**User Flow and Functionality:**

**1. Home Page:**

* **What Users See:**
  + **Hero section with a call to action.**
  + **Live Donation Feed showing recent donations.**
  + **Statistics Section with donation trends using Chart.js.**
  + **Testimonials from beneficiaries and donors.**
  + **Theme Toggle to switch between light (white with blue) and dark (blue with white) themes.**
* **Functionalities Used:**
  + **Theme Toggle for a modern, personalized experience.**
  + **Lazy Scrolling – Loads images and sections as users scroll.**
  + **Scroll Animations – Smooth entry effects using AOS or GSAP.**
  + **Chart.js – For visualizing donation trends.**
  + **Firebase Realtime Database – To show live donations.**

**2. Donation Page:**

* **What Users See:**
  + **Donation Form to contribute food, funds, or volunteer.**
  + **Live Donation Goal Tracker with animated progress bars.**
  + **Real-time updates on total donations.**
* **Functionalities Used:**
  + **Firebase Realtime Database – To store donations.**
  + **Form Validation – Ensures all fields are filled.**
  + **Live Donation Counter – Dynamic updates using Firebase listeners.**
  + **Theme Toggle for consistent user experience.**

**3. User Dashboard (After Login):**

* **What Users See:**
  + **Personalized dashboard showing donation history.**
  + **Downloadable donation receipts.**
  + **Leaderboard showing top donors.**
* **Functionalities Used:**
  + **Firebase Authentication – Login with Email and Google Sign-In.**
  + **Data Visualization – Using Chart.js for donation history.**
  + **Downloadable Receipts – Using JavaScript-generated PDFs.**
  + **Theme Toggle for personalized experience.**

**4. Admin Dashboard (For Admin Users):**

* **What Admins See:**
  + **Overview of total donations, volunteers, and events.**
  + **Interactive Charts showing donation trends using Chart.js.**
  + **List of recent donations with options to approve or reject.**
* **Functionalities Used:**
  + **Admin Authentication – Separate login for admins using Firebase.**
  + **Data Visualization – Advanced charts with Chart.js.**
  + **Admin Actions – Approve or reject donations.**
  + **Notifications – Alerts for new donations or event registrations.**
  + **Theme Toggle for consistent branding.**

**5. Contact and About Page:**

* **What Users See:**
  + **Contact form for inquiries and feedback.**
  + **About section with mission, vision, and team members.**
* **Functionalities Used:**
  + **Form Validation – Success and error messages.**
  + **Scroll Animations – For team member cards.**
  + **Theme Toggle for cohesive styling.**

**Tech Stack Used:**

* **Frontend: HTML, CSS, JavaScript, Tailwind CSS, Bootstrap.**
* **Backend: Firebase Realtime Database.**
* **Authentication: Firebase Auth (Email and Google Sign-In).**
* **Charts and Analytics: Chart.js.**
* **Lazy Loading and Animations: AOS or GSAP.**
* **Theme Toggle: Custom-built with Tailwind CSS.**

**Development Plan (2-3 Days):**

**Day 1: Basic Structure and Home Page**

* **Set up Firebase project and initialize Firebase in the project.**
* **Design the Home Page with:**
  + **Hero Section.**
  + **Live Donation Feed using Firebase.**
  + **Statistics Section with Chart.js.**
  + **Lazy Scrolling and Scroll Animations.**
  + **Theme Toggle implementation for light and dark modes.**
* **Implement Firebase Realtime Database to display live donations.**

**Day 2: Donation Page and User Dashboard**

* **Create the Donation Page with:**
  + **Donation Form with Firebase integration.**
  + **Live Donation Goal Tracker.**
  + **Theme Toggle for consistent UI.**
* **Implement User Authentication with Firebase Auth.**
* **Design the User Dashboard:**
  + **Show donation history using Chart.js.**
  + **Add Leaderboard for top donors.**
* **Add Form Validation for better user experience.**

**Day 3: Admin Dashboard and Final Touches**

* **Build the Admin Dashboard with:**
  + **Overview of donations, events, and volunteers.**
  + **Interactive Charts using Chart.js.**
  + **Admin Actions (approve/reject donations).**
  + **Theme Toggle for consistent styling.**
* **Integrate Admin Authentication for secure access.**
* **Finalize UI using Tailwind CSS and Bootstrap.**
* **Test all functionalities and fix any bugs.**

**Next Steps and Enhancements:**

* **Add Event Management for organizing donation drives.**
* **Integrate Google Maps API to locate nearby donation centers.**
* **Implement Payment Gateway Integration for monetary donations.**
* **Improve animations and lazy loading for faster page speed.**

**1. Home Page:**

**Navbar:**

* **Position:** Fixed at the top with slight transparency for a modern look.
* **Elements:**
  + Logo (Clickable, redirects to Home).
  + Navigation Links: Home, Donate, Events, About, Contact.
  + **Buttons:**
    - "Login" (Primary button style).
    - "Theme Toggle" (Icon-based switch).
* **Styles:**
  + Light Theme: White background with classic blue text.
  + Dark Theme: Bold blue background with white text.

**Hero Section:**

* **Call to Action Button:**
  + Text: "Donate Now" or "Join Us" (Primary, prominent).
  + Styles:
    - Light Theme: Blue button bvbvbv vb b with white text.
    - Dark Theme: White button with blue text.
  + Hover Effects: Subtle shadow and scaling effect.

**Live Donation Feed:**

* **List Style:**
  + Vertical feed of recent donations.
  + Cards with donor name, amount, and timestamp.
* **Buttons:**
  + "View More" (Secondary button).
* **Lazy Scrolling and Scroll Animations** for smooth loading.

**Statistics Section:**

* **Charts:**
  + Using Chart.js for donation trends and statistics.
  + Professional and clean design.
* **Buttons:**
  + Toggle between different data views (e.g., Daily, Weekly, Monthly).

**Testimonials:**

* **Carousel/Slider** using Swiper.js for smooth sliding effects.
* **Navigation Dots** or Arrows for moving between testimonials.

**2. Donation Page:**

**Donation Form:**

* **Form Elements:**
  + Input fields: Name, Email, Amount, Message.
  + Dropdown: Select donation type (Food, Funds, Volunteer).
  + Radio Buttons: Payment options (Optional).
* **Buttons:**
  + "Donate Now" (Primary, attention-grabbing).
  + "Reset Form" (Secondary).
* **Validation Messages:**
  + Subtle animations for error and success messages.

**Live Donation Goal Tracker:**

* **Progress Bar:**
  + Animated, showing real-time updates.
  + Styles:
    - Light Theme: Blue progress with white background.
    - Dark Theme: White progress with blue background.
* **Tooltip:**
  + Shows the percentage completed.

**3. User Dashboard (After Login):**

**Sidebar Navigation:**

* **Elements:**
  + Links: Dashboard, Donation History, Receipts, Leaderboard, Settings.
* **Styles:**
  + Collapsible sidebar for better mobile responsiveness.
* **Icons:**
  + Use simple, monochromatic icons for a clean look.

**Donation History:**

* **Table Style:**
  + Columns: Date, Amount, Type, Status.
  + Sortable by date or amount.
* **Buttons:**
  + "Download Receipt" (Primary button with a download icon).

**Leaderboard:**

* **List Style:**
  + Ordered list of top donors.
  + Highlight the top 3 donors for gamification.
* **Badges:**
  + Gold, Silver, and Bronze badges for top donors.

**4. Admin Dashboard (For Admin Users):**

**Top Navigation Bar:**

* **Elements:**
  + Logo and Title ("Admin Dashboard").
  + Notifications Icon.
  + Profile Dropdown (with Logout option).

**Sidebar Navigation:**

* **Links:**
  + Overview, Manage Donations, Manage Events, Users & Volunteers, Reports, Settings.
* **Icons:**
  + Professional, monochrome icons for each link.

**Overview and Reports:**

* **Charts and Graphs:**
  + Interactive and animated using Chart.js.
  + Toggle buttons for viewing different metrics (e.g., Donations vs. Volunteers).

**Manage Donations and Events:**

* **Tables:**
  + Detailed view of donations with filters (e.g., date, status).
  + Action Buttons: Approve, Reject, Mark as Fulfilled.
* **Modals:**
  + For editing event details or donation information.

**5. Contact and About Page:**

**Contact Form:**

* **Form Elements:**
  + Input fields: Name, Email, Subject, Message.
* **Buttons:**
  + "Submit" (Primary button with hover effect).
  + **Validation Messages** for errors and success feedback.

**About Section:**

* **Cards Style:**
  + Team Member Cards with images, names, and roles.
  + Social Media Icons with hover animations.
* **Scroll Animations** for smooth appearance.

**6. General Components:**

**Buttons:**

* **Primary Buttons:**
  + Blue background with white text for Light Theme.
  + White background with blue text for Dark Theme.
  + Rounded corners and soft shadows for a modern look.
* **Secondary Buttons:**
  + Border-only style with subtle hover effect.

**Lists and Cards:**

* **Card Style:**
  + Soft shadows, rounded corners.
  + Hover effect: Slight scale-up and shadow increase.
* **Lists:**
  + Clean bullet points with subtle animations.

**Theme Toggle:**

* **Position:** Top right corner in the navbar.
* **Style:**
  + Icon-based switch (Sun and Moon icons).
  + Smooth transition between themes.
* **Themes:**
  + **Light Theme:** White with classic blue accents.
  + **Dark Theme:** Bold blue with white accents.

**Design Principles and Best Practices:**

* **Consistency:**
  + Consistent padding and margin for a balanced layout.
* **Color Scheme:**
  + Minimalist monochrome palette for a professional look.
  + Light Theme: White and classic blue.
  + Dark Theme: Bold blue and white accents.
* **Typography:**
  + Clean, modern font (e.g., Poppins or Roboto).
  + Varied font sizes for hierarchy and emphasis.

**🌞 Light Mode:**

* **Background:** #FFFFFF (Pure White) – Clean and minimalistic.
* **Primary Text:** #2C3E50 (Dark Navy) – High contrast for readability.
* **Secondary Text:** #576574 (Muted Grayish Blue) – For subtitles and descriptions.
* **Primary Accent:** #3498DB (Classic Blue) – Buttons and links for a modern, trustful look.
* **Secondary Accent:** #1ABC9C (Soft Teal) – Highlights and call-to-action elements.
* **Card Background:** #F4F6F7 (Light Gray) – Subtle contrast for cards and sections.
* **Border Color:** #D1D8E0 (Soft Gray) – Delicate dividers and borders.
* **Button Hover:** #2980B9 (Darker Blue) – Slightly darker shade for hover effect.

**🌙 Dark Mode:**

* **Background:** #1E1E2F (Deep Charcoal) – Easy on the eyes for dark mode.
* **Primary Text:** #F5F5F5 (Almost White) – High contrast for readability.
* **Secondary Text:** #BDC3C7 (Light Gray) – Subdued text for less focus.
* **Primary Accent:** #3498DB (Classic Blue) – Same as light mode for consistency.
* **Secondary Accent:** #1ABC9C (Soft Teal) – For interactive elements and links.
* **Card Background:** #2F2F3F (Dark Charcoal) – Slight contrast for cards.
* **Border Color:** #3C3C4F (Muted Charcoal) – Subtle borders and dividers.
* **Button Hover:** #2980B9 (Darker Blue) – Consistent hover effect with light mode.