FACULTY OF COMPUTER SCIENCES AND MATHEMATICS

NBCS2404A – ENTERPRISE PROGRAMMING

BUSINESS CASE: DONATION & CHARITY MANAGEMENT SYSTEM FOR MEDICAL AID
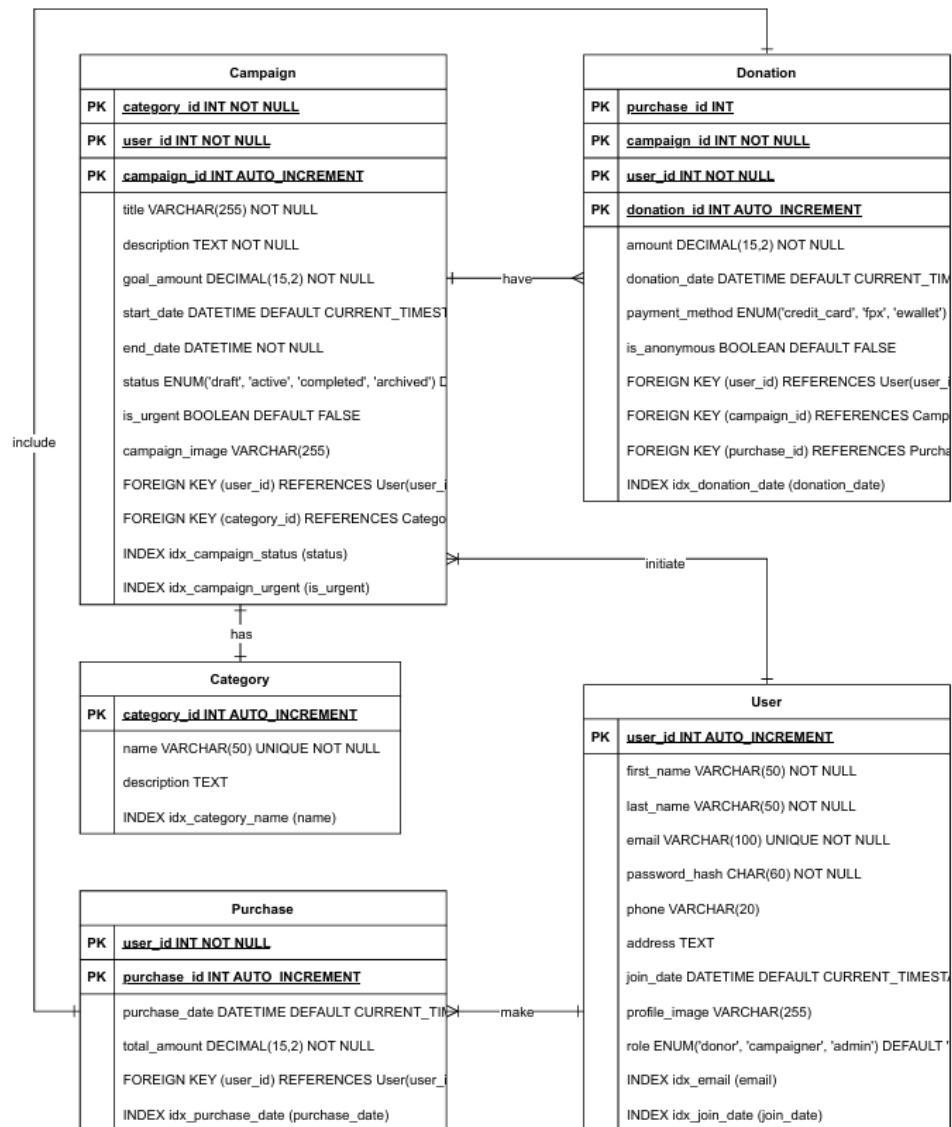
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1.0 Final Database Design

Campaign

PK	category_id INT NOT NULL
PK	user_id INT NOT NULL
PK	campaign_id INT AUTO_INCREMENT
	title VARCHAR(255) NOT NULL
	description TEXT NOT NULL
	goal_amount DECIMAL(15,2) NOT NULL
	start_date DATETIME DEFAULT CURRENT_TIMEST
	end_date DATETIME NOT NULL
	status ENUM('draft', 'active', 'completed', 'archived') D
	is_urgent BOOLEAN DEFAULT FALSE
	campaign_image VARCHAR(255)
	FOREIGN KEY (user_id) REFERENCES User(user_
	FOREIGN KEY (category_id) REFERENCES Catego
	INDEX idx_campaign_status (status)
	INDEX idx_campaign_urgent (is_urgent)

Donation

PK	purchase_id INT
PK	campaign_id INT NOT NULL
PK	user_id INT NOT NULL
PK	donation_id INT AUTO_INCREMENT
	amount DECIMAL(15,2) NOT NULL
	donation_date DATETIME DEFAULT CURRENT_TIM
	payment_method ENUM('credit_card', 'fpx', 'ewallet')
	is_anonymous BOOLEAN DEFAULT FALSE
	FOREIGN KEY (user_id) REFERENCES User(user_
	FOREIGN KEY (campaign_id) REFERENCES Camp
	FOREIGN KEY (purchase_id) REFERENCES Purcha
	INDEX idx_donation_date (donation_date)

have

include

initiate

has

Category

PK	category_id INT AUTO_INCREMENT
	name VARCHAR(50) UNIQUE NOT NULL
	description TEXT
	INDEX idx_category_name (name)

User

PK	user_id INT AUTO_INCREMENT
	first_name VARCHAR(50) NOT NULL
	last_name VARCHAR(50) NOT NULL
	email VARCHAR(100) UNIQUE NOT NULL
	password_hash CHAR(60) NOT NULL
	phone VARCHAR(20)
	address TEXT
	join_date DATETIME DEFAULT CURRENT_TIMEST/
	profile_image VARCHAR(255)
	role ENUM('donor', 'campaigner', 'admin') DEFAULT '
	INDEX idx_email (email)
	INDEX idx_join_date (join_date)

Purchase

PK	user_id INT NOT NULL
PK	purchase_id INT AUTO_INCREMENT
	purchase_date DATETIME DEFAULT CURRENT_TIN
	total_amount DECIMAL(15,2) NOT NULL
	FOREIGN KEY (user_id) REFERENCES User(user_
	INDEX idx_purchase_date (purchase_date)

make

This diagram illustrates a crowdfunding platform system with five main tables: Campaign, Category, Purchase, Donation, and User (labeled as "Initial" in the diagram). The system allows users to create and donate to fundraising campaigns across different categories.

User Role:

- Users can create multiple campaigns (as campaigners) with details like title, description, goal amount, and duration

- Users can make donations to campaigns using various payment methods
- User profiles contain personal information (name, email, password) and join date
- Users have different roles: donor, campaigner, or admin

Campaign Structure:

- Each campaign belongs to a specific category (e.g., Arts, Technology)
- Campaigns have statuses: draft, active, completed, or archived
- Campaigns can be flagged as "input" (possibly for verification)
- Campaigns include financial goals and timeframes (start/end dates)

Donation Process:

- Donations are processed through purchases
- Each donation records the amount, payment method, and date
- Payment methods include credit card, PayPal ("fix" appears to be a typo), and Twitter
- Donations can be marked as encrypted for security

Purchase Process:

- Acts as a receipt system before a donation is finalized.
- Ensures traceability of funds (useful for refunds, audits, or analytics).

Category Features:

- Helps users discover campaigns by interest.
- Ensures campaigns are logically grouped for reporting and recommendations.

Data Relationships:

- Users can create multiple campaigns (one-to-many)
- Categories contain multiple campaigns (one-to-many)
- Users can make multiple donations/purchases (one-to-many)
- Each donation is linked to both a user and a campaign

USER MANUAL GUIDE (DONATION & CHARITY SYSTEM)

2.0 LOGIN PAGE
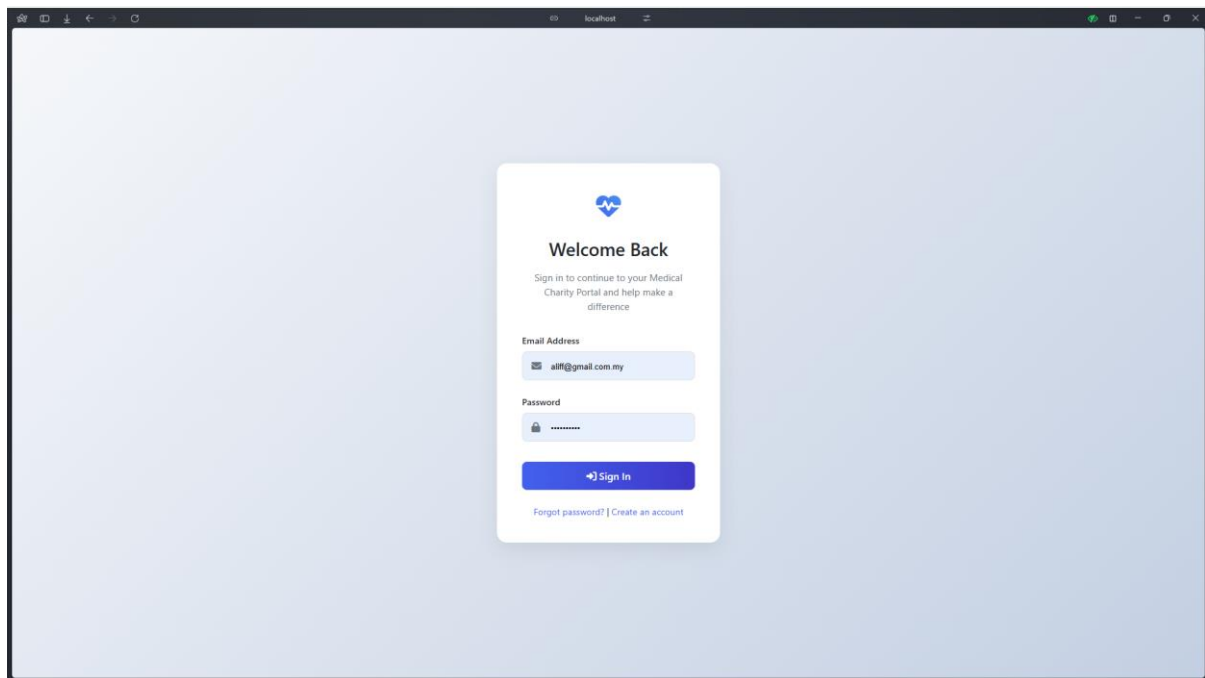
FIGURE 2.0.1 LOGIN PAGE

Description: Login interface for a Medical Charity Portal, designed to allow users allow users to sign in and continue their contributions or activities related to medical charity work.
These are the features at Login Page:

1. Login Form:
   a. Email Address Field – Users must enter their registered email.
   b. Password Field – Secure input for account authentication.
   c. "Sign In" Button – Submits credentials for access.
2. Footer Links:
   a. "Forgot password?" – Allows users to reset their password if needed.
   b. "Create an account" – Directs new users to a registration page.

2.1 SIGN-UP FORM
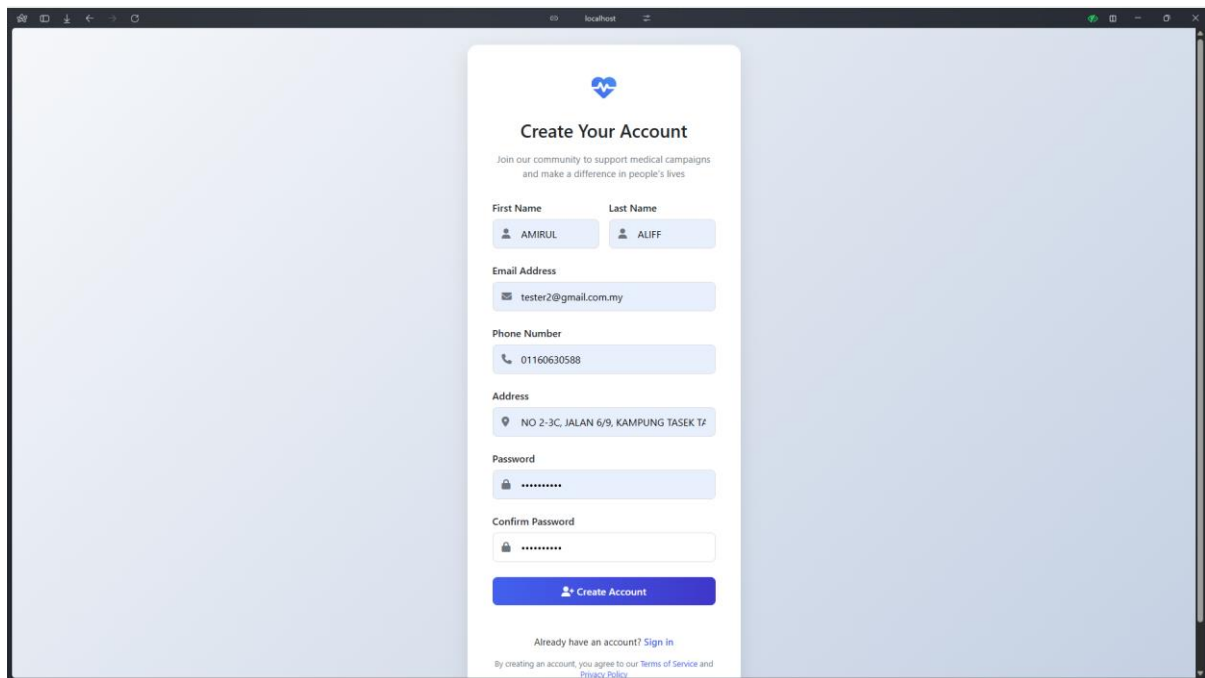
FIGURE 2.1.1 SIGN-UP FORM

Description: Displays a "Create Your Account" registration page for a Medical Charity Portal, inviting users to join a community focused on supporting medical campaigns and making a positive impact. These are the features at Sign-Up Form Page:

1. Registration Form Fields:
   a. First Name & Last Name – Input fields for the user's full name.
   b. Email Address – Required for account creation and communication.
   c. Phone Number – Optional or required contact detail (likely for verification or updates).
   d. Password & Confirm Password – Secure fields for setting and confirming a password.
2. Action Button:
   a. "+ Create Account" – Button to submit the registration details.
3. Footer Links & Legal Text:
   a. "Already have an account? Sign in" – Redirects existing users to the login page.
   b. Terms of Service and Privacy Policy – Legal disclaimer ensuring users agree to platform policies.

2.2 UPDATE PASSWORD
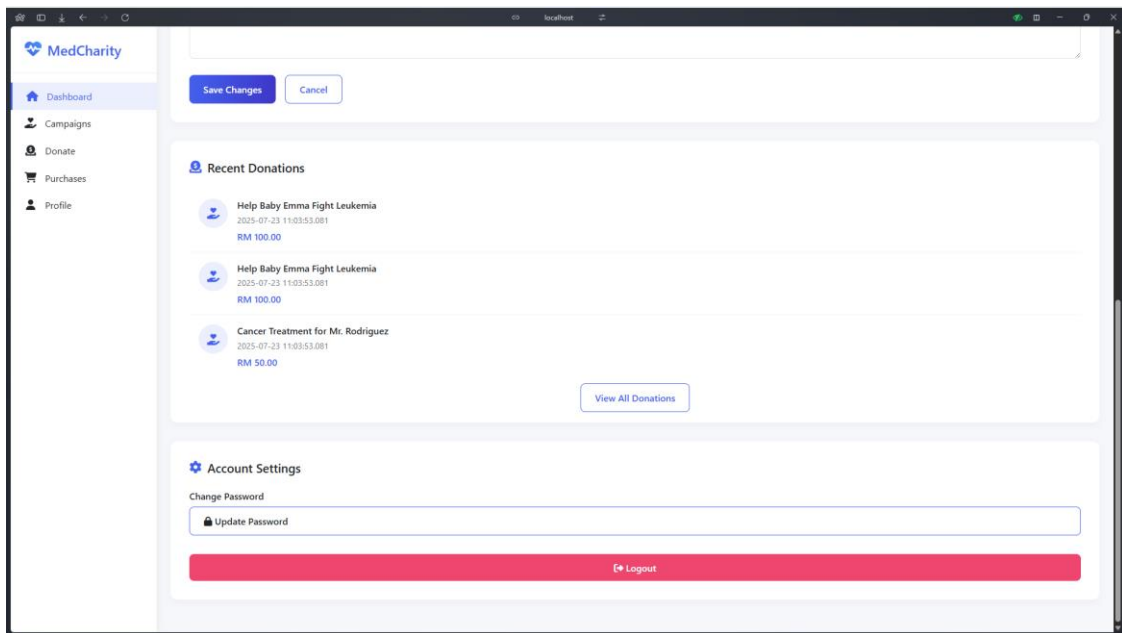
FIGURE 2.2.1 UPDATE PASSWORD
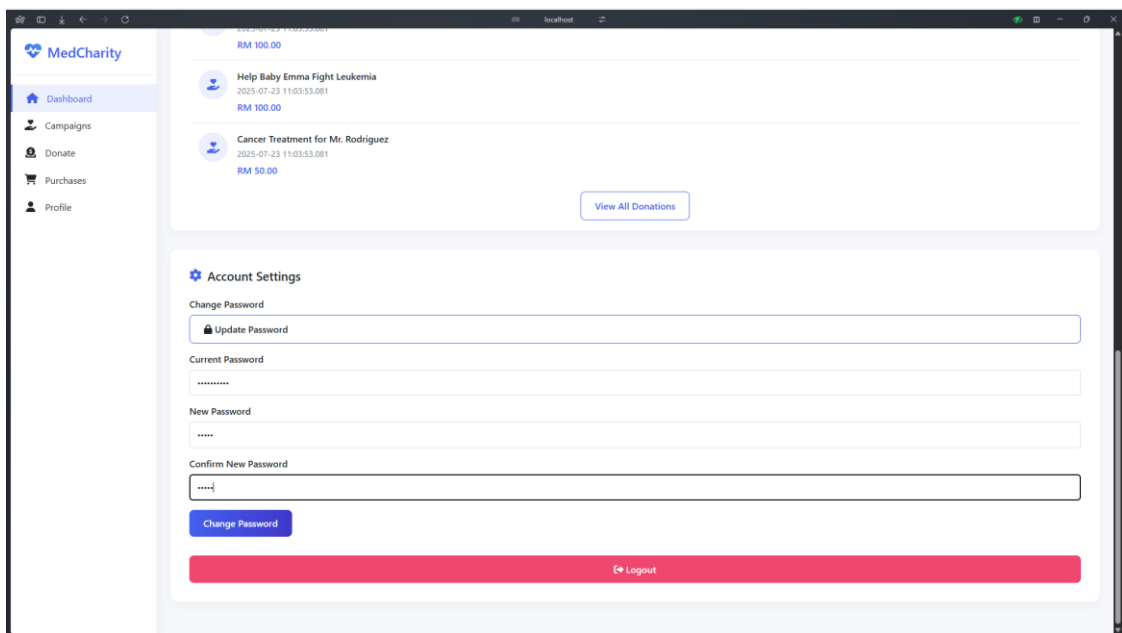
FIGURE 2.2.2 UPDATE PASSWORD

Description: displays an "Account Settings" interface, specifically focusing on the "Change Password" section. The design is clean and functional, guiding users through the process of updating their password.

1. Password Update Section:
    a. Update Password Option:

      i.   In the first version, labeled with an "@" symbol: "@ Update Password" (likely a placeholder or icon).

      ii. In the second version, listed as a bullet point: "- Update Password" under the "Change Password" heading.

b. Input Fields (Second Version Only):

      i.   Current Password

      ii. New Password

      iii. Confirm New Password

c. Action Button (Second Version Only):

      i.   Labeled "Change Password" at the bottom of the form.

3.0 Dashboard View
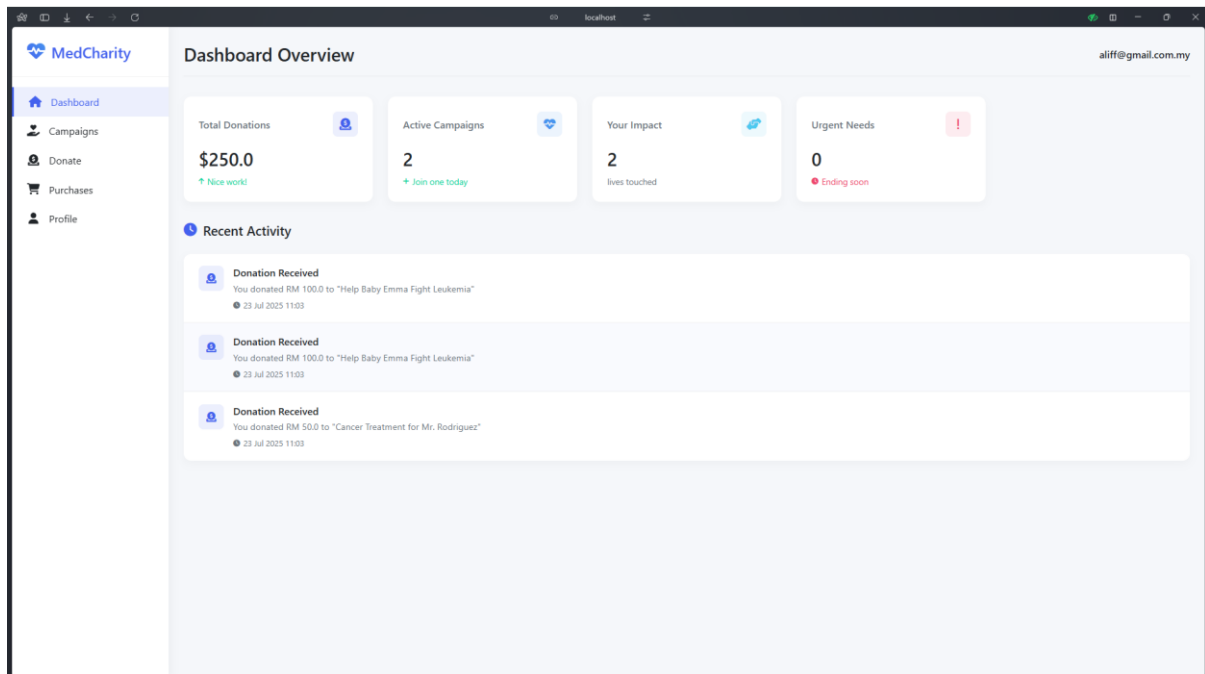
FIGURE 3.0.1 DASHBOARD PAGE

Description: Displays a user dashboard for a medical charity platform, providing donors and campaigners with a comprehensive overview of their activities, impact, and urgent causes. The dashboard is designed to keep users informed and engaged with real-time updates. These are the features at Dashboard Page:

1. Navigation & Structure
- Header:
   a. Platform Name: "MedCharity" (top-left).
   b. Page Title: "Dashboard Overview" (main section).
- Sidebar Menu:

     c. Active Tab: "Dashboard" (highlighted).

     d. Other Options: "Campaigns" (typo), "Donate," "Purchases," "Profile."

2. Summary Metrics

     a. Total Donations ($250.0)

          i. Shows a 12% increase from the previous month, indicating growth in contributions.

     b. Active Campaigns (2)

          i. Includes 2 new campaigns added this week, highlighting platform activity.

     c. Your Impact (2)

          i. Tracks lives touched or supported through the user's donations.

     d. Urgent Needs (0)

          i. Alerts users to time-sensitive campaigns ending soon.

3. Recent Activity Feed

Three donation records (duplicate entries suggest a bug):

- Donation to "Help Baby Emma Fight Ledesma"

     a. Amount: RM 100.0.

     b. Date: 23 Jul 2025 11:03

- Donation to "Cancer Treatment for Mr. Rodriguez"

     c. Amount: RM 50.0.

     d. Date: 23 Jul 2025 11:03.

4.0 CAMPAIGN PAGE
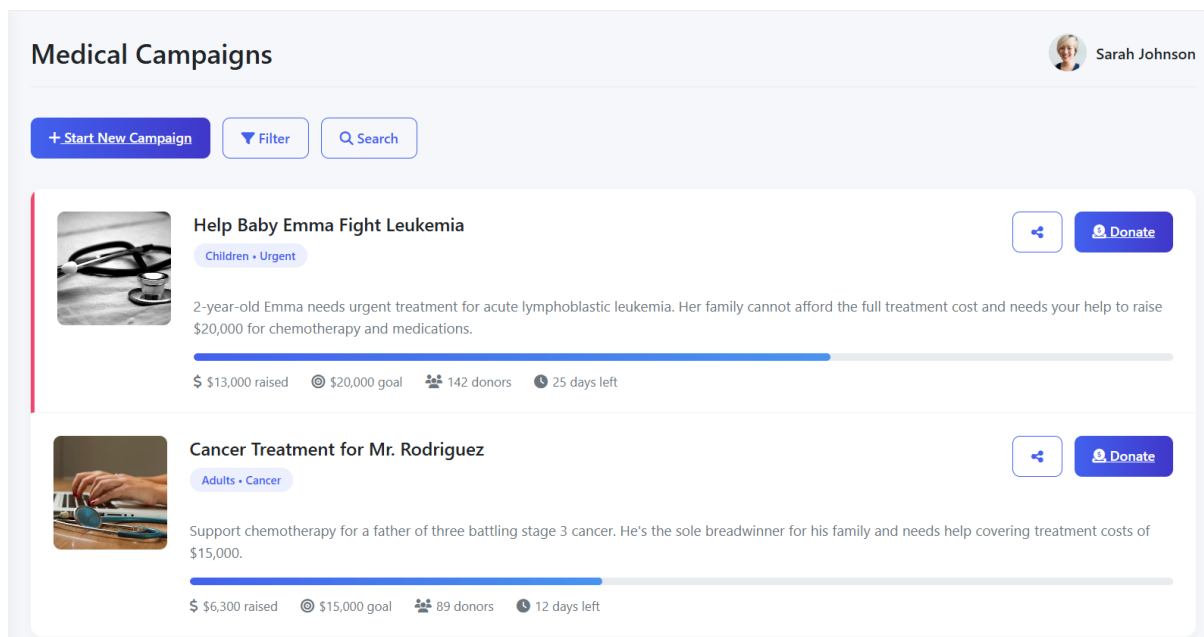
FIGURE 4.0.1 CAMPAIGN PAGE

Description: Displays a medical campaigns platform where users can discover, support, and create campaigns for urgent healthcare needs. The interface is designed to connect donors with critical medical causes through transparent, emotionally compelling appeals. These are the features at Medical Campaigns Page:

1. Action Bar (Top Section)
   a. + Start New Campaign: Prominent button for users to initiate their own fundraiser
   b. Filter & Search: Tools to navigate campaigns by category or keywords
2. Featured Campaign Listings

A. Help Baby Emma Fight Leukemia

   a. Category: Children - Urgent (highlighted for immediate attention)
   b. Story: Emotional narrative about a 2-year-old needing RM20,000 for leukemia treatment
   c. Progress Metrics:
      i. RM513,000 raised (exceeding RM20,000 goal - likely a typo)
      ii. 142 donors
      iii. 25-day deadline

B. Cancer Treatment for Mr. Rodriguez

   d. Category: Adults - Cancer
   e. Story: Father of three needing RM15,000 for stage 3 cancer therapy

f. Progress Metrics:
        i. RM56,300 raised
        ii. 89 donors
        iii. 12-day urgency

5.0 DONATE PAGE

FIGURE 5.0.1 DONATE PAGE

Description: Shows a donation page,highlighting both functional elements and areas needing improvement: These are the features at Donation Page:

1. Campaign Selection
- Dropdown: Labeled "Select Campaign" with placeholder text "-- choose one.

2. Donation Amount Section

- Header: "Your contribution helps save lives" (inspirational call-to-action).
- Pre-set Amounts (labeled in MTR, possibly a typo for "MYR" [Malaysian Ringgit]):
    o RM 50 | RM 100 | RM 200 | RM 500 | RM 1000
    o "Other" option (for custom amounts).
- Custom Amount Field:
    o Labeled "Or enter custom amount".
    o Default value: "BM:0.00" (likely a placeholder; "BM" may be a typo for "RM").

- Optional Message:
    - Placeholder text: "Add a message...".

3. Additional Options

- Checkbox: "Domite anonymously" (typo: likely "Donate anonymously").
- Action Button:
    - Labeled "Domite Now" (inactive, unchecked; typo for "Donate Now").
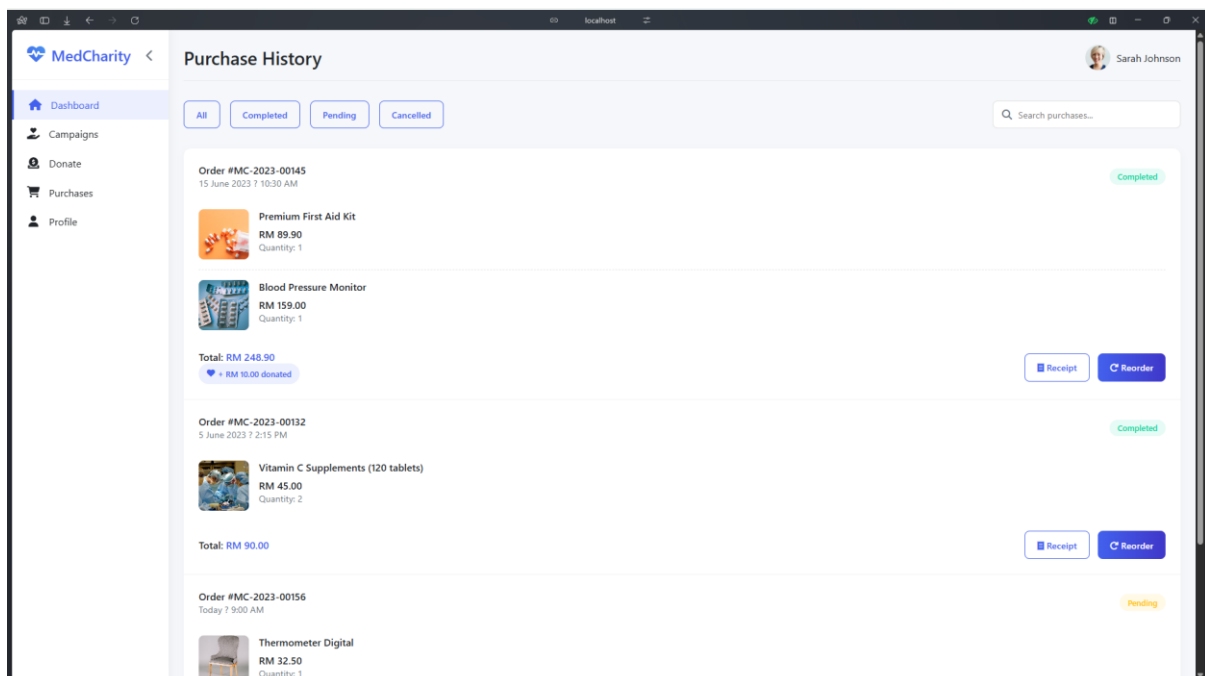
6.0 PURCHASE PAGE

FIGURE 6.0.1 PURCHASE PAGE

Description: Displays a purchase interface with a mix of purchase records, service subscriptions, and administrative tracking items. The layout suggests this may be part of a

business procurement system, logistics platform, or enterprise resource management tool. These are the features at Purchase Page:

1. Order Status Filter
    a. Tabs for: All | Completed | Pending | Cancelled
    b. Allows users to quickly sort their purchase history
2. Order Details
    Order #MC-2023-00145 (15 June 2023)
    a. Premium First Aid Kit: RM89.90 (Qty: 1)
    b. Blood Pressure Monitor: RM159.00 (Qty: 1)
    c. Subtotal: RM248.90
    d. Donation: RM10.00 (optional charity contribution at checkout)

Order #MC-2023-00132 (5 June 2023)

    e. Vitamin C Supplements: RM45.00 (Qty: 2)
    f. Subtotal: RM90.00

7.0 PROFILE PAGE

FIGURE 7.0.1 PROFILE PAGE

Description: Design presents a comprehensive profile management system for donors on a medical charity platform, combining personal information with donation tracking functionality. These are the features at Profile Page:

1. User Summary:
    a. Name: "amirul abu" (likely the profile owner).
    b. Email: "Diff@gmail.com.my" (possibly a display error, as it differs from the email in the Personal Information section).
    c. Balance: "3 RM 250.0" (may indicate a wallet balance or donations, with unclear formatting).
    d. Badges/Metrics:
        i. "Founders" (could denote membership level or role).
        ii. "Total Given" (likely total donations contributed).
        iii. "Campaigns" (possibly campaigns created or supported).
2. Action Buttons:
    a. Save Changes: To update edited profile details.
    b. Cancel: Discards changes.