**Graduation Project: "Nabd Elhayat" - Charity Donation System**

**1. User Roles**

The system consists of two main user roles:

* **Donor**: Users who can make donations and track their donation history.
* **Administrator**: Responsible for managing the platform, overseeing donations, verifying transactions, and generating reports.

**2. UI/UX Design & Prototyping**

**Wireframes & Mockups**

* Design screens and visual representations of the user interface, ensuring a seamless experience for both donors and administrators.
* Create interactive mockups for key functionalities such as:
  + **Donation Process**: A step-by-step guide for donors to select donation categories, enter payment details, and confirm transactions.
  + **User Registration & Authentication**: Secure registration and login pages with password recovery options.
  + **Donor Dashboard**: Displays donation history, receipts, and personal account settings.
  + **Admin Dashboard**: Provides statistics on donations, user management, and system activity monitoring.
  + **Receipt Generation & Email Notifications**: Automatic generation of digital receipts and email confirmation for successful transactions.

**UI/UX Guidelines**

* **Design Principles**:
  + Simplicity: Ensure a clean and intuitive interface.
  + Consistency: Maintain uniformity in design elements across all pages.
  + Accessibility: Support users with disabilities through screen reader compatibility and proper color contrast.
* **Color Schemes**:
  + Primary colors: Blue and green for a sense of trust and reliability.
  + Secondary colors: White and gray for a clean, minimalistic look.
* **Typography**:
  + Headings: Bold and readable (e.g., Montserrat or Open Sans).
  + Body Text: Clear and concise (e.g., Roboto or Arial).
* **User Experience Enhancements**:
  + Mobile responsiveness for easy navigation on different devices.
  + Clear call-to-action (CTA) buttons for donations and user interactions.

**3. System Deployment & Integration**

**Technology Stack**

* **Backend**: ASP.NET MVC
* **Frontend**: HTML, CSS, JavaScript, Bootstrap for responsiveness.
* **Database**: SQL Server with optimized queries for efficient data retrieval.
* **Authentication**: JWT (JSON Web Token) for secure access control.
* **Payment Gateway Integration**: Secure third-party payment APIs (e.g., PayPal, Stripe) to facilitate transactions.

**Deployment Diagram**

Illustrates how the system’s components are distributed across different hardware elements:

* **Web Server**: Hosts the ASP.NET MVC application and serves web pages to users.
* **Database Server**: Stores user profiles, donation records, and authentication data.
* **Authentication Module**: Handles JWT token-based authentication for secure user access.
* **Payment Gateway Server**: Processes transactions securely through integrated APIs.

**Component Diagram**

Describes high-level system components and their dependencies:

* **User Interface (Frontend)**: Handles user interactions, collects input, and sends requests to the backend.
* **Backend (Business Logic Layer)**: Processes requests, applies business rules, and interacts with the database.
* **Database Layer**: Stores users, donations, authentication data, and logs transactions securely.
* **Authentication Module**: Implements JWT for token-based authentication and user verification.
* **Payment Integration Module**: Manages secure online transactions, ensuring donor contributions are processed safely.
* **Notification System**: Sends email confirmations and alerts for donation status and user account activity.

This document provides a structured and detailed overview of the UI/UX design and system deployment for the "Dayman Bkheer" charity donation platform. Additional refinements can be made based on project progress and testing feedback.