
Title Page

Project Title: Donation Website for Supporting Organizations

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Course: Software Engineering Lab

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1. Abstract

This project proposes the development of an innovative donation website designed to connect donors with organizations working on various impactful causes such as health, education, climate disaster relief, and more. The platform will provide users with a secure registration process, an intuitive interface to explore donation categories, detailed organization profiles, and a range of payment options, including Bikash, Nagad, and bank transfers. Additional features like donation tracking, automated notifications, and feedback surveys will help build trust and encourage engagement from both donors and organizations. This website aims to create a transparent, secure, and convenient ecosystem for donations, empowering organizations to further their missions while ensuring donor satisfaction.

2. Introduction

Background:

Donations are crucial for supporting organizations dedicated to social and humanitarian causes. However, challenges such as lack of transparency, limited accessibility, and trust issues often discourage potential donors from contributing.

Relevance:

A secure, transparent, and user-friendly platform can significantly enhance the relationship between donors and organizations, ensuring convenient, reliable, and trusted financial contributions.

Target Audience:

- **Donors:** Individuals or groups passionate about supporting social causes.

- **Organizations:** Nonprofits, NGOs, and other social enterprises seeking a platform to raise funds and showcase their work.
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3. Problem Statement

What is the problem?

Donors often face difficulty finding trustworthy organizations and secure platforms for making contributions, leading to missed opportunities for social impact.

Why does it matter?

Many organizations fail to secure adequate funding due to the absence of reliable and user-friendly donation platforms, limiting their potential to create meaningful social change.

Who is affected?

- **Organizations:** NGOs and other groups that rely on public donations.
 - **Donors:** Individuals seeking a safe, transparent, and efficient way to support their causes.
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4. Objectives and Scope

Objectives:

- Develop a secure platform for user registration and authentication.
- Categorize organizations based on causes such as health, education, climate disaster, medical aid, memorials, food, environment, and more.
- Build detailed organization profiles featuring certifications, mission statements, and donor reviews to establish trust.
- Integrate secure payment options (Bikash, Nagad, bank accounts) for seamless donations.
- Enable donation tracking and history management for users.
- Implement notification systems (email and SMS) for updates on user and donation activities.
- Conduct surveys to gather user feedback on platform performance and effectiveness.

Scope:

- **Included:** User registration, donation categories, organization profiles, payment integrations, notification system, donation tracking, and feedback surveys.
 - **Excluded:** Direct management of organization funds and advanced financial auditing.
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5. Methodology/Approach

Technology Stack:

- **Frontend:** HTML, CSS, JavaScript (with optional frameworks like Bootstrap or Tailwind CSS).
 - **Backend:** JavaScript (using node js).
 - **Database:** MySQL.
 - **Payment Integration:** APIs for Bikash, Nagad, and bank transfers.
 - **Notifications:** SMTP for emails and Twilio for SMS updates.
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6. Timeline

Phase	Task	Duration
Design	UI design and architecture planning	Week 1
Learning phase 1	Html CSS	Week 2
Learning phase 2	Javascript	Week 3-4
Learning phase 3	Node.js, React.js,MySQL	Week 5-9
Implementation and Testing	Construction	Week 10-13

7. Resources

- Development laptop and reliable internet connection.
 - Access to APIs for Bikash, Nagad, and email/SMS services.
 - Online tutorials and documentation for HTML, CSS, and JavaScript.
 - Cloud hosting or local server for website deployment.
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8. Conclusion

The **Donation Website for Supporting Organizations** project aims to provide a secure, transparent, and user-friendly platform for donors to contribute to reputable organizations. By incorporating features such as secure payment options, verified organization profiles, donation tracking, and user feedback surveys, the platform will foster trust and encourage meaningful contributions. The collaboration with leading NGOs and organizations will ensure that a diverse range of causes is represented, making the platform an invaluable resource for both donors and organizations seeking to create positive social change.

9. References

- **Web Development Documentation:** MDN Web Docs (HTML, CSS, JavaScript)
 - **Payment Gateway API Documentation:** Bikash [official website], Nagad [official website]
 - **Twilio API Documentation:** [Twilio Official Docs](#)
 - **Security Standards:** OWASP Top 10 (for web application security)
 - **Data Privacy Regulations:** GDPR Guidelines [Official EU website]
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