Semester Project Proposal

INTERNET APPLICATION DEVELOPMENT

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Orphanage's Establishment System

1. Introduction

In many orphanages, records of children, donors, staff, and donations are still maintained manually, leading to inefficiencies, lack of transparency, and difficulty in access. The project aims to digitalize orphanage management with a user-friendly and secure web application that simplifies operations and enhances trust among stakeholders. It's my lifelong dream to establish an orphanage, manage it solely and give a beautiful life to all the forgotten children of the world.

2. Objectives

- To provide a centralized platform for managing children profiles, staff, donors, and donations.
- To ensure data security and validation at all stages.
- To support role-based access for Admins, Staff, and Donors.
- To automate reports, notifications, and tracking of daily orphanage activities.

3. Features and Functionalities

a. User Modules

- **Admin:** Full access, manage children, staff, donations, events.
- **Staff:** Update children's progress, mark attendance, manage inventory.
- **Donors:** View donation history, donate online, view impact reports.

b. Data-Driven Features

- Child registration with profile, health info, education status.
- Donation records with online payment integration.
- Inventory and daily expense tracking.
- Event management (birthdays, donation drives, etc.)

c. Security and Validation

- Encrypted user passwords.
- Input validation for forms (e.g., child age, donation amount).
- Secure session handling and data access control.

d. State Management

- Use of ViewState / SessionState to retain user interactions across the platform.

4. Tools and Technologies

- Front-End: ASP.NET Web Forms, HTML/CSS, JavaScript
- Back-End: VB.NET / C#
- Database: SQL Server
- Hosting: IIS / Web Hosting Platform

5. Benefits

- Transparency in donation tracking.
- Streamlined daily operations of the orphanage.
- Ease of access to data anytime, anywhere.
- Strengthened relationships with donors through online reports and updates.

6. Project Scope

This system will initially focus on orphanages within a region, with a plan to scale it to multiple orphanages across cities in future versions.