



**DELHI PUBLIC SCHOOL
RUBY PARK, KOLKATA**

COMPUTER SCIENCE PROJECT SYNOPSIS

‘EmpowerED’

A Donor and Volunteer Management System
for Underprivileged Schools

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Project Title

EmpowerED: Donor and Volunteer Management System for Underprivileged Schools.

Objectives of the Project

The present work proposes a project named 'EmpowerED' which aims at creating a digital platform that connects donors and volunteers with underprivileged schools thus creating a supportive and sustainable ecosystem that empowers underprivileged schools to provide better education while giving donors and volunteers the opportunity to make a meaningful impact on the lives of underserved students.

The primary objectives of the project are:

- Empower underprivileged schools by maintaining a comprehensive list of donors and volunteers by developing software which is user friendly, simple, fast, and cost effective.
- To allow nonprofit organizations to manage their donors and volunteers efficiently.
- To include features for adding, updating, and deleting donor and volunteer records.
- To retrieve these details when required, and manipulate them meaningfully.
- Facilitate meaningful volunteer engagement.

Inputs and Outputs of the Project

The inputs of the project would be as follows:

- Adding of new donor details such as
 1. Name
 2. Phone number
 3. E-mail ID
 4. Address
 5. Donation amount
- Editing donor details
- Deleting donor details

- Adding of new volunteer details such as
 1. Name
 2. Date of Birth
 3. Phone number
 4. E-mail ID
 5. Address
 6. Hours/Week of engagement as volunteer
- Editing volunteer details
- Deleting volunteer details

The outputs of the project would be as follows:

- Display donor details such as
 1. Name
 2. Phone number
 3. E-mail ID
 4. Address
 5. Donation amount
- Display volunteer details such as
 1. Name
 2. Date of Birth
 3. Phone number
 4. E-mail ID
 5. Address
 6. Hours/Week of engagement as volunteer
- Display report on total donation

Project Features

The features of the project are as follows:

1. Donor Management:
 - Allow administrators to add, edit, and delete donor information (name, contact details, donation history).
 - View a list of all donors.
 - Search for donors by name or other criteria.
 - Generate reports on donations received.

2. Volunteer Management:
 - Allow administrators to add, edit, and delete volunteer information (name, contact details, volunteer history).
 - View a list of all volunteers.
 - Search for volunteers by name or other criteria.
 - Generate reports on volunteer activities.

System Requirements

1. Hardware requirements:
 - Pentium IV processor or higher
 - 128 MB RAM or higher
 - 40 GB hard disk or higher
2. Software requirements:
 - Windows 10 Operating System
 - Python Interpreter
 - Pycharm IDE
 - MySQL workbench

Future Scope and Limitations

The proposed project is just a very basic database to store and display donor and volunteer information. There are several limitations in this project:

1. The interface is not graphical.
2. The reports generated have limited information.
3. There is no means of user authentication and no provision of data security.
4. All data is stored and can be accessed locally.
5. There is no provision of optimizing volunteer engagement based on hours/ location.

The scope of this project is immense and can be extended in several ways:

1. A user-friendly GUI can be designed for easy access.
2. Email notifications can be sent to donors automatically when they make a donation.
3. Calendar integration can be done volunteers to sign up for specific volunteer opportunities on a calendar.
4. Donation tracking can be done over time and visualizations can be created.
5. Volunteer scheduling can be done helps nonprofits manage volunteer shifts.
6. donation statistics (e.g., total donations, donations by purpose) reports can be generated
7. Volunteer activities (e.g., hours volunteered, upcoming events) report can be created.
8. The application can be deployed on a server or cloud platform so that it can be accessed by school staff, donors, and volunteers.
9. Security measures may be implemented.
10. A user documentation and administrator guide for using and maintaining the system may be created.

Conclusion

The Donor and Volunteer Management System for Underprivileged Schools is a project that addresses a critical need in underprivileged communities. Connecting donors and volunteers with schools in need contributes to improving education and well-being of underprivileged students while fostering a sense of community involvement and social responsibility.

Bibliography

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