

CHARITY DONATION SYSTEM

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INTRODUCTION

PROJECT OVERVIEW:

A charity donation system is a way to collect donations for a charitable cause, such as a non-profit organization, and distribute them to help the cause achieve its goals.

PROBLEM STATEMENT:

The traditional system around the world is facing various problems such as lack of transparency, mistrust between donors and charities. There is a need to allow donors to track their contributions and contribute freely to community support.

OBJECTIVE :

To establish trust between the various categories of organizations that help the poor as donors and members of the charity.

System requirements:

HARDWARE REQUIREMENTS:

Hard Disk : 500 GB.

Monitor : 15" LED.

Input Devices : Keyboard, Mouse.

Ram : 2 GB.

SOFTWARE REQUIREMENTS:

Operating system : Windows 10.

Coding Language : JAVA

Tool : Netbeans 8.2

Database : MYSQL

Design and Development:

PROGRAM LOGIC:

The charity Donation System is designed with a menu-driven interface that allows users to perform various operations such as adding charitable donations, including donor information, donation tracking, and generating donation receipts. The system uses structured data types to store donor information and linked lists to manage appointments.

PSEUDOCODE:

``string name

Integer donationAmount

Struct Donor

Name = ""

donationAmount = 0

function generateReceipt(Donor donor)

print "Receipt for Donation"

print "Name: " + donor.name

print "Donation Amount: \$" + donor.donationAmount

print ""

integer n

print "Enter the number of donors: "

input n

Donor donors[n]

For i = 0 to n - 1

Print "Enter Donor " + (i + 1) + " Name: "

Input donors[i].name

Print "Enter Donation Amount: \$"

Input donors[i].donationAmount

Print "Donation Receipts:"

For i = 0 to n - 1

generateReceipt(donors[i])

TESTING AND RESULTS:

1. Add Donation
2. Generate Receipts
3. Exit

Enter your choice: 1

Enter donor name: dona

Enter donation amount: 1000

Donation added successfully!

--- Charitable Donations Management System ---

1. Add Donation
2. Generate Receipts
3. Exit

Enter your choice: 2

--- Donation Receipts ---

Donor: dona, Donation Amount: \$1000

--- Charitable Donations Management System ---

1. Add Donation
2. Generate Receipts
3. Exit

Enter your choice: 3

Exiting the program. Thank you!

Discussion of result:

- The program successfully allows users to input the number of donors and their respective information.
- The program correctly generates and displays donation receipts for each donor.

- The program's output is well-organized and easy to read, making it suitable for printing or further processing.
- The program demonstrates basic programming concepts such as structs, functions, loops, and input-output operations.
- The program could be improved by adding more features, such as data validation, error handling, and file input/output operations.

Conclusion:

The implementation of an Online Donation Management System offers an efficient and user-friendly solution for streamlining the process of charitable contributions.