

ShareNet

BCA / BCA (H) / IMCA Semester VI PROJECT REPORT

BACHELOR OF COMPUTER APPLICATIONS

School of Computing

SUBMITTED TO



Sponsored by ASIA Charitable Trust

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1. Initial Project Proposal & Planning

The proposed project, **ShareNet**, is a web-based donation system designed to help people donate usable items such as clothes, books, and household goods to those in need. Users are required to register and log in before they can donate, ensuring that only authenticated users can access the donation functionality.

The donation process is simple and user-friendly, allowing donors to provide item details such as category, quantity, condition, and pickup information. Login sessions are used to ensure that only logged-in users can submit donations, which helps maintain the security and proper functioning of the system.

The project also includes an admin module responsible for managing donation activities. After reviewing donation details, the admin assigns pickup tasks to volunteers through phone calls, who collect the donated items and deliver them to the needy. Overall, ShareNet promotes social responsibility and demonstrates how technology can be effectively used for community welfare.

The planning for the development of the system is as below :

1. Requirement Analysis
2. System Design
3. Database Design
4. Website Development
5. Testing and Validation
6. Documentation

Each phase is executed sequentially to ensure smooth development and timely completion of the project.

2. Project Title

After discussing various project ideas related to social welfare and community support, the finalized project title is “**ShareNet**”.

The title reflects the core objective of the project, which is to create a platform for sharing resources and supporting community donations. The name “**ShareNet**” represents a network where people can contribute usable items and help those in need through a structured and technology-driven approach

3. The Problem Statement

In many communities, a significant amount of usable items such as clothes, books, and household essentials are discarded or left unused, while at the same time, many individuals and families lack access to these basic necessities. The absence of a structured and reliable system to connect donors with people in need leads to resource wastage, inefficient distribution, and limited community participation in donation activities.

Traditional donation methods often rely on manual coordination, word-of-mouth communication, or informal channels, which are time-consuming and lack transparency. Donors are unsure whether their contributions reach the intended beneficiaries, and organizations face difficulties in tracking donations, managing pickup schedules, and coordinating volunteers effectively. Additionally, there is no proper mechanism to verify donors, maintain donation records, or ensure secure access to the system.

Therefore, there is a need for a centralized, secure, and user-friendly digital platform that allows registered users to donate items, enables administrators to manage donation activities, and assigns volunteers for item collection and distribution. Our website aims to address these challenges by providing an organized solution that improves donation management, reduces resource wastage, and promotes social responsibility through technology.

4. System Analysis

System analysis was conducted to understand the requirements of the donation process and identify the problems faced in existing donation methods.

4.1 The existing system and its limitations :

- The donation process relies heavily on manual work and lacks automation.
- There is no proper centralized system to store and manage donation information.
- Verifying donors and donated items is difficult and time-consuming.
- Coordination between donors and volunteers is not well organized.
- Tracking donated items and their delivery status is challenging.
- The overall process is slow and can easily cause mistakes.

4.2 The proposed system with functionality, modules and sub-modules:

- Web-based donation platform
- Secure user login system
- Registered users can donate items
- Donation details stored in database
- Admin verifies donation requests
- Volunteers assigned for pickup
- Session-based access control
- Improved coordination and transparency

Modules and Sub-Modules :

1. Admin Module

- Admin login
- View donation requests
- Assign pickup tasks to volunteers

2. Donor Module

- User registration
- User login
- Submit donation details

3. Volunteer Module

- Receive tasks
- Collect donated items
- Distribute items to needy people

5. Technical Specifications

- **Programming Language:** C#
- **Framework:** ASP.NET Web Forms
- **Development Tool:** Microsoft Visual Studio 2012
- **Database:** Microsoft SQL Server
- **Front-End Technologies:** HTML, CSS
- **Server-Side Validation:** ASP.NET Validators
- **Authentication Method:** Session-based authentication
- **Web Server:** IIS (Internet Information Services)
- **Operating System:** Windows