

High-Level Design (HLD) Document for NGO Web Application

PROJECT OVERVIEW

The objective of this project is to create a web application for Non-Governmental Organizations (NGOs) that enables the creation and management of fundraising campaigns. The application serves two primary user types: admins who manage the platform and users (general and registered) who contribute to campaigns.

OBJECTIVES

- Provide an intuitive platform for campaign management.
- Ensure secure processing of donations through reliable payment gateways.
- Implement user verification and notification systems.
- Facilitate communication between users and the NGO through queries and feedback.

TECHNICAL REQUIREMENTS

FUNCTIONAL REQUIREMENTS

Admin Section

1. Dashboard

- **Total Contribution & Expenditure :**
 - Visualization: Line chart (X-axis: Months, Y-axis: Amount).
- **Campaign Count:**
 - Filters: Total, Month-wise, Week-wise, Today (card)
 - Campaign Status: Upcoming, Ongoing, completed and cancellation. (bar chart)
- **User Statistics (Pie Chart):**
 - Total General Users.
 - Total Registered Users.

2. Campaign

- New campaign application, status cancel

3. Registered User Management

- **Registered Users List:**
 - Information: Profile details, transaction history, no of campaign, campaign status.

4. **General User Management (Donor)**

- **General User List:**

- Information: Profile details, transaction history, filter campaign category

5. **Request**

- User verification, claim approval Process, campaign verification and cancellation.

6. **Queries**

- Manage and respond to user inquiries.

Register User Section

1. Register User

1. Dashboard

- **Total Contribution & Expense:**

- Visualization: Line chart (X-axis: Months, Y-axis: Amount).

- **Campaign Count:**

- Filters: Total, Month-wise, Week-wise, Today (card)
- Campaign Status: Upcoming, Ongoing, completed and cancellation. (bar chart)

2. Campaign

- Campaign List in tabular column (Upcoming, Ongoing, completed and cancellation).
- New campaign application
- Campaign's claims, status and cancel.

3. Transaction

- **Transaction List:**

- Details: Name, Amount, Time of Transaction.

Landing Page

1. Home:

- **Campaigns:** Ongoing and completed in scroll
- **Campaign details:** Transaction
- **Bills and Receipts:** Email confirmation.

2. Contact(footer):

- **Issues:** Track and manage user-reported issues.

TECHNICAL PROCESS FLOW

- User visits the homepage.
- User registers or log in.
- Admin accesses the dashboard to view key metrics.
- Registered users can view their dashboard and manage their contributions.
- Admin manages user accounts and queries via the inbox.
- Users make donations through secure payment gateways.
- Notifications and updates are sent to users via email.
- Admin generates reports and analyzes user engagement and financial data.

CAMPAIGN CATEGORIES

- Medical
- Education
- Food
- Natural Disaster
- Others

CONSIDERATIONS

User-Friendly Design

- Responsive design for mobile and tablet compatibility.
- Intuitive navigation with clearly defined menus and actions.

Compelling Content

- Clearly stated mission and vision.
- Success stories and testimonials showcasing the NGO's impact.

Accountability

- Regular financial updates, including transparency in funding sources.

Information Accessibility

- Easy-to-use contact forms and links to social media platforms for broader engagement.

Multilingual Support

- Consider offering language options to cater to a diverse audience.