Project Proposal

KidCare+ Data Collection and Management System

Kavin Kavin Nanthakumar – s8049341

Mohamed Imaad-s8078260

1. Introduction

The **KidCare+ Data Collection and Management System** is designed to efficiently manage the enrollment, tracking, and progress monitoring of children in educational and extracurricular programs. The system will serve as a secure, centralized platform for storing children's personal details, attendance, health records, and progress reports. It will provide an easy-to-use interface for administrators, teachers, and parents, ensuring seamless communication and data management.

Objectives

- Digitize and centralize child records for easy access.
- Improve accuracy in tracking attendance and performance.
- Enhance communication between program administrators, teachers, and parents.
- Ensure data security and compliance with child protection regulations.

2. Functional Requirements

These define what the system must do to meet user needs.

User Management

- Secure login for different user roles (administrators, teachers, parents).
- Role-based access control (e.g, teachers can enter progress reports but not edit child personal details).

Child Registration & Data Storage

- Store personal details (name, age, parent contact, medical info).
- Assign children to specific programs and classes.

Attendance Tracking

- Log daily attendance for each child.
- Generate attendance summaries and trends.

Progress Monitoring

- Record academic performance and skills development.
- Allow teachers to input feedback and assessments.

Report Generation

- Create custom reports on attendance, performance, and enrollment statistics.
- Provide graphical dashboards for quick insights.

Communication Module

- Notify parents about attendance, upcoming events, and progress updates.
- Send automated reminders and alerts.

3. Non-Functional Requirements

These define system quality and constraints.

Security & Data Protection

- Encrypt sensitive child data to prevent unauthorized access.

- Implement multi-factor authentication (MFA) for administrators.

Scalability & Performance

- Support a growing number of children, teachers, and programs.
- Optimize database queries for fast access and reporting.

Usability & Accessibility

- Design an intuitive, user-friendly interface for all stakeholders.
- Ensure mobile compatibility for on-the-go access.

Backup & Recovery

- Automatic daily backups to prevent data loss.
- Easy restoration in case of system failure.

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