



# North South University

Department of Electrical & Computer Engineering

## Project Proposal CSE299, Section- 9

Faculty: Muhammad Shafayat Oshman (MUO)

**Project Name:** Donor Management System.

### Group member:

Name	ID
Md. Nurnobi Islam	2021803042
Nahiyan Nazah Ridita	2012610642

## Problem Statement:

Non-profit organizations often struggle with maintaining effective donor relationships, efficiently managing donations, and coordinating fundraising campaigns. Manual processes and lack of a dedicated system can lead to data inconsistencies, communication challenges, and missed opportunities. Therefore, there is a pressing need for a comprehensive Donor Management System to streamline donor interactions, optimize fundraising efforts, and enhance volunteer coordination.

## Introduction:

The "Donor Management System" project aims to address the challenges faced by non-profit organizations by developing a user-friendly and efficient web application. This application will provide a centralized platform for managing donor information, tracking contributions, organizing fundraising campaigns, and coordinating volunteer activities. The system will facilitate seamless communication between organizations and donors, contributing to improved donor engagement and more successful fundraising campaigns.

## Key Features:

- **Donor Profiles:** Create and maintain detailed donor profiles with contact information, donation history, and communication preferences.
- **Donation Tracking:** Record various types of donations, including one-time and recurring, with automated acknowledgments and receipts.
- **Campaign Management:** Create, monitor, and manage fundraising campaigns, allowing donors to contribute directly and track progress.
- **Communication Tools:** Send personalized emails and notifications to donors, keeping them engaged and informed.
- **Reporting and Analytics:** Generate reports and visualizations to assess fundraising performance, donor engagement, and campaign success.
- **Event Coordination:** Manage fundraising events, enable registration, and assign volunteer tasks for effective coordination.

## Technology Stack:

- **Frontend:** HTML5, CSS3, JavaScript, Bootstrap (optional for responsive design)
- **Backend:** Django (Python web framework)
- **Database:** PostgreSQL (or other relational database management system)
- **Version Control:** Git
- **Deployment:** Docker, Heroku (or other suitable hosting platform)

### **Cost Analysis:**

- Personnel: 200,000 BDT (assuming a 4-month project timeline)
- Infrastructure and Hosting: 60,000 BDT (assuming a 4-month project timeline)
- Software and Tools: 10,000 BDT
- Documentation and Training: 10,000 BDT
- Contingency: 10,000 BDT

**Grand Total: 290,000 BDT**

### **Functional Requirements:**

1. User Authentication and Authorization: Secure registration, login, and role-based access control for administrators and donors.
2. Donor Profiles: Create, view, update, and manage donor profiles with ease.
3. Donation Recording: Record different types of donations, capturing details such as amount, date, and payment method.
4. Campaign Management: Create, edit, deactivate campaigns, and display real-time progress tracking.
5. Communication System: Enable administrators to send targeted emails and notifications to donors.
6. Reporting and Visualization: Generate customizable reports and graphs for easy data interpretation.

### **Non-Functional Requirements:**

1. User Experience: Design an intuitive and responsive UI/UX for administrators and donors.
2. Security and Privacy: Implement strong data security measures, user authentication, and encryption.
3. Performance: Optimize application speed and responsiveness for smooth user interactions.
4. Reliability: Ensure regular backups, error handling, and minimal downtime.
5. Accessibility: Develop a frontend that meets accessibility standards for users with disabilities.
6. Documentation: Provide comprehensive installation, usage, and maintenance documentation.

**Conclusion:**

The "Donor Management System" project will empower non-profit organizations to efficiently manage donor relationships, fundraising campaigns, and volunteer coordination. By combining the frontend technologies of HTML, CSS, and JavaScript with the robustness of Django on the backend, we will deliver a functional, secure, and user-friendly application that meets the needs of both administrators and donors.