The following are the anticipated results of An Online Multifaceted Donation System:

- **Enhanced Access to Important Medicines:** It is projected that the system will make it easier for those in need to donate medications effectively, which will increase accessibility to these essential medications.
- **Donations that are Accountability and Transparent:** By guaranteeing that all contributions adhere to requirements for quality and are readily available and accountable, the framework will lessen the amount of undesired or outdated medications that are distributed.
- **Enhanced Cooperation:** By promoting cooperation and coordination between funders, NGOs, and administrations, the structure will strengthen the worldwide network of sympathy.
- **Condensed Appointments Planning:** Recipients will receive improved services as a consequence of NGOs' increased ability to plan and handle sessions.
- **Enhanced Impact and Performance:** The system's implementation and application of electronic devices is anticipated to increase impact as well as effectiveness by streamlining contribution procedures and, in the meantime, improving the situations of those in need.
- **Diminished Disparities:** It is projected that the system's emphasis on fair availability of assistance services and healthcare will help to lessen the differences in these areas.
- **Enhanced Empathy and Community Involvement:** It is anticipated that the system would encourage people to take an active part in philanthropic activities and foster awareness and participation in the community.

- Potential of Information Showcased: The system will highlight how technology can be used to solve problems related to humanity and build a more understanding and encouraging environment.

## **1.5 Project Management and Finance**

An Online Multifaceted Donation System in Bangladesh will follow strict guidelines for developing, executing, and controlling the management of projects. The project group will be in charge of managing the system's development and upkeep, making sure it meets goals and adapts to changing circumstances. Funding will be provided for server web hosting, domain signing up, and the possibility of expanding the system to take into account an increasing number of users. The project will be funded by donations, grants, and collaborations with relevant entities, with an emphasis on openness along with accountable financial oversight that maximizes the impact of each resource-made investment in the method's task. The economic plan will put emphasis on cost-effectiveness as well as preserving.

### **Management of projects:**

- Project Team: A specialized program team will be created, consisting of creators, designers, and executives, liable for system development, layout, and administration.
- Project Timetable: A thorough project timeline with important checkpoints, phases of growth, and anticipated completion times will be prepared.
- Project Scope: Clearly described it will cover front-end and back-end development, designing databases, system architecture, and regular upkeep.
- Resource Allocation: All resources—people, hardware, and software—will be distributed in accordance with the demands of the task at hand.
- Quality Assurance: To guarantee the platform's functionality, safety, and performance, a method for quality control will be put into place.
- Risk Management: The management of risks is doing an evaluation of possible hazards and developing measures to mitigate them.
- Communication strategy: To notify those on the team, stakeholders, and users about project advancement, a well-defined communication strategy will be prepared.

- **Feedback Mechanism:** In order to continuously improve the platform, a system that allows for user input will be in existence.

### **Finances:**

- **Budget Allocation:** A sum of money will be set aside to pay for domain authorization, hosted fees, programming charges, and any prospective marketing expenditures.
- **Funding Sources:** Contributions from backers, grants from institutions, and alliances with charitable foundations or non-governmental organizations are a few possible sources of funding.
- **Financial Sustainability:** The infrastructure will look for ways to make money, including fees on contributions (some of which would go toward system upkeep), advertising, or joint ventures with drug manufacturers.
- **Financial Reporting:** For the sake of transparency and accountability, precise accounting files will be kept, and monetary statements will be produced on a regular basis.
- **Cost-Benefit Analysis:** To evaluate the effectiveness of different fiscal approaches and make sure that funds are used as efficiently as possible, periodic cost and benefits assessments will be carried out.
- **Long-Term Financial Forecasting:** To guarantee the system's expansion and environmental sustainability financial strategy for the future will be essential.

## **1.6 Report Layout**

Subsequently chapters will go into detail regarding the following subjects:

### **Chapter 1: Introduction**

In Chapter 1, I made a trouble to outline the development's morning, relief, pretensions, and anticipated end. The whole notion is ultimately communicated through the document layout.

### **Chapter 2: Background**

This chapter has covered the user's nonfictional terrain. also, I pinpoint and outline the development's related tasks and boundaries. also, the challenges are also described.

### **Chapter 3: Requirements specification**

The functional conditions will constitute the entire subject of this section. simulation of company operations, evaluation of attained criteria, and modelling and description of systems use cases. likewise, a logical information model and specialized specifications are present.

### **Chapter 4: Design Requirements**

The development's design will be addressed in this section. These specifications cover anterior-end, back- end, information architecture, user Experience (UX), and specifications.

### **Chapter 5: Implementation and testing**

This is the point at which the design is complete in its wholeness. Mark down any generalities you have for other enterprise.

### **Chapter 6: Impact on society, environment and sustainability**

Then verily bandy afloat this design social acceptances, effectiveness and sustainability plan

### **Chapter 7: last but not least, Conclusion and future work.**

Here prattle about future strip and deed ending prate.



## **Chapter 2**

### **Background**

#### **2.1 Preliminaries/Terminologies**

A few foundational terminology and terminologies are necessary to comprehend the operation and characteristics of the Online Medicine Donation and Support Systems. Among these words are:

- **Admin:** Stands for the program's manager, who is in charge of organizing members, scheduling meetings, and creating reports in addition to supervising the overall administration of the computer network.
- **Non-Governmental Organizations, or NGO's,** are legally recognized groups that offer aid and social services to society. NGOs can schedule consultations and keep track of the supply using the system in order to accept contributed medications.
- **Members:** These are system participants who have registered and are able to provide necessities like cash, goods, or medications. In addition, they may modify their account information and see their transaction record.
- **Donations:** Describes the financial, material, and medical contributions that members have given.
- **Appointments:** The Administrator schedules and oversees the appointments that NGOs seek in order to get donated medications. They guarantee that gifts are distributed in a methodical and orderly manner.
- **Stock Management:** This function enables non-governmental organizations to maintain an inventory of the medications that have been donated to them.
- **Transparency:** A fundamental principle of the system, which refers to the transparent and responsible management of nominations and donations to guarantee that funds wind up with the intended recipients.
- **Security:** Refers to the safeguards in place, such as confidentiality of information and handling passwords, to secure user information, cash transactions, and the strength of the system in question.

All platform consumers and others must be aware of these prerequisites and jargon in order to ensure effective and meaningful involvement in the procedure of giving and helping people in need while maintaining transparency, responsibility, and confidentiality.

## **2.2 Related Works**

The objective of employing technology to meet healthcare, donation, and social support needs is shared by a number of similar projects and efforts. Below are summaries of a few of these connected pieces:

- The Open Medical Record System, or OpenMRS: A freely available electronic health record (EHR) platform called OpenMRS was created to facilitate the provision of healthcare in settings with limited resources. It makes it possible for healthcare professionals to effectively collect and handle information regarding patients. Its open-source and accessible characteristics are in keeping with the social goals of the Internet Medicine Donation and Support System as a whole even if its primary focus is on medical records.
- GiveIndia: GiveIndia is a well-known internet site that links contributors with several non-governmental organizations and humanitarian issues. Users can donate to a range of programs, such as disaster assistance, healthcare, and education. Its goal is to facilitate contributions to benefit individuals in need, even if it concentrates on monetary donations.
- MedShare: A not-for-profit organization called MedShare is committed to using extra healthcare supplies and equipment for charitable endeavors. It gathers these assets and disperses them to underprivileged areas around the globe. The Online Drug Donation and Support System's emphasis on resource optimization aligns with the focus on reusing medical goods.
- DonorsChoose: A crowdsourcing website called DonorsChoose was created especially for educational initiatives. For school supplies, teachers submit project requests, and funders select which projects to fund. Although it is aimed at educators, it shows how contributors may be connected to particular projects and needs through technology, much like the Online Medicine Donation and Support System's scheduling appointments feature.

- Free Rice: An internet program called Free Rice brings together language study with philanthropic contributions. Users respond to terminology questions, and the World Food Programme receives a donation of rice from the site for each right response. This initiative demonstrates creative approaches to user engagement with a compassionate goal.
- GoodRx: Users may use the GoodRx app and website to compare the cost of prescription drugs at local pharmacies and discover the best deals. It lowers the cost of healthcare by offering vouchers and reductions. It's not a forum for donations, but making prescription drugs more affordable, it helps ensure that medication is available to all.
- Charity Navigator: available at A well-known website that assesses and ranks nonprofits according to their financial stability, openness, and commitment to accountability is called Charity Navigator, Inc It supports contributors in making well-informed choices about the use of their donations.
- WorldwideGiving: A worldwide website for crowdsourcing, GlobalGiving links contributors with local initiatives all around the world. It is a broad supporter of many causes, ranging from economic growth and disaster assistance to educational opportunities and medical care.
- BloodDonors: An Indian portal called Blood Donors links blood donors with those who require transfusions. Users can sign up as donors and look for donors in their area in the present moment.
- Direct Relief – <https://www.directrelief.org> – A not-for-profit group called Direct Relief offers medical aid to those impacted by catastrophes and unemployment in order to enhance their lives and health. They strive to offer vital medical supplies to healthcare practitioners in under resourced locations.
- Benevity: Online at A company's corporate social responsibility (CSR) system called Benevity assists businesses in managing their charitable endeavors. It offers organizations resources for donating and giving back, as well as enabling staff members to support issues close to their hearts.
- 12. 2-1-1: The 2-1-1 hotline and website serve as a conduit for Americans seeking to access vital neighborhood services such as housing aid, medical care, and beyond. For those in need, it is an essential resource.

From the availability of healthcare and clinical help to educational support, aid for disasters, and enterprise community for corporations, these organizations and services address a broad range of charity endeavors. They are an invaluable source of inspiration for the creation of initiatives such as the Internet Medicine Collection and Support System, demonstrating how technology and Internet networks can be used for the benefit of society.

These linked initiatives highlight several facets of humanitarian assistance, including maximizing resource utilization, healthcare access, and educational help. The Online Medicine Contribution and Assistance System supports these initiatives by emphasizing effective and transparent contribution administration to help those who require assistance and showcasing how innovation can be used to solve problems affecting humanity.

### **2.3 Comparative Analysis**

The unique qualities and attributes that distinguish the Online Medicine Donation and Support System are made clear through a comparison with comparable platforms. While many medical and philanthropic projects concentrate on certain components of aid, such as support for schooling, pharmaceutical savings, or providing blood, the Online Medicine Donation and Support System provides a comprehensive approach to meeting a variety of compassionate requirements. The integration of goods. Additionally, financial, and medical donations into one website emphasizes the fact that the problems faced by marginalized people frequently overlap and the need for a diverse approach to resolution. This breadth sets it apart from competing systems and emphasizes its ability to adjust to a wide range of beneficiary demands. Furthermore, the system carefully adheres to humanitarian best practices, guaranteeing that contributions are both efficient and secure, thanks to its emphasis on transparency, quality control, and transparent schedule administration. Additionally, it is positioned for long-term development and impact due to its dedication to being financially viable through possible financing sources including partnerships and transaction fees. The Online Medicine Donate and Support Program is a potent illustration of how innovation can bring together donors, NGOs, and authorities in tackling complex humanitarian situations because of its all-encompassing methodology and dedication to sustainability and accessibility. By doing this, it breaks through the limitations of systems that

focus on a single issue and offers a cutting-edge strategy for improving the lives of individuals who are struggling in a way that is both beneficial and long-lasting.

## **2.4 Scope of the Problem**

The Online Medicine Donation and Support System attempts to tackle a significant and complex situation. It includes the difficulties experienced by marginalized people who are unable to obtain basic goods, financial assistance, and necessary medications. This is not a local problem; rather, it is a global one, impacting populations everywhere due to differences in social assistance as well as access to treatment. The subject encompasses concerns related to the charitable sector's oversight, openness, and resource efficiency. In order to effectively link funders, NGOs, and administration and work together to address these difficulties, an entire platform is required due to systemic inefficiency and limited access to essential resources. In addition to strict inspections of quality, open booking of appointments, and a dedication to long-term sustainable operation, the organization offers a single location for donations of goods, medication, and other supplies. Its goal is to make a major and long-lasting difference in this complex issue and promote a society that is more just and empathetic.

## **2.5 Challenges**

An Online Multifaceted Donation System may face a number of difficulties during development and maintenance. These issues must be recognized and resolved in order for the project to be implemented successfully. Among the principal difficulties are:

- It is crucial to guarantee the efficacy and effectiveness of donated medications. To stop giving away outdated or subpar goods, the system must set up strong procedures to confirm the authenticity and appropriateness of donated medications.
- It's critical to safeguard private and sensitive user information. To ensure the fulfillment of regulations pertaining to data protection and preserving personal and health-related data, the system must have robust security mechanisms.
- It may be difficult to navigate the many legal and regulatory obligations, particularly when it comes to the donation of medications and dealings with money. The system has to abide by all applicable laws and rules, which might change depending on the location.

- It might be difficult to manage the system's revenues, including transaction fees, sponsorships, and partnerships while upholding accountability and openness. It is a constant struggle to strike a balance between the platform's humanitarian objectives and its capacity to make money.
- Encouraging users to interact with the system and participate might provide challenges. For the initiative to draw in and keep executives, NGOs, and sponsors, it will be necessary to use efficient marketing and communication techniques.
- As the system becomes more widely used, it may become more difficult to scale it up while retaining its efficacy and efficiency. In order to accommodate growing demand, infrastructure for technology and user assistance must be ready.
- It might be challenging to guarantee both successful cooperation and active NGO engagement. The platform must be designed in a way that incentivizes non-governmental organizations to use it for appointments and contributions.
- Instruction on how to operate the system efficiently may be needed by users. The project ought to offer materials that are easy to employ and assistance for any problems or inquiries.
- It's critical to build trust across users, particularly funders. To establish and preserve systemic confidence transparency and responsibility in the management of donations are essential.
- The success of the platform depends on fostering a feeling like community among users, leaders, and non-governmental organizations. It could be necessary to implement tactics that promote communication and teamwork.

## Chapter 3

### Requirement Specification

#### 3.1 Business Process Modeling

An Online Multifaceted Donation System's modeling of business processes entails a methodical depiction of the complete contribution lifecycle, including registration for users to the delivery of contributed goods. After the registration of users, information about donations is submitted, NGOs' memberships are approved, and contribution requests are managed. Finance handling of transactions, clear booking of appointments, and assurance of quality inspections for supplied medications are important procedures. To guarantee effective cooperation, the technology also makes communication between users, administrators, and NGOs easier. Creating a smooth, transparent, and responsible procedure that maximizes the contribution and delivery of medications, cash, and goods to those struggling while upholding strict ethical and openness requirements is the primary goal of this design.

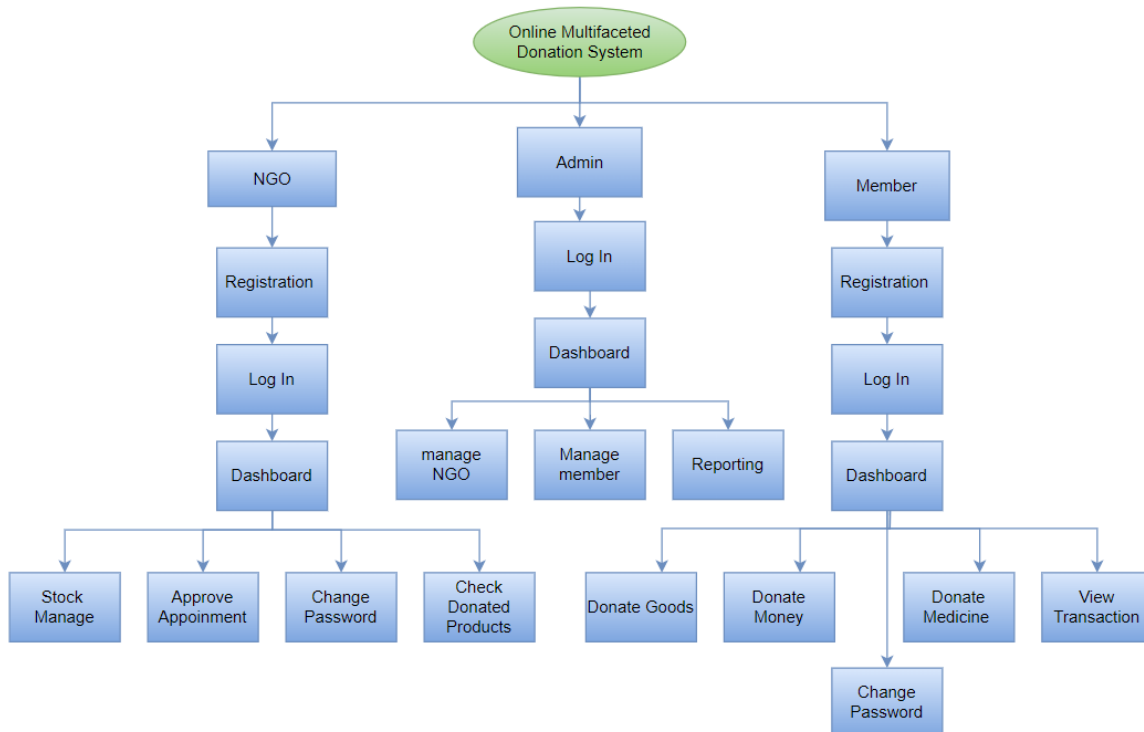


Figure 3.1 Business Process Modeling Diagram

### 3.2 Requirement Collection and Analysis

An important stage of the construction process for the Online Pharmaceutical Donation System is Information Collecting and Assessment, which focuses on obtaining and comprehending the requirements and expectations of many stakeholders. This includes:

- Addressing the particular criteria of each user type, such as members, NGOs, and administrators, is necessary. To meet their specific needs, this entails designing user roles, rights, and functionalities. Instruments for user administration, reporting, and reservation approval may be needed by the administrator. While Consumers need an easy-to-use giving mechanism, NGOs can need capabilities like time scheduling and management of supplies.
- Specifying the functional necessities for the system, such as setting up appointments, assurance of quality checks, account creation, contribution submission, clear appointment acceptance, and financial transaction administration. Users' cooperation and cooperation must be made easy by the system.
- Determining non-functional elements, including safety protocols to safeguard user information and transaction truthfulness, performance standards to manage possible scalability, adherence to regulatory and legal requirements, and gadget responsiveness of the system as a whole.
- Outlining the rules and procedures for quality control examinations of donated medications, guaranteeing that only suitable and safe contributions are given out.
- Establishing financial needs, such as financing sources, allocation of budget, and sustainable economic plans. To sustain the long-term functioning of the system, this involves establishing prospective transaction expenses, advertisements, and collaborations.
- The management of information requirements includes defining data management procedures, information confidentiality compliance, and data protection and retrieving methods.
- Defining the capabilities and assets needed for users, executives, and non-governmental organizations to communicate and work together in order to promote engagement and cooperation.
- Specifying the assistance and educational resources required to teach users how to operate the system efficiently.



- Determining and abiding by pertinent legal and regulatory demands, such as those pertaining to money transactions, safeguarding information, and pharmaceutical contributions.
- Outlining the technological infrastructure, organizing, and technical assistance required to handle an expanding customer base in order to get ready for the system's possible growth.

### 3.3 Use Case Modeling and Description

For An Online Multifaceted Donation System, the case modeling and explanation entail showing how different actors communicate with the structure in order to accomplish particular objectives.

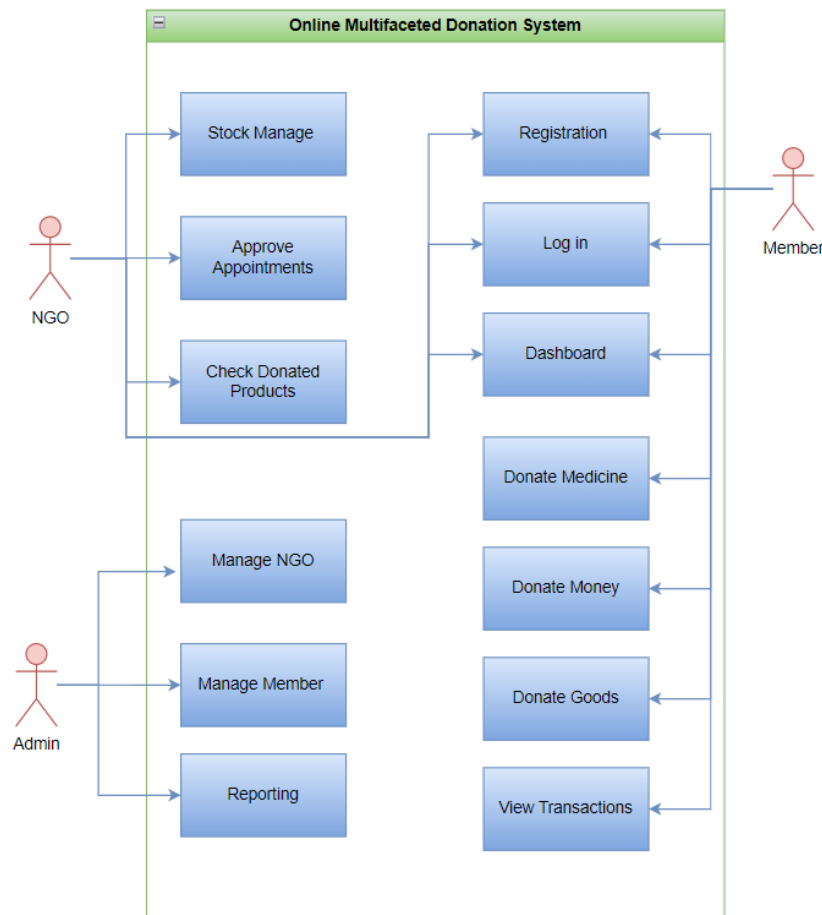


Figure 3.3 Use Case Modeling Diagram

### **3.4 Logical Data Model**

The framework and structure of the information contained within the system are described in the Logical Information Model for An Online Multifaceted Donation System, concentrating on the relationships and characteristics that characterize the various entities. Important entities include Announcements; Meetings; Donations; Drugs; and Users (including Members and Nonprofit Organizations). User characteristics include contact details, designation, and user ID. Information on donated goods, including item name, amount, and donation time, is included in the statistics on medications, cash, and apparel. Scheduled pharmaceutical pickups are indicated by appointments that connect NGOs and the Administration. The type, amount, and expiry date of medications are all stored in the pharmaceutical entity. Data from the Sessions entity is used to create periodic activity statistics. In order to guarantee the system's smooth functioning and make a contribution and distribution procedures visible as well as successful, the model places a strong emphasis on the reliability of data, accountability, and effective administration.

### **3.5 Design Requirement**

An Online Multifaceted Donation System in Bangladesh design requirements call for the development of a secure, user-friendly, and responsive web-based application. A user interface that is easy to use should be given top priority in the layout in order to facilitate exploration and guarantee cross-platform accessibility. To protect user data and transactions honesty and security procedures are essential. These include encryption of data and user authentication. As the system expands, the architecture must provide adaptability in order to handle an increasing population of users and higher data quantities. Furthermore, the design must be flexible enough to conform to changing technological standards and expandable enough to support future upgrades and additions to the platform. It should be in line with the platform's objective of encouraging responsibility, openness, and exceptional control, which will eventually guarantee a smooth and effective experience for all parties engaged in the aid and contribution procedures.

## Chapter 4

### Design Specification

#### 4.1 Front-end Design

##### 4.1.1 Homepage

This is our home page section. Here separate users can log in to our system. I have three different sections Admin panel, Ngo panel, and Members panel. The beginning of our system here describes our website details as if any new user can understand our motive.

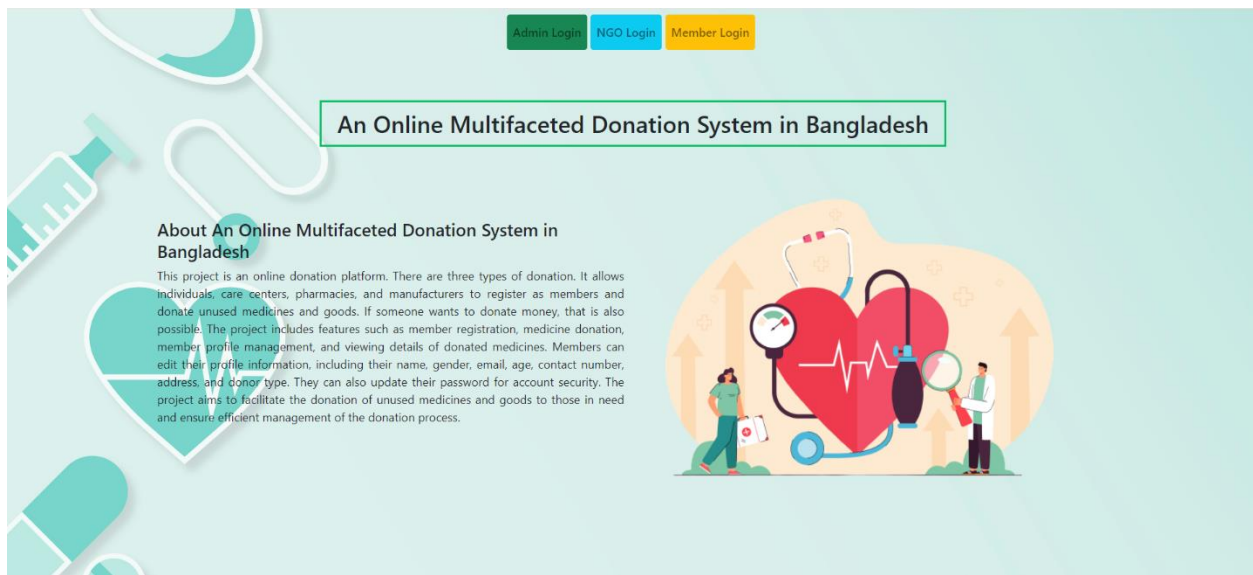


Figure 4.1 Homepage

##### 4.1.2 Admin Log in

After clicking the admin login button user can see this dashboard. This panel is only for our admin here he or she can provide a username and password.

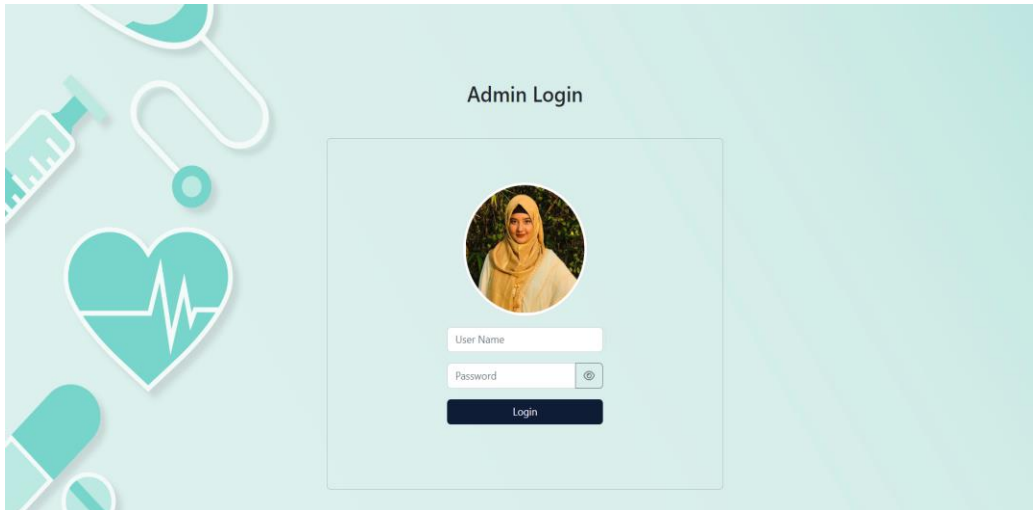


Figure 4.2 Admin Log in

#### 4.1.3 NGO Log in

After clicking the NGO Login button user can see this dashboard. This panel is only for our NGO. Here NGO can provide a username and password. If any NGO cannot be registered here then click Create Account. After registering an account using Email and password Ngo can Log in to our system.

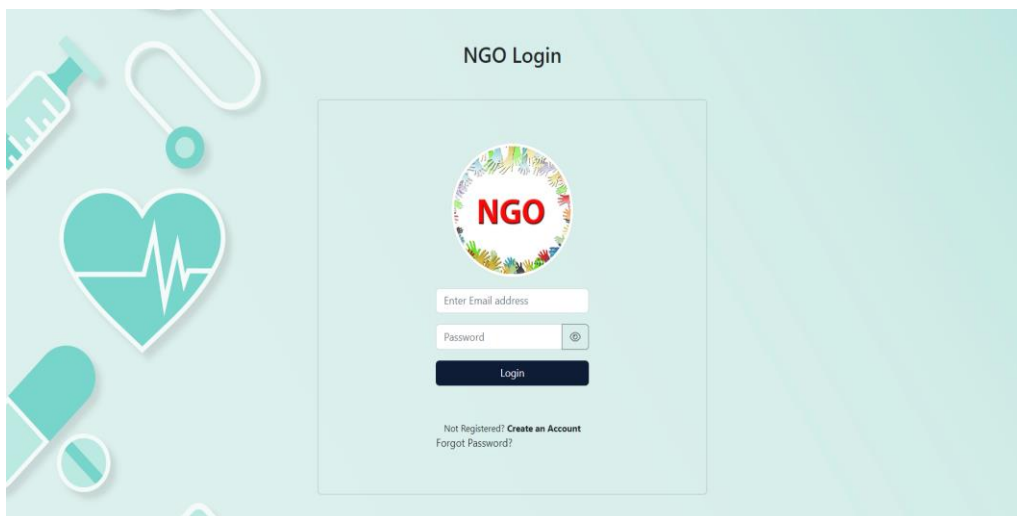


Figure 4.3 NGO Log in

#### 4.1.4 Member Log in

This is our member login dashboard. Here members have to provide their username and password for entering our system. If this member doesn't have an account, then he or she must be registered an account using their details and mail password. And if any registered member forgot their password, then I have an option “Forgot password” for resetting password.

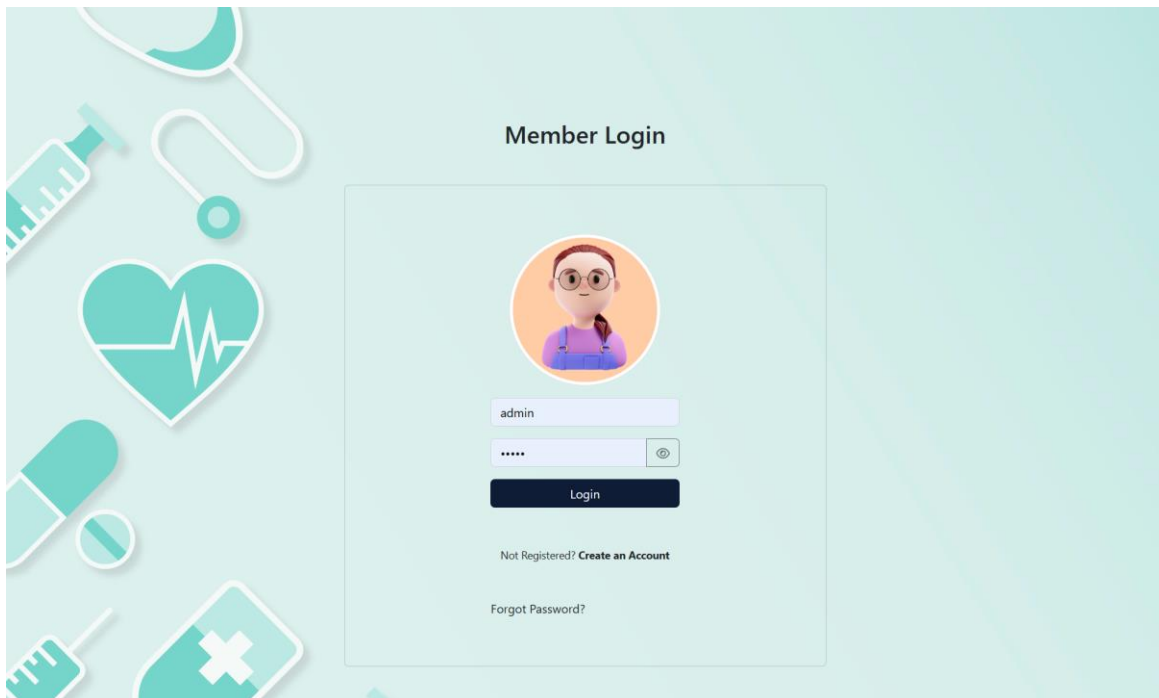


Figure 4.4 Member Log in

#### 4.1.5 Admin Dashboard

This is our admin dashboard. Here admin can manage profile, manage members, manage NGO, manage medicine approval, manage goods and money approval. Shortly admin can manage our whole system. In this Admin dashboard homepage describe about unused medicine donation system.

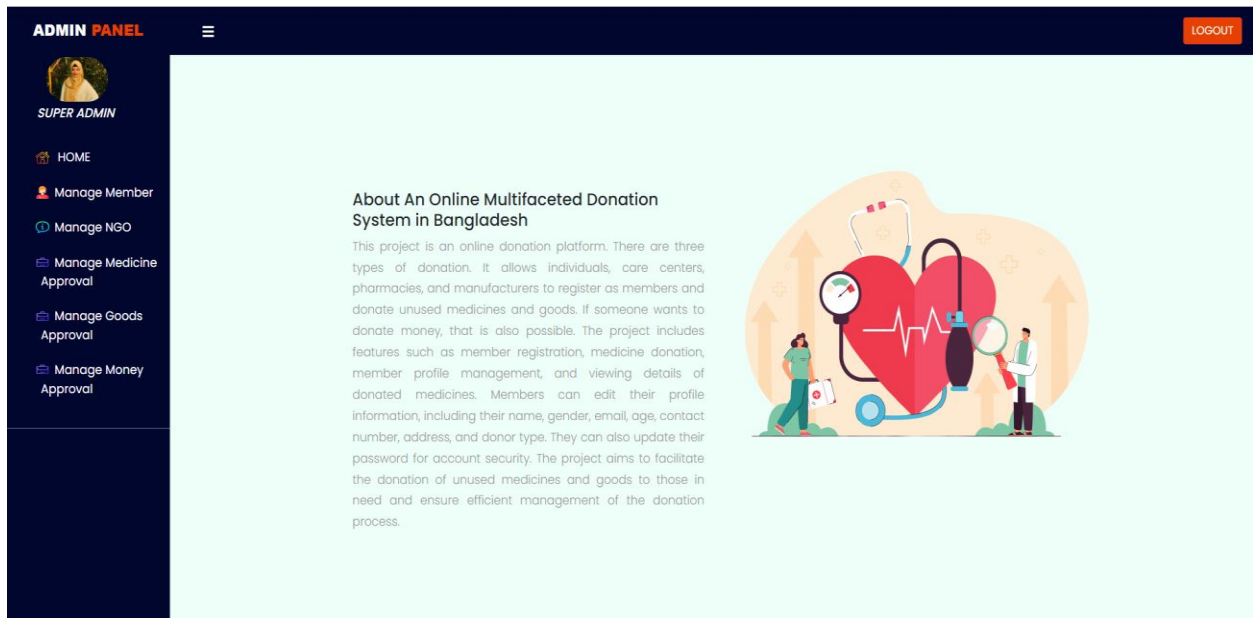


Figure 4.5 Admin Dashboard

#### 4.1.6 NGO Dashboard

This is our NGO dashboard. Here NGO can manage medicine, goods and money stock. NGO can change password and can log out after checking and updating all information's.

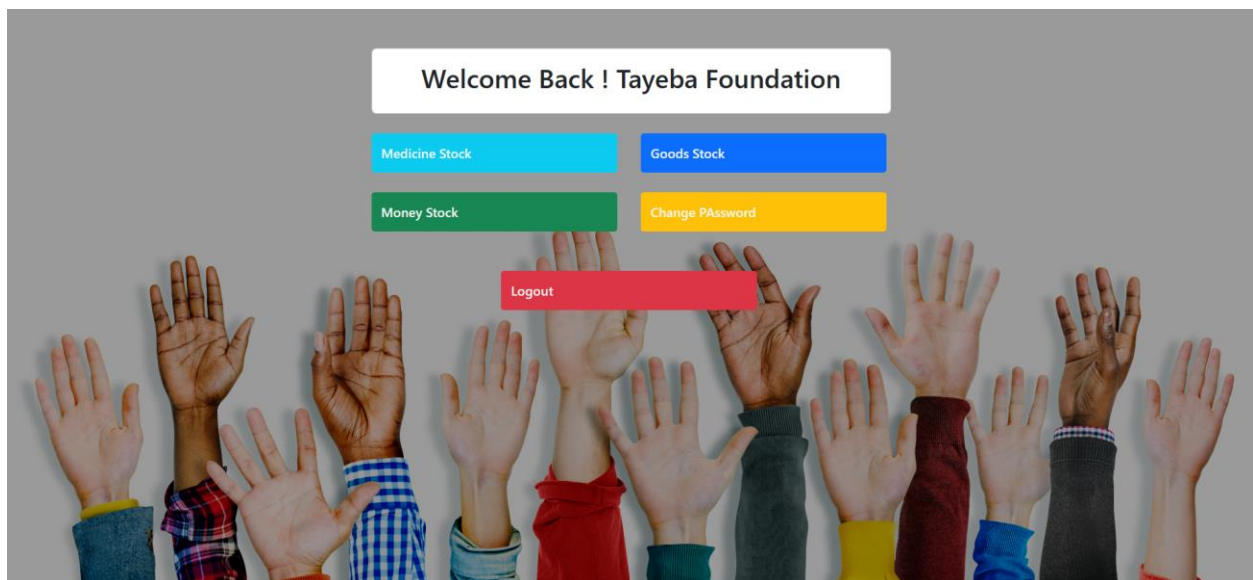


Figure 4.6 NGO Dashboard

#### 4.1.7 User Dashboard

This is our member dashboard. Member can donate medicine, goods, and money also members have medicine Transaction, money and goods transaction end. User can change password and logout after finishing their need.

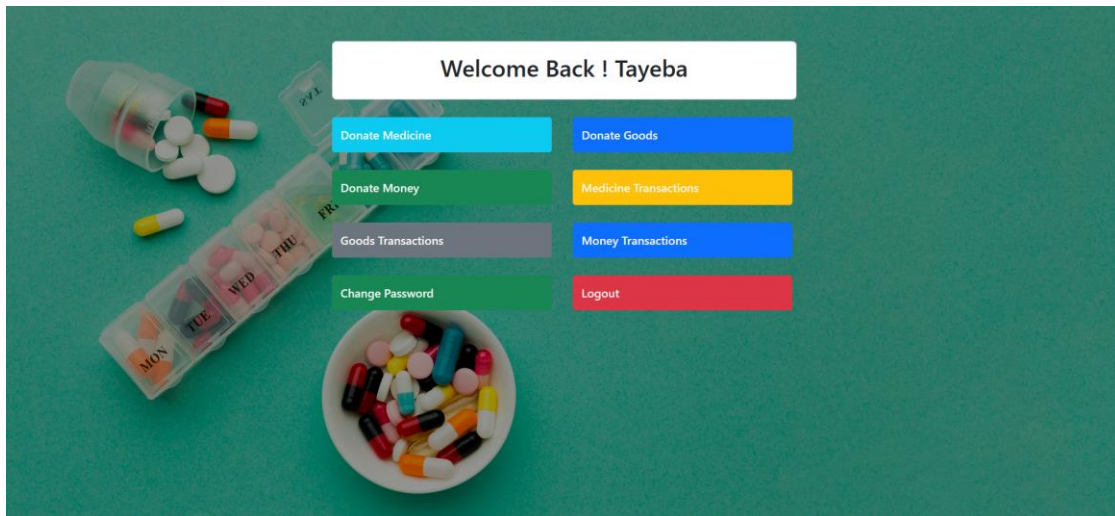


Figure 4.7 User Dashboard

#### 4.1.8 Manage Member

This is the manage member dashboard. Admin can manage systems members. Check their details and if needed delete the user.

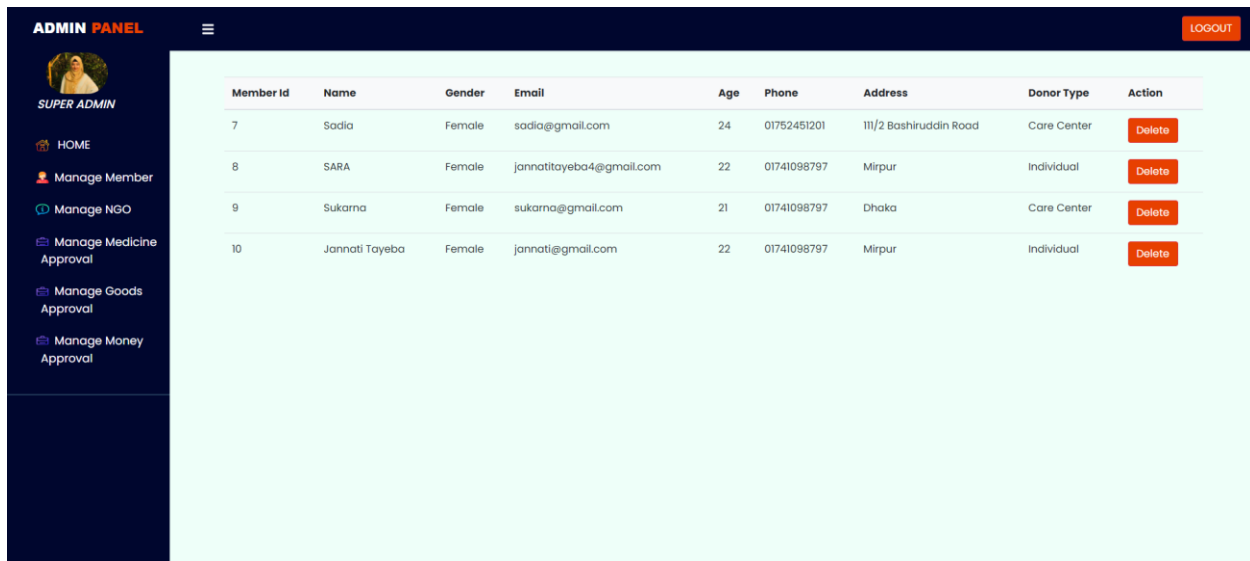


Figure 4.8 Manage Member

## 4.1.9 Manage NGO

Here is the managed NGO dashboard. Admin can check all NGO details and can delete NGO.

NGO Id	NGO Name	NGO Location	NGO Email	Action
4	Foundation	Dhaka, Bangladesh	jannatitayeba4@gmail.com	Delete
5	Abalamban NGO	Faridpur, Bangladesh	abalamban@gmail.com	Delete
6	Abohalito Nari O Shishu Kallan Songsta	Jamalpur, Bangladesh	nariosishu@gmail.com	Delete
7	Adarsha Seba Sangstha	Rajshahi, Bangladesh	adarsha@gmail.com	Delete
8	BD Help Center	Savar	jannatitayeba4@gmail.com	Delete
9	BD Help Center	Mirpur	ab@gmail.com	Delete

Figure 4.9 Manage NGO

## 4.1.10 Manage Medicine Approval

This is the medicine approval dashboard. Admin can approve or reject medicine After checking description and all other details.

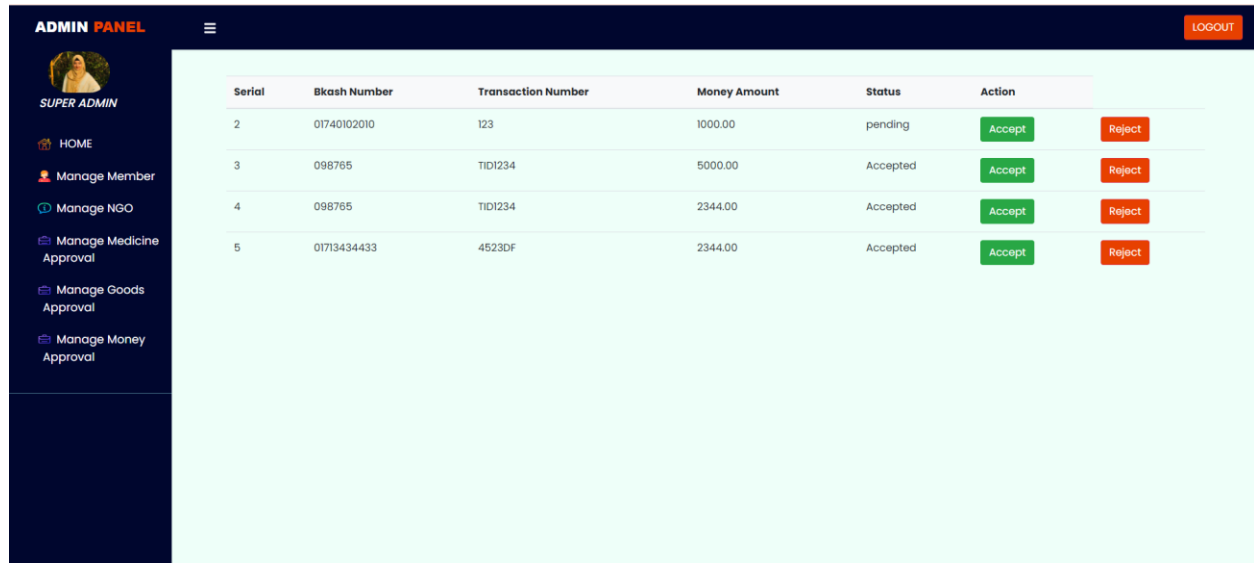
Serial	Medicine Name	Medicine Count	NGO Name	Purchased Date	Expiry Date	Details	Status	Action
9	Flexi	10 pics	Adarsha Seba Sangstha	2023-06-14	2023-06-30	i have 10 pics Flexi and i want to donate this	Accepted	Accept Reject
10	Geston	8 Pics	A.B. Foundation	2023-06-12	2023-06-28	i have 8 Pics Geston and i want to donate this	Accepted	Accept Reject
11	Flonasin	2 pics	Abohalito Nari O Shishu Kallan Songsta	2023-06-12	2023-06-26	i have 2 pics Flonasin and i want to donate this	Accepted	Accept Reject
12	Algin	2 pics	Adarsha Seba Sangstha	2023-07-03	2023-07-28	i have 10 pics Algin and i want to donate this	Accepted	Accept Reject
15	demo	10	A.B. Foundation	2023-08-13	2023-08-31	demo	Accepted	Accept Reject
16	test	10	Abohalito Nari O Shishu Kallan Songsta	2023-08-13	2023-08-23	test	Accepted	Accept Reject
18	Bilastin 20	10	8	2023-02-24	2025-06-24	Nothing	Accepted	Accept Reject
19	Napa	23	7	2023-01-29	2024-10-15	Nothing	Accepted	Accept Reject
20	napa	3	8	2024-01-09	2024-02-09	Nothing	Accepted	Accept Reject

Figure 4.10 Manage Medicine Approval



#### 4.1.11 Manage Money Approval

This is the money approval dashboard. Admin can approve or reject money After checking description and all other details.

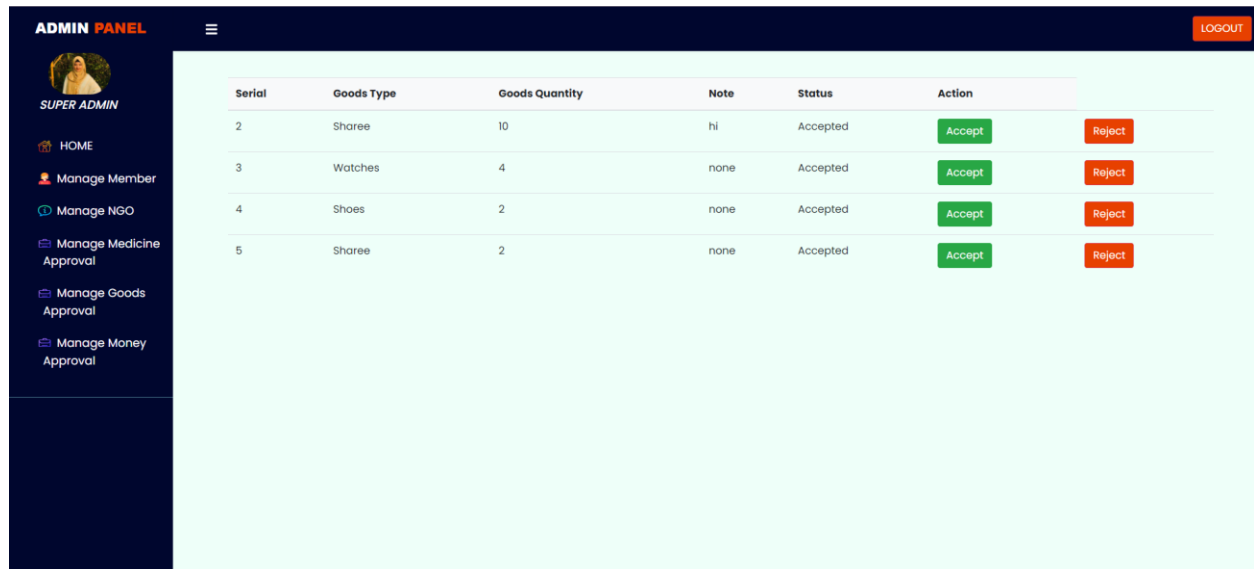


Serial	Bkash Number	Transaction Number	Money Amount	Status	Action
2	01740102010	123	1000.00	pending	<a href="#">Accept</a> <a href="#">Reject</a>
3	098765	TID1234	5000.00	Accepted	<a href="#">Accept</a> <a href="#">Reject</a>
4	098765	TID1234	2344.00	Accepted	<a href="#">Accept</a> <a href="#">Reject</a>
5	01713434433	4523DF	2344.00	Accepted	<a href="#">Accept</a> <a href="#">Reject</a>

Figure 4.11 Manage Money Approval

#### 4.1.12 Manage Goods Approval

This is the goods approval dashboard. Admin can approve or reject goods After checking the description and all other details.

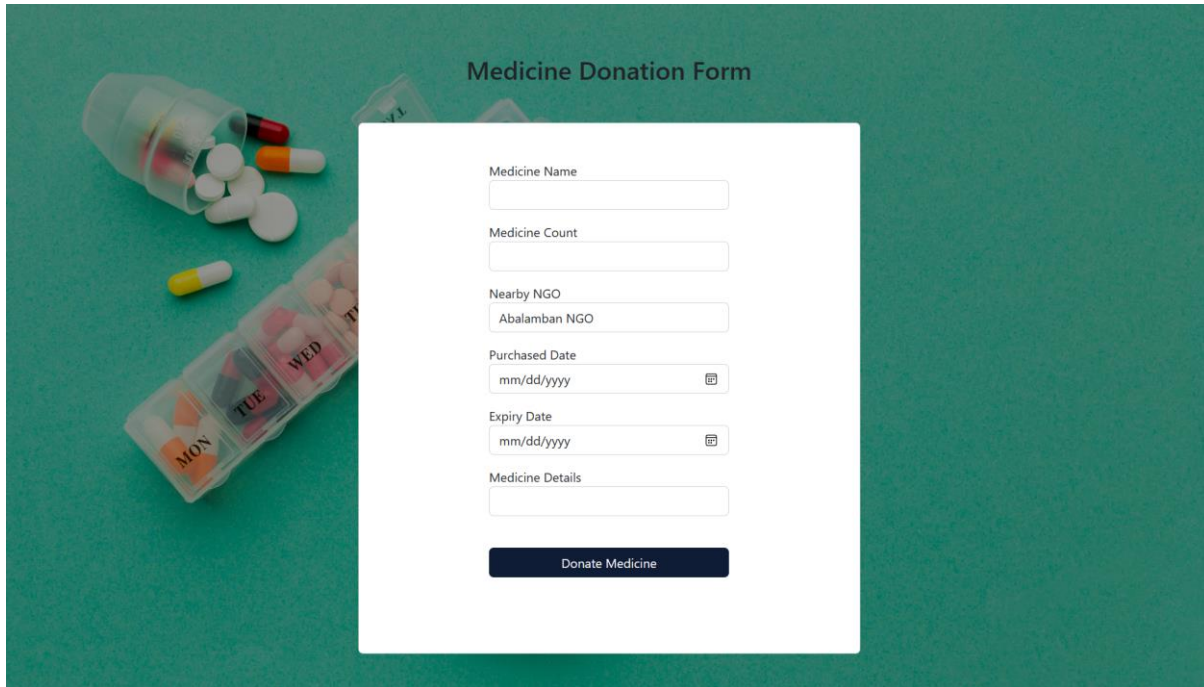


Serial	Goods Type	Goods Quantity	Note	Status	Action
2	Sharee	10	hi	Accepted	<a href="#">Accept</a> <a href="#">Reject</a>
3	Watches	4	none	Accepted	<a href="#">Accept</a> <a href="#">Reject</a>
4	Shoes	2	none	Accepted	<a href="#">Accept</a> <a href="#">Reject</a>
5	Sharee	2	none	Accepted	<a href="#">Accept</a> <a href="#">Reject</a>

Figure 4.12 Manage Goods Approval

### 4.1.13 Donate Medicine

This is the donate medicine dashboard. Following all those steps members can donate medicines.

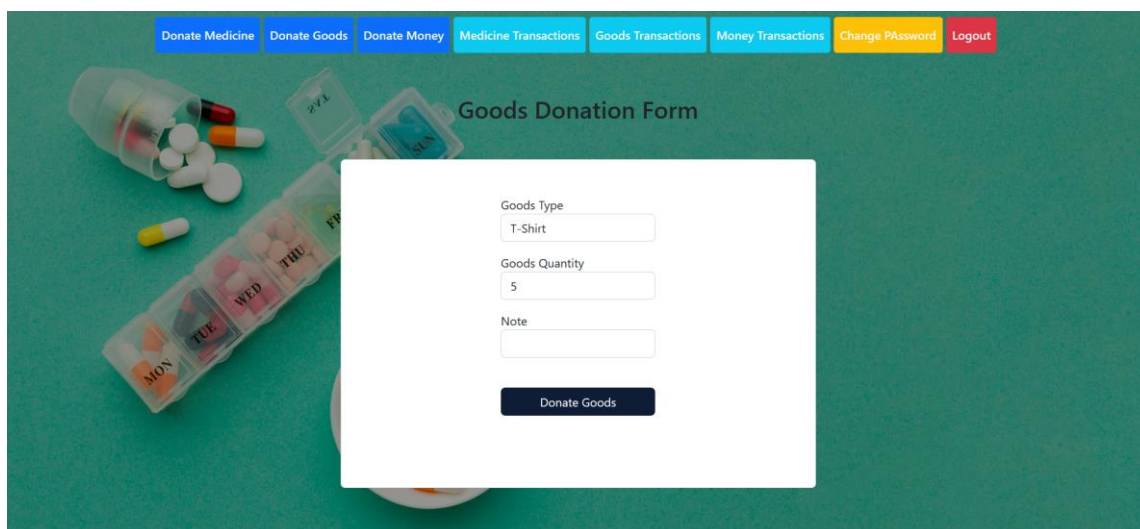


The screenshot shows a 'Medicine Donation Form' overlaid on a background image of medicine bottles and pills. The form is a white box with the following fields: 'Medicine Name' (text input), 'Medicine Count' (text input), 'Nearby NGO' (text input with 'Abalamban NGO' as a placeholder), 'Purchased Date' (date picker with 'mm/dd/yyyy' format), 'Expiry Date' (date picker with 'mm/dd/yyyy' format), and 'Medicine Details' (text input). A dark blue button labeled 'Donate Medicine' is at the bottom.

Figure 4.13 Donate Medicine

### 4.1.14 Donate Goods

This is the donate goods dashboard. Following all those steps members can donate goods.



The screenshot shows a 'Goods Donation Form' overlaid on a background image of medicine bottles and pills. At the top, there is a navigation bar with buttons for 'Donate Medicine', 'Donate Goods', 'Donate Money', 'Medicine Transactions', 'Goods Transactions', 'Money Transactions', 'Change Password', and 'Logout'. The form is a white box with the following fields: 'Goods Type' (text input with 'T-Shirt' as a placeholder), 'Goods Quantity' (text input with '5' as a placeholder), and 'Note' (text input). A dark blue button labeled 'Donate Goods' is at the bottom.

Figure 4.14 Donate Goods

#### 4.1.15 Donate Money

This is the donate money dashboard. Following all those steps members can donate money.

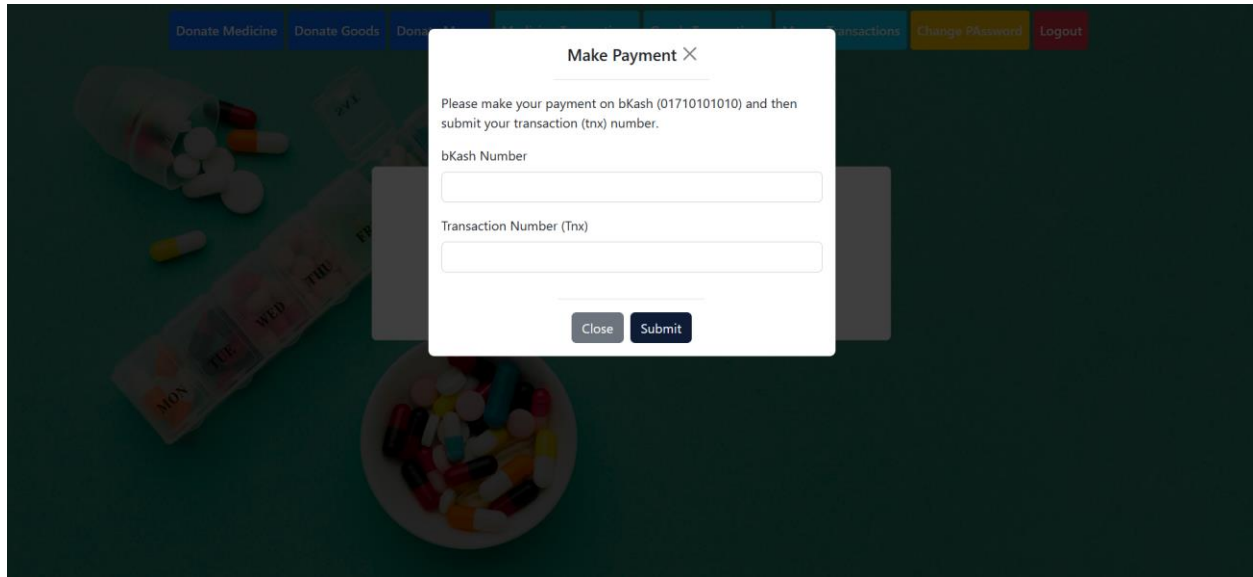


Figure 4.15 Donate Money

#### 4.1.16 Medicine Transaction

This is the medicine transaction dashboard. Here visible all the details information's.

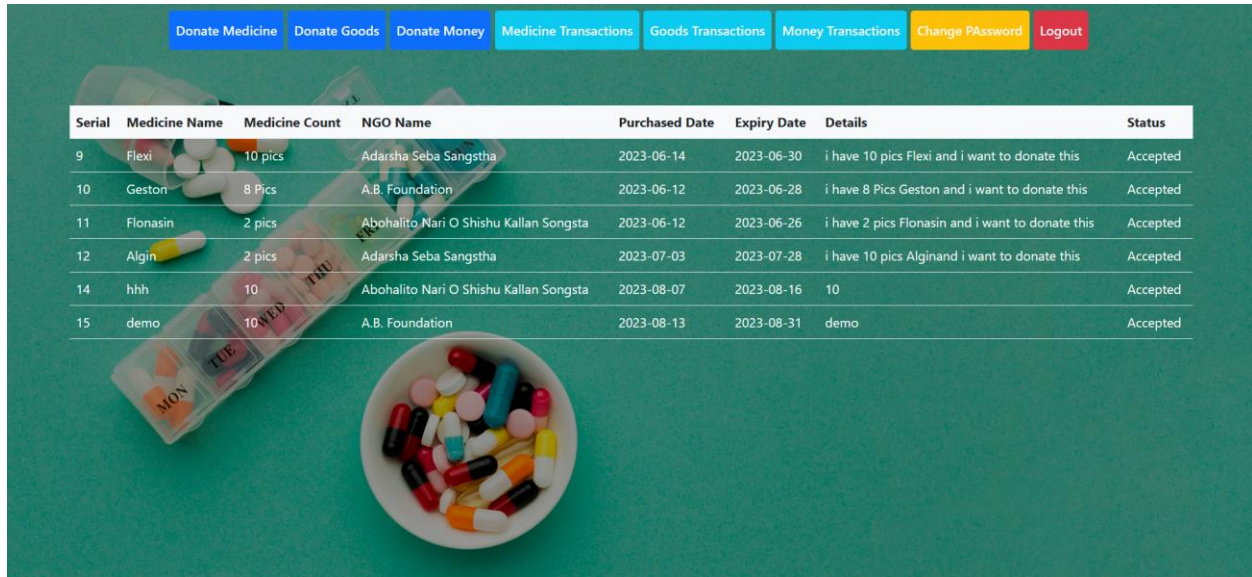
A screenshot of a web application interface showing the 'Medicine Transactions' dashboard. The dashboard has a dark green background with a blurred image of a pillbox and a bowl of pills. At the top, there are navigation buttons: 'Donate Medicine', 'Donate Goods', 'Donate Money', 'Medicine Transactions', 'Goods Transactions', 'Money Transactions', 'Change Password', and 'Logout'. Below the navigation is a table with the following data:

Serial	Medicine Name	Medicine Count	NGO Name	Purchased Date	Expiry Date	Details	Status
9	Flexi	10 pics	Adarsha Seba Sangstha	2023-06-14	2023-06-30	i have 10 pics Flexi and i want to donate this	Accepted
10	Geston	8 Pics	A.B. Foundation	2023-06-12	2023-06-28	i have 8 Pics Geston and i want to donate this	Accepted
11	Flonasin	2 pics	Abahalito Nari O Shishu Kallan Songsta	2023-06-12	2023-06-26	i have 2 pics Flonasin and i want to donate this	Accepted
12	Algin	2 pics	Adarsha Seba Sangstha	2023-07-03	2023-07-28	i have 10 pics Alginand i want to donate this	Accepted
14	hhh	10	Abahalito Nari O Shishu Kallan Songsta	2023-08-07	2023-08-16	10	Accepted
15	demo	10	A.B. Foundation	2023-08-13	2023-08-31	demo	Accepted

Figure 4.16 Medicine Transaction

#### 4.1.17 Goods Transaction

This is the goods transaction dashboard. Here shows all kinds of details.

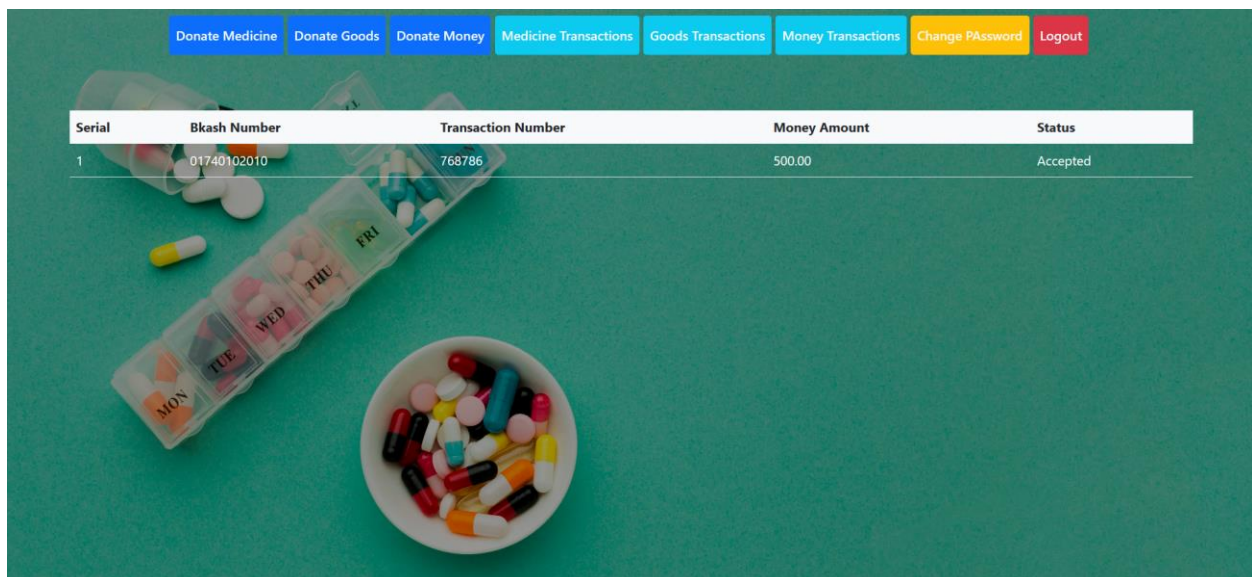


Serial	Medicine Name	Medicine Count	NGO Name	Purchased Date	Expiry Date	Details	Status
9	Flexi	10 pics	Adarsha Seba Sangstha	2023-06-14	2023-06-30	i have 10 pics Flexi and i want to donate this	Accepted
10	Geston	8 Pics	A.B. Foundation	2023-06-12	2023-06-28	i have 8 Pics Geston and i want to donate this	Accepted
11	Flonasin	2 pics	Abohalito Nari O Shishu Kallan Songsta	2023-06-12	2023-06-26	i have 2 pics Flonasin and i want to donate this	Accepted
12	Algin	2 pics	Adarsha Seba Sangstha	2023-07-03	2023-07-28	i have 10 pics Alginand i want to donate this	Accepted
14	hhh	10	Abohalito Nari O Shishu Kallan Songsta	2023-08-07	2023-08-16	10	Accepted
15	demo	10	A.B. Foundation	2023-08-13	2023-08-31	demo	Accepted

Figure 4.17 Goods Transaction

#### 4.1.18 Money Transaction

This is the money transaction dashboard.



Serial	Bkash Number	Transaction Number	Money Amount	Status
1	01740102010	768786	500.00	Accepted

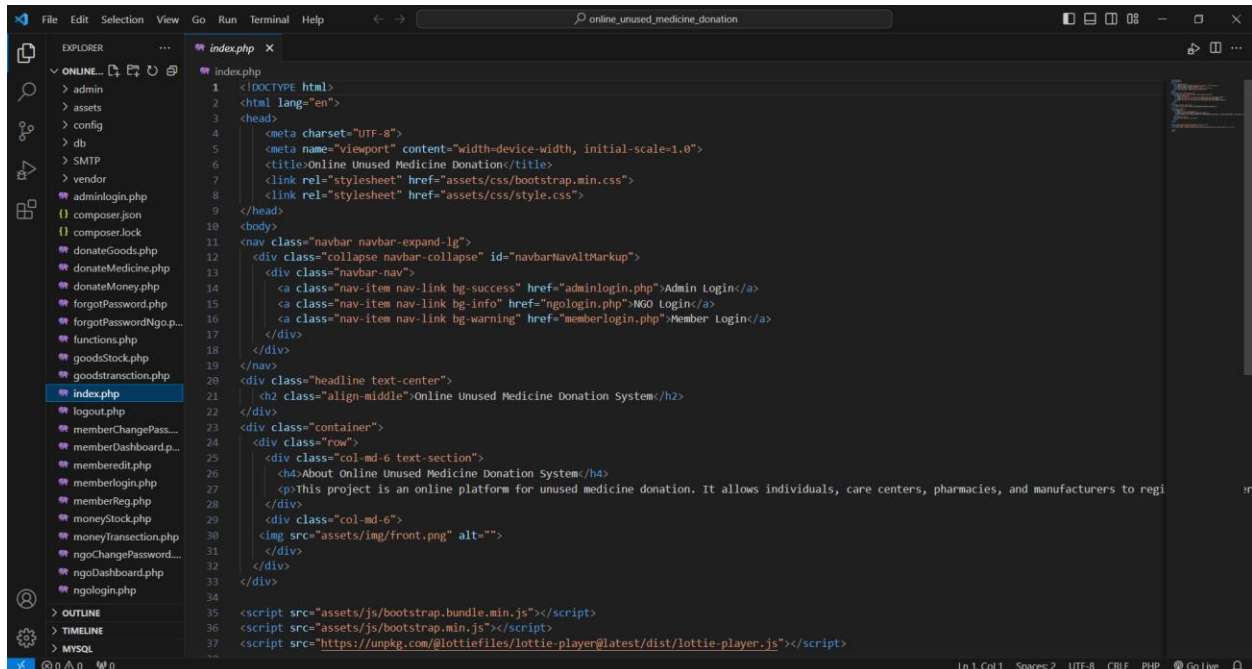
Figure 4.18 Money Transaction

## 4.2 Back-end Design

An Online Multifaceted Donation System's back-end architecture calls for building a reliable and expandable network of servers. It includes creating database schemas to handle important information like as appointment schedules, contributions, account histories, and medication information. Implementation logic for enrollment of users, contribution processing, booking appointments, and performance assurance inspections is integrated into the back end. It is in charge of putting safety measures in place, such as logins and data secrecy, to guarantee the safety and security of private information. In addition, the front-end and server may communicate using APIs built into the back-end architecture, allowing for instantaneous communication and information retrieval. The system's functioning relies heavily on an organized, effective back end, which supports the platform's safe, transparent management and promotes straightforward communication between individuals, supervisors, and non-governmental organizations.

### 4.2.1 Visual Studio Code

In this project, I mainly use HTML, CSS, JavaScript, and PHP for development. For editing and managing the codes I use Visual Studio Code.



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Online Unused Medicine Donation</title>
7   <link rel="stylesheet" href="assets/css/bootstrap.min.css">
8   <link rel="stylesheet" href="assets/css/style.css">
9 </head>
10 <body>
11 <nav class="navbar navbar-expand-lg">
12   <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
13     <div class="navbar-nav">
14       <a class="nav-item nav-link bg-success" href="adminlogin.php">Admin Login</a>
15       <a class="nav-item nav-link bg-info" href="ngologin.php">NGO Login</a>
16       <a class="nav-item nav-link bg-warning" href="memberlogin.php">Member Login</a>
17     </div>
18   </div>
19 </nav>
20 <div class="headline text-center">
21   <h2 class="align-middle">Online Unused Medicine Donation System</h2>
22 </div>
23 <div class="container">
24   <div class="row">
25     <div class="col-md-6 text-section">
26       <h3>About Online Unused Medicine Donation System</h3>
27       <p>This project is an online platform for unused medicine donation. It allows individuals, care centers, pharmacies, and manufacturers to regi
28     </div>
29     <div class="col-md-6">
30       
31     </div>
32   </div>
33 </div>
34
35 <script src="assets/js/bootstrap.bundle.min.js"></script>
36 <script src="assets/js/bootstrap.min.js"></script>
37 <script src="https://unpkg.com/@lottiefiles/lottie-player@latest/dist/lottie-player.js"></script>
```

Figure 4.19 Visual Studio Code

## 4.2.2 Live Server

I use the XAMPP management interface to run our app's code.

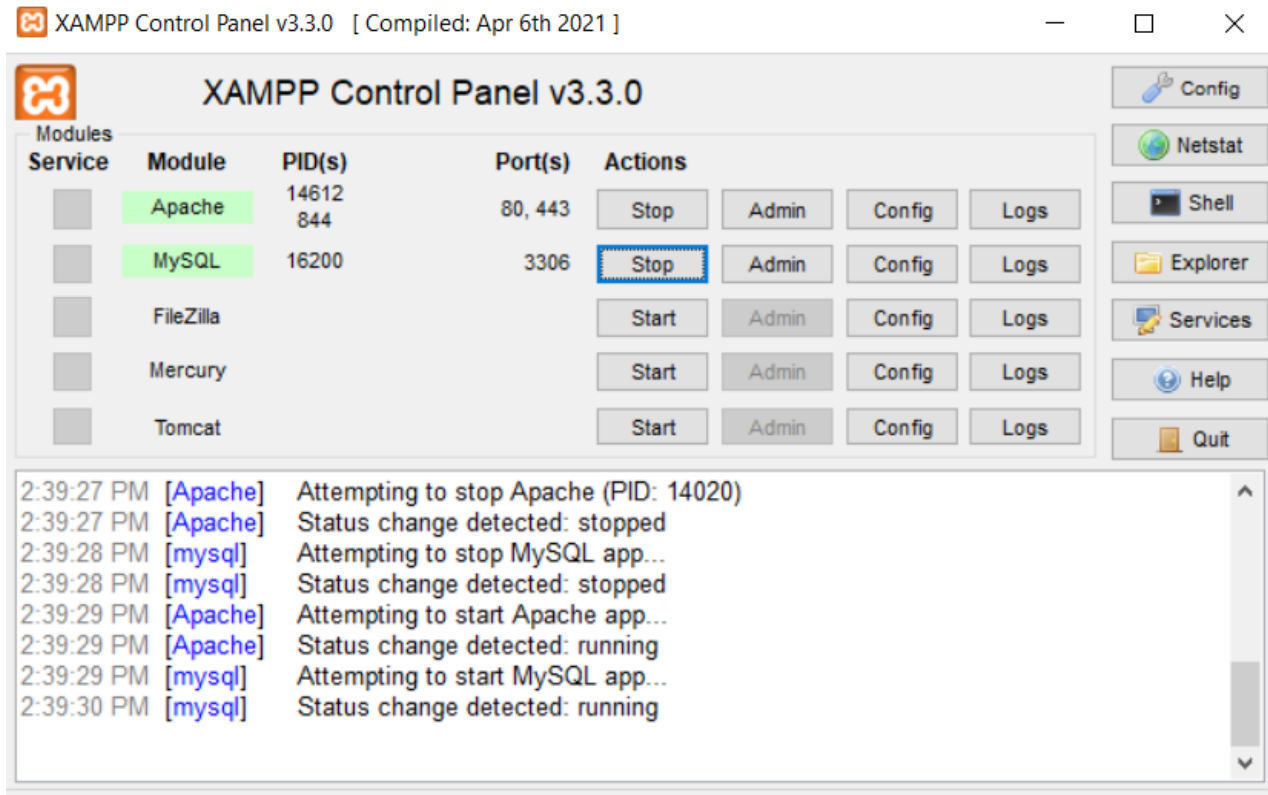


Figure 4.20 Live Server

## 4.2.3 Manage Database

To organize my website evidence file, I use PhpMyAdmin and MySQL.

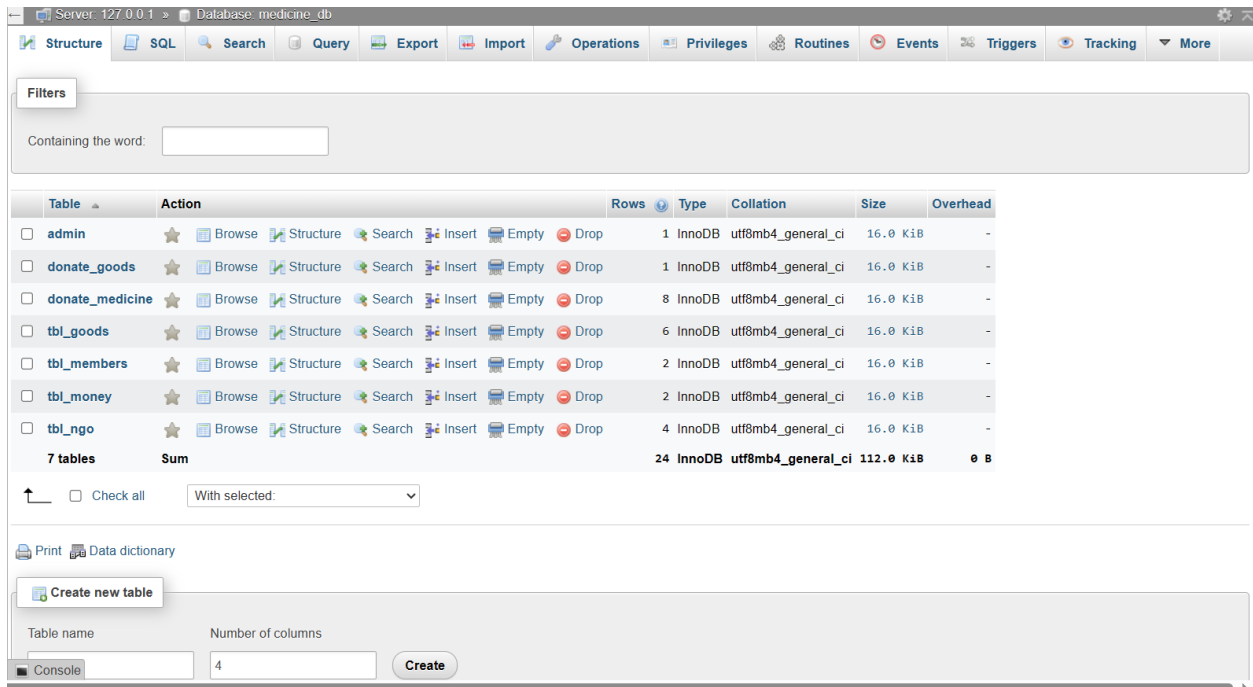


Figure 4.21 Manage Database

### 4.3 Interaction Design and User Experience (UX)

An Online Multifaceted Donation System's interface design as well as user experience (UX) are centered on giving users a simple, effortless experience. Interfaces that are intuitive are given top priority in the design so that consumers may easily and clearly navigate through procedures including making appointments, contribution filing, and registration. It guarantees responsive design, which enables the platform to adjust to different dimensions of screens and gadgets. The software incorporates user experience (UX) concepts, which prioritize convenience, clarity of design, and easy navigation to foster favorable interactions and commitment. The interface design and UX prioritize user demands in order to improve the entire experience, encouraging openness, confidence, and user happiness in the process of achieving the system's humane objectives.

### 4.4 Implementation Requirements

An Online Multifaceted Donation System's deployment criteria include the following crucial elements:

- **Programming Languages and Technologies:** HTML, CSS, JavaScript, and PHP are needed for front-end building and back-end scripting, respectively, in the system's construction. Tools and templates may also be used to speed up construction.
- **Database Management System:** To keep and supervise user data, contribution records, schedule details, and more, a suitable Database Management System (DBMS) is required. For through the internet running on the internet, PostgreSQL or MySQL are often used.
- **Server Infrastructure:** The system must be hosted on a dependable web server. As the platform expands, it must to be adaptable to handle rising traffic and data volumes.
- **Security mechanisms:** To safeguard user knowledge and guarantee transactional truthfulness, deployment must incorporate strong security mechanisms such data encrypting data secure identification of users, and access restriction.
- **Responsive Design:** To guarantee that the machine works flawlessly across a range of platforms, including PCs, tablets, and smartphones, responsive design strategies should be utilized.
- **User Interface Design:** To provide users with an experience that is both visually attractive and instinctual, the user experience should be in line with interaction design and UX concepts.
- **API Integration:** Real-time interaction and transfer of data across the front-end and back-end sections of the platform may be facilitated by the combination of APIs.
- **Quality Assurance and Testing:** Strict testing protocols must be implemented to find and fix any problems and guarantee the system functions properly and dependably.
- **Planning for Scalability:** The operation should be set up to support future expansion, allowing for the possibility of increasing resources and services in response to rising customer demand.
- **Documentation:** For system upkeep, solving problems, and future improvements, thorough documentation of how they were implemented is essential.
- **User Support and Training:** Documents for user instruction and systems for offering assistance to clients in the event of queries or problems should be included in the set up.



## **Chapter 5**

### **Implementation and Testing**

#### **5.1 Implementation of Database**

In order to effectively handle and retain crucial data, a well-organized database management administration or relational database management system was created for the Online Medicine Contribution and Assistance Program database. Databases for user histories, donor records, schedule information, medications, and reports are all included in the database. Every table is built with the properties and connections required to handle all of the features of the whole thing. While donor records retain data regarding medications, cash, and goods provided, user profiles preserve identifiable and communication details. Appointment information, which shows planned medication pickups, links NGOs and Admin. The type, amount, and deadlines for expiration of donated medications are listed in the medications table. Data is preserved in reports so that quarterly overviews of platform activity may be produced. In order to ensure that the entire system runs cleanly and reliably and to enable smooth connections among users, staff members, and NGOs, the design of the databases places a strong emphasis on data correctness and integrity.

#### **5.2 Implementation of Front-end Design**

An Online Multifaceted Donation System's front-end design execution prioritizes on a responsive, eye-catching, and user-friendly interface. It uses HTML, CSS, and JavaScript to create web pages that direct visitors through tasks including registering as a user, submitting a contribution, and setting up a scheduled time. Transparency, availability, and effective navigation are prioritized in the layout to improve the user experience. Users may use the system on desktops, laptops, and mobile phones thanks to its seamless adaptability to a range of devices and sizes of displays. Across several platforms, adaptable design principles are used to preserve uniform performance and appearance. In order to promote openness, confidence, and user happiness, the front-end design conforms to communication design and customer experience (UX) standards. This improves the general user experience while supporting the platform's altruistic objectives.

### 5.3 Testing Implementation

An Online Multifaceted Donation System and Assistance Platform's testing deployment is a vital phase that entails a thorough and systematic assessment of the structure as a whole to guarantee the system's accessibility, protection, and performance. Testing occurs at different levels: independent testing verifies the viability of individual sections; integration evaluation verifies the interactions between elements; testing of the system verifies the functioning and adherence of the whole structure with necessities; and user acknowledgment evaluation (UAT) verifies that the system is used by actual users and fulfills their requirements. Testing also includes safety testing to find and fix dangers, evaluation of usability to make sure the infrastructure in question is user-friendly, as well as performance analysis to evaluate system responsiveness under various loads. Thorough testing methods, such as the use of evaluation structures and instruments are utilized to detect and fix any problems or defects, guaranteeing that the system functions seamlessly, safely, and dependably. Ensuring that the solution satisfies its goals of responsibilities, honesty, and integrity certification while maintaining is a crucial step.

### 5.4 Test Results and Reports

We are checking our system all functionality one by one. By offering insightful information for continuous enhancement, the reports support the platform's dedication to customer pleasure and quality control. Here we show our checking output and checking time.

Table 5.1: A Test Case for the Application

Test case Type	Details	Expected Result	Actual Result	Status	Date
Admin log in	Log in As Admin	Log in	Logged in successfully	Pass	11-10-2023

NGO log in	Log in as NGO	Log in	Logged in successfully	Pass	11-10-2023
Member log in	Log in As Army Member	Log in	Logged in successfully	Pass	11-10-2023
Hospital Registration	Register as Hospital	Register	Registered Successfully	Pass	11-10-2023
Member Registration	Register as User	Register	Registered Successfully	Pass	11-10-2023
Accept Money Donation Request	Donation Request Accept	Accept	Accepted Successfully	Pass	11-10-2023
Accept Goods Donation Request	Goods Donation Request Accept	Accept	Accepted Successfully	Pass	11-10-2023
Accept Medicine Donation Request	Medicine Donation Request Accept	Accept	Accepted Successfully	Pass	11-10-2023
Reject Money Donation Request	Money Donation Request Reject	Reject	Rejected Successfully	Pass	11-10-2023
Reject Goods Donation Request	Goods Donation Request Reject	Reject	Rejected Successfully	Pass	11-10-2023

Reject Medicine Donation Request	Medicine Donation Request Reject	Reject	Rejected Successfully	Pass	11-10-2023
Donate Medicine	Medicine Donate	Donate	Donated Successfully	Pass	11-10-2023
Donate Money	Money Donate	Donate	Donated Successfully	Pass	11-10-2023
Donate Goods	Good Donate	Donate	Donated Successfully	Pass	11-10-2023

## Chapter 6

### Impact on Society, Environment and Sustainability

#### 6.1 Impact on Society

By meeting urgent emergency requirements, An Online Multifaceted Donation System in Bangladesh has an opportunity to have a significant positive social effect. It provides a clear and organized forum for people, non-governmental organizations, and administrations to collaborate in order to lessen discomfort and anguish in areas where there is restricted access to basic supplies like goods, food, and medication. By promoting responsibility, openness, and excellent control throughout the donation process, this method makes sure that only necessary as well as secure materials are given to people in need. The platform overcomes the gaps in social assistance and healthcare availability by combining technologies and human empathy, making the world a more empathetic and just place. It encourages generosity, gives people the confidence to participate actively in society, and gives hope to those who are struggling. The system can provide health care, encouragement, and consolation to many individuals in need, highlighting the transformational power of technological innovation and interpersonal goodwill. This means that there is a great deal of scope for beneficial transformation.

#### 6.2 Impact on Environment

An Online Multifaceted Donation System in Bangladesh has a net positive environmental effect. The method aids in cutting down on waste and inappropriate disposal of unneeded or outdated pharmaceuticals, which may have negative environmental effects, by offering a smooth and effective platform for the donation of necessary prescriptions, cash, and apparel. The digital format of this platform reduces the carbon impact that comes with conventional, written-in-paper donation procedures. Additionally, the system indirectly supports greater wellness and health by facilitating the effective allocation of resources to marginalized people. This may lessen the burden on healthcare providers and, in some situations, eliminate the need for harmful to the environment medical treatments. Because the framework places a strong focus on humanitarian relief and

appropriate expenditure of resources, it may be able to support an ecologically friendly and economically feasible approach to resolving healthcare inequities.

### **6.3 Ethical Aspects**

The effect and functioning of An Online Multifaceted Donation Program are fundamentally dependent on its ethical components. A set of legally binding guidelines, such as protecting user privacy, treating sensitive user data responsibly, and guaranteeing the security associated with financial operations, must be followed by the system in question. To prevent any possible theft, transparency, and responsibility are the first priority when allocating gifts. Additionally, it must follow all applicable laws and regulations, especially when it comes to medical contributions, to guarantee the suitability as well as security of given medications. This platform's ethical aspects also include encouraging inclusion as well as accessibility so that people from different groups and experiences may use its offerings. The ethical foundation of this framework emphasizes how crucial it is to make sure technology is used for the benefit of society and upholds beneficial ideals and principles throughout its entire life.

### **6.4 Sustainability Plan**

An Online Multifaceted Donation System's sustainable development plan is made to make sure that the website keeps running and expanding. It incorporates a complex strategy for achieving financial sustainability that could include many sources of income. Donor transaction fees, with a part going toward system upkeep, may assist in defraying operating expenses. Furthermore, endorsements and alliances with non-governmental groups, medical companies, or other businesses may provide vital financial assistance. The platform's future viability may also be aided by continuous grant submissions, fundraising events, and charitable contributions. The best possible use of the resources at hand depends on cost control, frequent cost-benefit evaluations, along effective resource distribution. The sustainability plan attempts to safeguard the website's long-term viability by implementing responsible fiscal management and expanding the sources of financing. This will ensure that the social network can continue to improve the lives of those who need assistance while adhering to its mission of integrity, openness, and assistance for humanity.

## **Chapter 7**

### **Conclusion and Future Scope**

#### **7.1 Discussion and Conclusion**

To sum up, An Online Multifaceted Donation System and Support Program is a creative and all-encompassing way to handle the many obstacles impoverished people have while trying to get access to necessary medications, financial aid, and goods. A strong dedication to accountability, openness, and humanitarian principles served as the project's inspiration from the outset. The approach's potential to have a significant and long-lasting influence is highlighted by the examination of many facets, from the original idea to the execution and long-term viability of the plan. The platform demonstrates the potential of technology to close the distance between individuals in need and those who are eager to assist by encouraging cooperation between donors, NGOs, and authorities. It serves as an example of how a web-based platform that is easy to use, safe, and scalable may support collaboration and contribution while upholding strict quality control criteria. The sustainability strategy sets up a framework for long-term achievement by emphasizing efficiency and financial diversity. The Online Medicine Donation and Support Network offers a hopeful picture of a more just and helpful future by embodying the spirit of empathy and civic engagement in a constantly linked society.

#### **7.2 Scope for Further Developments**

A solid basis for further improvements and advances is provided by An Online Multifaceted Donation and Support System. Improving the platform's influence by reaching a wider audience around the world is one way to expand it. Enhancing the amalgamation of data analysis and visualization technologies may provide discernment into the patterns of donations and enhance the distribution of resources. Partnerships between healthcare providers and pharmaceutical corporations may result in a longer-lasting and more comprehensive supply of medications. The system may also investigate mobile apps for greater accessibility and the integration of cutting-edge technology like blockchain for improved security and accountability. Furthermore, adding services like health and schooling materials might give consumers even more authority. The

organization has significant room for expansion and creative thinking, guaranteeing that it can continue to fulfill its philanthropic objective while adjusting to changing requirements and new technology.



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