COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

BACHELOR OF INFORMATION TECHNOLOGY (HONS.)

ENTERPRISE PROGRAMMING CSC584

DONATION & CHARITY MANAGEMENT SYSTEM

MYDONATERS (GROUP 6)

NBCS2404B

PREPARED BY

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26 JULY 2025

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1.0 INTRODUCTION

Mydonnaters is a public donation system designed to create a convenient, transparent, and impactful way for individuals to contribute to those in need. This platform aims to bridge the gap between donors and charitable initiatives by offering a flexible and user-friendly experience that encourages both targeted and general giving.
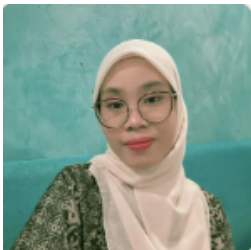
With Mydonnaters, donors are empowered to make a difference in a manner that suits their personal preferences and capacity. The system allows users to select specific donation items such as food, clean drinking water, clothing, hygiene products, and other essential goods for ensuring their contributions directly support tangible needs within the community. Each item is thoughtfully categorized to help donors align their giving with causes they care most about, whether it's aiding disaster relief, supporting underprivileged families, or contributing to long term community development.

In addition to item based donations, Mydonnaters also supports monetary contributions. Donors who prefer a more general form of support can simply enter their preferred donation amount, which will be allocated to the most urgent causes or pooled into ongoing charitable efforts. This dual-option approach, item selection and amount-based giving can enhances accessibility and inclusiveness, allowing people from various financial backgrounds to participate in meaningful giving.

The platform is designed to be intuitive and efficient, with features such as a calendar-based donation date selector, real-time confirmation, and secure payment processing. These elements ensure that the entire donation journey from selection to payment is seamless and trustworthy.

Ultimately, Mydonnaters aims to foster a culture of compassion and social responsibility by making the act of giving easy, personalized, and impactful. Whether through item donations or direct financial support, every contribution made through the platform helps build stronger, more resilient communities.

2.0 TEAM MEMBER AND ROLE

	NUR HASNI BINTI MOHAMAD HIJAZI UI/UX Developer
	LAILATUL AIDA BINTI NAZRI Project Designer
	NUR SAIDATUL AQILAH BINTI SAMSUDDIN System Analyst
	NURUL SYAHIRAH BINTI SA'DUN Software Tester

3.0 OBJECTIVE

The Mydonnaters system is developed with the following key objectives:

1. **To support administrative roles and enhance system security**

   By incorporating user role management and secure access controls, the system ensures that administrative functions are efficiently managed while protecting sensitive information from unauthorized access.

2. **To manage donor and beneficiary records efficiently**

   The platform aims to streamline the storage, retrieval, and updating of donor and beneficiary data, promoting organized and reliable recordkeeping for improved decision-making and communication.

3. **To ensure transparency and accountability in the donation process**

   Mydonnaters emphasizes clear and traceable donation tracking to build trust among users. Every donation is logged and reported to provide stakeholders with full visibility into how contributions are utilized.

4. **To digitize and automate the donation process**

   By leveraging digital tools and automation, the system reduces manual workload, minimizes errors, and enhances user experience making the donation process faster, more accurate, and user-friendly.

4.0 PROBLEM STATEMENT

In recent years, the role of charitable organizations has grown significantly, particularly in response to humanitarian crises, poverty alleviation, and community development. These organizations rely heavily on public and private donations to fund their initiatives. However, many charities, especially small to medium-sized non-profits, continue to manage their operations using manual processes, spreadsheets, or fragmented digital tools. These traditional methods are inefficient and prone to human error, leading to several operational and reputational challenges.

One of the most pressing issues is the **lack of transparency** and accountability in how donations are received, recorded, and distributed. Donors today expect to see the impact of their contributions in a timely and clear manner. When organizations are unable to provide such visibility due to disorganized or outdated systems, donor trust diminishes, resulting in decreased engagement and fewer repeat donations.
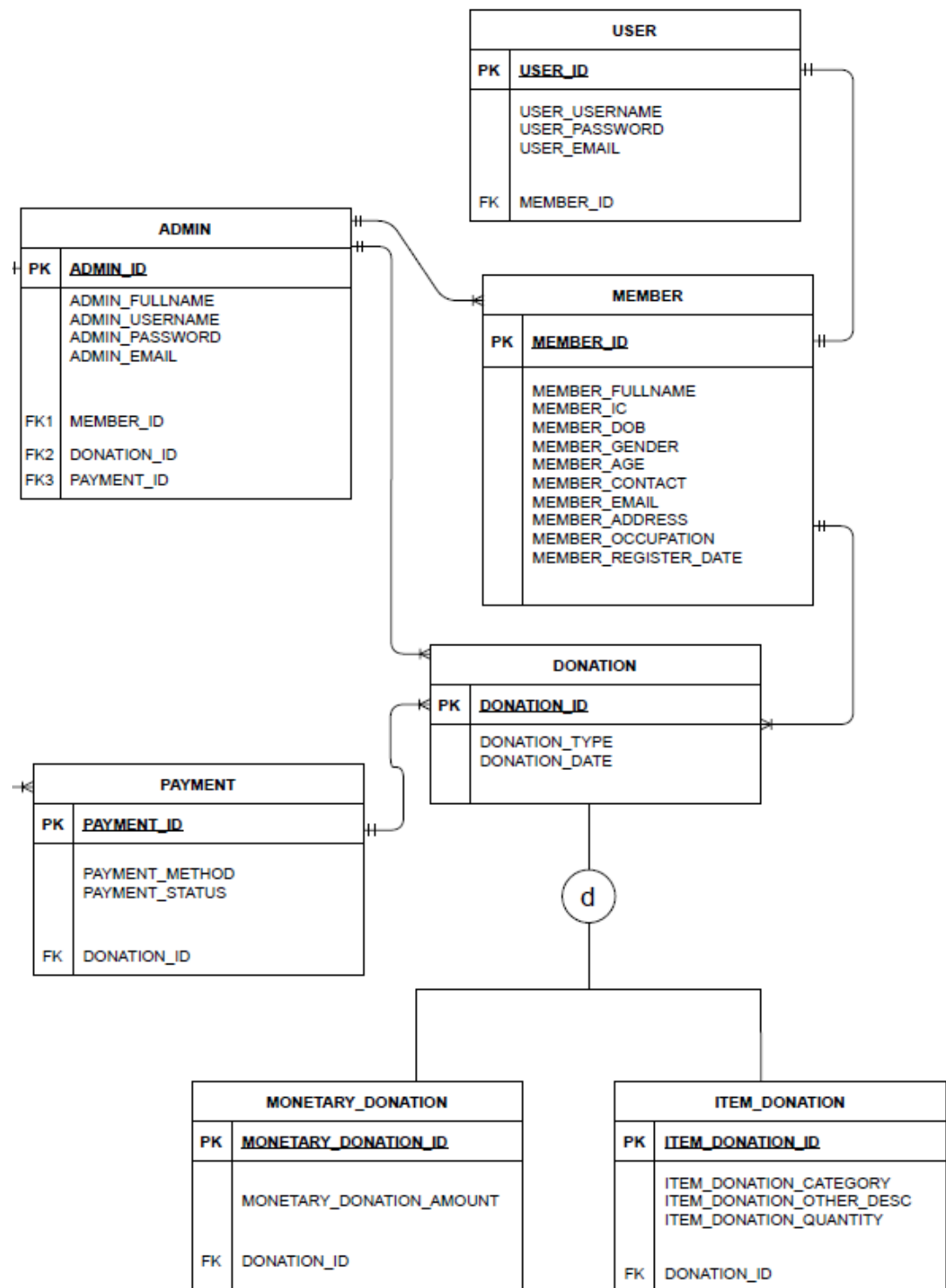
In addition, without an integrated system, organizations face difficulties in:

- **Tracking and managing donor histories**

- **Issuing official receipts and acknowledgements automatically**

- **Maintaining accurate records of beneficiaries and aid distribution**

- **Planning and promoting fundraising campaigns**

- **Generating real-time reports and data-driven insights for internal decision-making or audits**

These challenges not only create internal inefficiencies but also limit the organization's ability to grow, scale operations, and respond quickly to urgent community needs.

Such a system would not only improve the efficiency of day-to-day activities but also help build long-term trust and credibility with donors, volunteers, and beneficiaries—ensuring that charitable efforts are maximized for greater societal impact.

4.0 ERD

USER

PK	USER_ID
	USER_USERNAME
	USER_PASSWORD
	USER_EMAIL
FK	MEMBER_ID

ADMIN

PK	ADMIN_ID
	ADMIN_FULLNAME
	ADMIN_USERNAME
	ADMIN_PASSWORD
	ADMIN_EMAIL
FK1	MEMBER_ID
FK2	DONATION_ID
FK3	PAYMENT_ID

MEMBER

PK	MEMBER_ID
	MEMBER_FULLNAME
	MEMBER_IC
	MEMBER_DOB
	MEMBER_GENDER
	MEMBER_AGE
	MEMBER_CONTACT
	MEMBER_EMAIL
	MEMBER_ADDRESS
	MEMBER_OCCUPATION
	MEMBER_REGISTER_DATE

DONATION

PK	DONATION_ID
	DONATION_TYPE
	DONATION_DATE

PAYMENT

PK	PAYMENT_ID
	PAYMENT_METHOD
	PAYMENT_STATUS
FK	DONATION_ID

d

MONETARY_DONATION

PK	MONETARY_DONATION_ID
	MONETARY_DONATION_AMOUNT
FK	DONATION_ID

ITEM_DONATION

PK	ITEM_DONATION_ID
	ITEM_DONATION_CATEGORY
	ITEM_DONATION_OTHER_DESC
	ITEM_DONATION_QUANTITY
FK	DONATION_ID

5.0 USER MANUAL

Registration:

1. On the login page, click the "Don't have an account? Register here" link.
2. Fill in the required details, such as your name, email, and a secure password.
3. Follow the prompts to complete your registration. You might need to verify your email address.

Logging In:

1. Navigate to the login page.
2. Enter your registered Username in the first field.
3. Enter your Password in the second field.
4. Click the Login button to access your personalized dashboard.
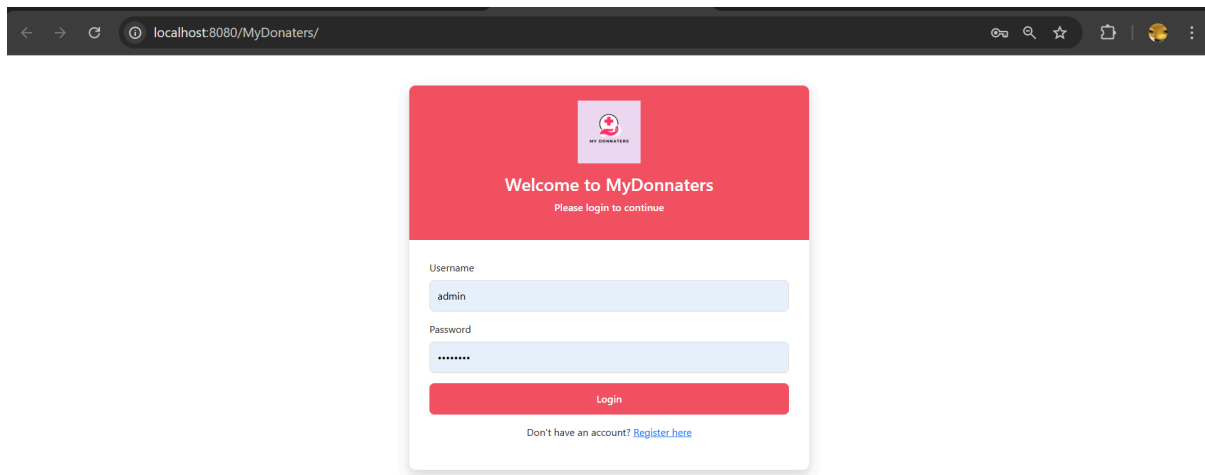
5.1 MEMBER INTERFACE

5.1.1 Member registration

The user registration interface is the primary entry point for new members. It consists of several data fields designed to collect personal and contact information required for account creation. To create a new member account, the user must complete the following steps:

1. **Navigate to the Registration Form:** Access the "Create Your Account" page. Users who have not yet registered can access this form via the "Register here" link on the main login page.
2. **Data Entry:** The user is required to input the following information into the corresponding fields:

a. Full Name: The user's complete legal name.

b. Username: A unique identifier selected by the user for logging into the system.

c. Password: A confidential string of characters for account security. The system requires this to be entered twice for confirmation.

d. Confirm Password: A re-entry of the chosen password to ensure accuracy.

e. IC Number: The user's official Identification Card number for verification purposes.

f. Date of Birth: The user's date of birth, to be entered in dd/mm/yyyy format.

g. Gender: The user's gender, selected from a pre-defined list of options.

h. Age: The user's current age in years.

i. Contact Number: A valid telephone number for communication.

j. Email: A valid email address for account notifications and system correspondence.

k. Address: The user's full residential address.

Submission of Form: After all fields have been populated with the correct information, the user must click the Register button to submit the form and create the account.

Post-Registration: Upon successful submission, the system will process the information and create a new member profile. The user may then be redirected to the login page to access their newly created account.

For users who have previously registered, a hyperlink labeled "Login here" is provided at the bottom of the form. Clicking this link will redirect the user to the account login page.

5.1.2 Make a Donation

1. Accessing the Donation Form

After logging into your account, click on "Donation" in the menu on the left. This will take you to the "Make a Donation" page where you can submit your contribution.

2. How to Fill Out the Donation Form

Follow these simple steps to record your donation:

Step 1: Choose the Donation Date

- In the Donation Date field, select the date you are making the donation. It may be filled in automatically.

Step 2: Select the Items You Wish to Donate

- In the Select Items to Donate section, click the checkbox next to each item you want to give such as food, water, clothes and others.
- For each item you select, enter the amount you are donating in the "Qty" (Quantity) box beside it.

Step 3: Add Other Items (If Applicable)

- If you wish to donate something that isn't on the list, check the box for "Other Items."
- In the text field below that says "Please specify other items," type in what the item is and its quantity.

Step 4: Choose to Add a Monetary Donation

- At the bottom, you will see the question "Do you want to add payment?"
- Select Yes if you also want to contribute money. You will likely be asked for the amount on the next screen.
- Select No if you are only donating items.

Step 5: Complete Your Donation

- Once you have filled everything out, click the "Submit" button. This will record your donation and guide you to any final steps, such as making a payment if you selected "Yes."

MY DONNATERS

Donation

Logout

Make a Donation

Donation Date

dd/mm/yyyy

Select Items to Donate

☐Food   Qty

☐Water   Qty

☐Medical Kits   Qty

☐Clothes   Qty

☐Shoes   Qty

☐Bedsheet   Qty

☐Other Items   Qty

Please specify other items

Do you want to add payment?

○ Yes

● No

Submit

5.1.3 Completing Donation Payment

1. Accessing the Payment Page

You will be directed to this page after you have selected items to donate and chosen the "Yes" option for "Do you want to add payment?".

2. How to Complete Your Payment

Follow these three simple steps to finalize your donation.

Step 1: Enter Your Donation Amount

- In the first box, labeled "Enter Donation Amount (RM)", type in the amount of money you wish to donate.

Step 2: Review the Donation Summary

- Take a moment to check the "Donation Summary" box.
- This confirms your name (Donor) and any Items you are also donating.
- The "Total Amount" will update to show the monetary value you entered in Step 1.

Step 3: Select Your Payment Method

- Choose how you would like to pay from the "Select Payment Method" list. Your options are:
- Credit/Debit Card: To pay with Visa, Mastercard, or other cards.
- PayPal: To pay using your PayPal account.
- Bank Transfer: To make a direct bank transfer.
- Click on your preferred payment method to select it.
- After selecting a method, you will be guided to a secure payment screen to enter your details and confirm the transaction.

5.2 ADMIN INTERFACE

5.2.1 Dashboard

1. Overall Layout

The screen is divided into two main sections:

1. Side Navigation Panel (Left): A vertical, colored menu bar on the far left that stays in place.
2. Main Content Area (Right): The large area on the right where all the information and charts are displayed.

2. Side Navigation Panel

This is your primary tool for moving between different sections of the admin system.

- Logo: At the top, you will see the MyDonnaters logo.
- Navigation Links: Below the logo is a list of clickable text links.
- Clicking the Dashboard will always bring you back to this main view.
- Clicking Members will take you to the user management page.
- Clicking Donation will take you to the page for managing donations.
- Clicking Logout will sign you out of the system.

3. Main Content Area

This area uses a card-based design to organize information clearly.

a. Header Bar: At the very top of the content area, there is a bar that contains a Search field. You can type here to find specific information.
b. Top Row of Cards: Directly below the header, there are four small, rectangular cards arranged in a row. These are designed to show you quick, important summaries.
c. Bottom Row of Cards: Below the top row, there are two larger rectangular cards.

- The Card on the Left (List View): This card is designed to show a list of recent activities. Each item in the list has a View button next to it. Clicking this button will take you to a more detailed page about that specific item.
- The Card on the Right (Chart View): This card displays a bar chart. The chart uses different colored bars to visually compare different types of data, making it easy to see trends at a glance.
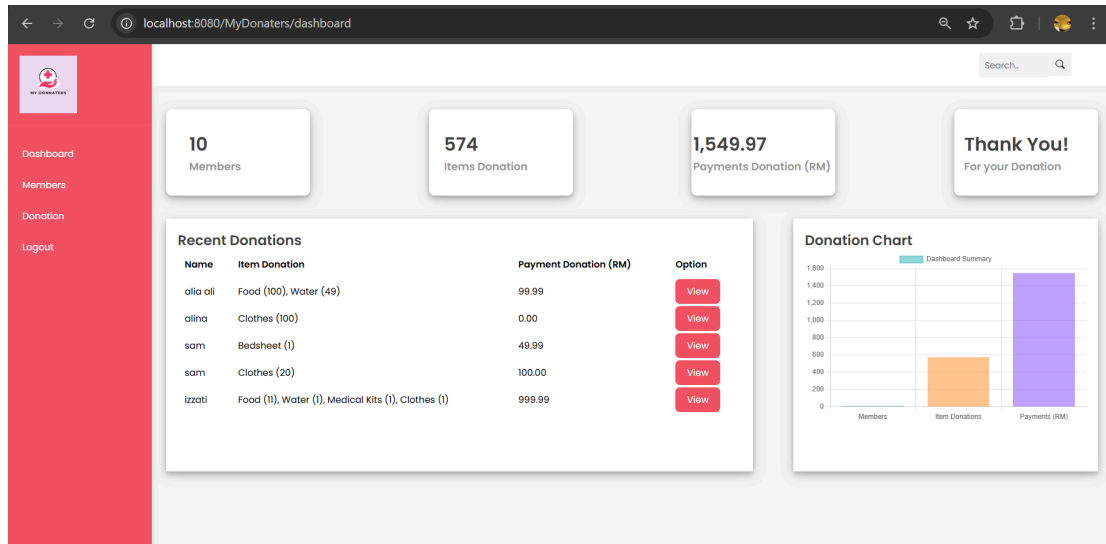
5.2.2 Member Management

1. Viewing the Member List

- First, click on "Members" in the main menu on the left. This will take you to the "Member Registration Details" page.
- This page shows a table of all registered members with basic information like their name, phone, and email.
- To find a member: Use the search box at the top right.
- To manage a member: Find the member in the list and use the buttons in the "Action" column.

2. How to Manage a Member

There are three actions you can perform on each member's account:

A. View Member Details

Action: Click the "View" button.

Result: You will see a detailed, read-only profile of the member, including their personal info, address, and membership details.

B. Edit Member Details

Action: Click the "Edit" button.

Result: You will be taken to the "Edit Member Details" page. Here, you can change the member's information in the text boxes and dropdown menus.

To finish:

- Click "Save Changes" to update the member's profile.
- Click "Cancel" to go back without saving.

C. Delete a Member

Action: Click the "Delete" button.

Result: This will permanently remove the member's account and all their data from the system. A confirmation message may appear before deletion.

Screenshot 1 — localhost:8080/MyDonaters/member_detail

Dashboard
Members
Donation
Logout

Member Registration Details

Search member...

#	Full Name	Gender	Phone	Email	Date of birth	Action
1	Ali Bin Abu Ahmadi	Male	0123456789	ali@example.com	1990-01-01	View Edit Delete
2	Siti Nurhaliza	Female	0136543210	siti@example.com	1988-02-02	View Edit Delete
3	Nur Aina	Female	0178899001	aina@example.com	1992-04-04	View Edit Delete
4	Tan Wei Jie	Male	0169988776	weijie@example.com	1991-05-05	View Edit Delete
5	ali ahmad	Male	0123456789	ali@getnada.com	2005-08-19	View Edit Delete
6	izzati	Female	0123345678	izzati@getnada.com	2000-02-20	View Edit Delete
7	sam	Male	0123456789	sam@gmail.com	1998-01-01	View Edit Delete
8	alina	Female	0123456789	alina@getnada.com	2000-09-09	View Edit Delete
9	alia ali	Female	0123456789	alia@getnada.com	1999-09-09	View Edit Delete

Screenshot 2 — localhost:8080/MyDonaters/MemberDetailInfoServlet?id=6

Dashboard
Members
Donation
Logout

Member Details

Personal Information

Member ID
6

Full Name
Ali Bin Abu Ahmadi

IC Number
900101-14-5678

Date of Birth
1990-01-01

Gender
Male

Age
34

Contact Number
0123456789

Email
ali@example.com

Address Information

Full Address
123 Jalan Merdeka, Perlis

Membership Information

Screenshot 3 — localhost:8080/MyDonaters/MemberDetailInfoServlet?id=6&mode=edit

Dashboard
Members
Donation
Logout

Edit Member Details

Personal Information

Full Name
Ali Bin Abu Ahmadi

IC Number
900101-14-5678

Date of Birth
01/01/1990

Gender
Male

Age
34

Contact Number
0123456789

Email
ali@example.com

Address Information

Full Address
123 Jalan Merdeka, Perlis

Save Changes   Cancel

5.2.3 Donation Management

1. How to View All Donations

- To begin, click on "Donation" from the main menu on the left. This opens the "Donation Details" page.
- This page displays a complete list of all donations made. You can see the donor's name, donation date, items given, quantity, and the monetary amount for each entry.
- To find a donation: Use the "Search donation..." box at the top right.
- To manage a donation: Use the "Action" buttons (Edit, Delete) next to each entry.

2. How to Add a New Donation

This function is for manually recording a new donation into the system.

- Action: Click the "Add Donation +" button.
- Result: A form will appear on the screen.

Steps:

- Select the Donor Name from the dropdown list.
- Choose the Donation Date.
- Under "Items to Donate," check the box next to each item being donated and enter the correct Quantity for each one.
- Click the final button ("Add" or "Save") to record the new donation.

3. How to Edit a Donation

Use this to correct or update an existing donation record.

- Action: Click the "Edit" button next to the donation you want to change.
- Result: You will be taken to the "Edit Donation" page.

Steps:

- The donor's name and date are shown for reference.
- In the large text box, you can change the details of the "Items Donated."
- Click "Update" to save your changes.
- Click "Cancel" to return without saving.

4. How to Delete a Donation

- Action: Click the "Delete" button next to the donation you want to remove.
- Result: This will permanently remove the donation record from the system. A confirmation pop-up may appear before the final deletion.

6.0   CONCLUSION

In conclusion, the Donation & Charity Management System addresses a critical need for efficiency, transparency, and accountability within charitable and non-profit organizations. By replacing manual processes with a centralized, automated platform, the system streamlines donation tracking, improves data accuracy, enhances donor and beneficiary management, and facilitates clear communication with stakeholders.

The system not only ensures secure and traceable transactions but also empowers organizations with real-time reporting and analytics capabilities. This contributes to better decision-making, improved donor trust, and stronger engagement with the community. Furthermore, features such as campaign management, receipt automation, and role-based access ensure that the system is practical, scalable, and adaptable to different organizational needs.

As digital transformation becomes increasingly essential across all sectors, implementing a Donation & Charity Management System represents a significant step toward modernizing charitable operations. It enables organizations to focus more on their core mission—delivering aid and support to those in need—while ensuring that every donation is tracked, reported, and maximized for positive social impact.