

Feasibility Study for CHARITEX Donation System

A feasibility study evaluates the viability of the CHARITEX donation system by analyzing various factors to determine whether it is practical and beneficial to proceed with its development and implementation.

1. Technical Feasibility

This section evaluates whether the system can be developed with the available technology and resources.

- **Technology Stack:**
 - **Frontend:** HTML, CSS, JavaScript (and frameworks like Bootstrap or Tailwind CSS for responsive design).
 - **Backend:** PHP or Node.js for server-side processing.
 - **Database:** MySQL or PostgreSQL for managing data like users, donations, and causes.
 - **Hosting:** Can be hosted on affordable platforms like AWS, DigitalOcean, or shared hosting providers.
 - **Technical Capabilities:**
 - The technology stack is widely supported and scalable.
 - Developers familiar with web development tools can efficiently build the system.
 - Open-source frameworks and tools reduce the cost of development.
 - **Risks:**
 - Limited experience with integrating payment gateways may require additional research.
 - Ensuring data security and GDPR compliance could be technically challenging but achievable.
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2. Operational Feasibility

This section determines whether the system aligns with the goals and requirements of stakeholders.

- **User Benefits:**
 - **Donors:** A simple platform to donate, track impact, and get receipts for tax deductions.
 - **Volunteers:** Easy registration, task management, and participation in meaningful causes.
 - **Administrators:** Tools to manage causes, donations, and volunteer assignments seamlessly.
- **Ease of Use:**
 - The system is designed to be intuitive, requiring minimal training for administrators.

- Responsive design ensures compatibility with mobile devices, increasing accessibility. • **Organizational Fit:**
 - CHARITEX aligns with the mission of empowering positive social change by facilitating charity and volunteer work. ○ The system streamlines existing manual processes, reducing administrative overhead.
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3. Economic Feasibility

This section assesses the cost-effectiveness of building and operating the system.

- **Development Costs:**
 - Initial development can be handled by a small team of developers using opensource technologies. ○ Estimated cost for development: \$2,000 - \$5,000, depending on the complexity.
 - **Operational Costs:**
 - Hosting: \$10 - \$30 per month. ○ Maintenance: \$500 - \$1,000 annually (for updates and minor fixes).
 - Payment Gateway Fees: ~2-3% per transaction.
 - **Potential Benefits:**
 - Increased donations due to a user-friendly platform. ○ Reduced time spent on manual processes like donation tracking and volunteer coordination.
 - Tax-deductible receipts and transparency will attract more donors, boosting revenue.
 - **Break-even Point:**
 - Assuming 100 donations of \$50 each in the first quarter, the system can recover its development cost within 6-12 months.
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4. Legal Feasibility

This section ensures that the system complies with laws and regulations.

- **Compliance:**
 - The system must comply with **GDPR** (General Data Protection Regulation) for data privacy and security.
 - Integration with payment gateways requires adherence to **PCI DSS** (Payment Card Industry Data Security Standard).
 - Ensuring transparent accounting to meet local taxation and charity laws.
 - **Risks:**
 - Failure to comply with data protection regulations may lead to penalties. ○ Legal consultations may be required for handling international donations.
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5. Social Feasibility

This section determines how the system will impact users and society. •

User Impact:

- Donors will feel more connected and confident due to transparency in fund utilization.
 - Volunteers will have easier access to opportunities to contribute to meaningful causes.
 - Beneficiaries (e.g., underprivileged children, orphans, elders) will directly benefit from streamlined fundraising and volunteer support.
 - **Community Impact:**
 - CHARITEX can raise awareness about pressing social issues and encourage broader participation in philanthropy.
 - Strengthens the bond between donors, volunteers, and beneficiaries through shared goals.
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6. Schedule Feasibility

This section evaluates whether the project can be delivered within a reasonable time.

- **Estimated Timeline:**
 - **Requirement Gathering:** 2 weeks.
 - **UI/UX Design:** 2-3 weeks.
 - **Frontend and Backend Development:** 6-8 weeks.
 - **Testing and Debugging:** 2 weeks.
 - **Deployment and Launch:** 1 week.
 - **Total Time:** ~3 months.