**Project Documentation: KidLogBook**

**1. Project Title**

**KidLogBook** : *A digital bridge between teachers and parents for daily child activity updates.*

**2. Project Overview**

**KidLogBook** is a web application designed to simplify communication between teachers and parents. It serves as a digital logbook where teachers can regularly update crucial details about a child’s school life—such as meals, homework, timetable,activities and feedback—which parents can access in real-time.

**3. Objective**

* To keep parents informed and involved in their child’s daily academic and personal development.
* To provide a structured platform for teachers to share daily updates seamlessly.
* To replace physical diaries with an interactive, online alternative.

**4. Key Features**

**🔹 Meal Menu**

* Daily/weekly meal plans can be uploaded by the teacher.
* Visual indicators for healthy eating habits or dietary preferences.

**🔹 Homework Updates**

* Subject-wise homework can be added for each student.
* Submission deadlines and reminders for parents.

**🔹 Time Table**

* Daily class schedules are accessible anytime.
* Changes in periods or events can be updated instantly.

**🔹 Teacher Feedback**

* Personalized feedback on student behavior, performance, or special attention areas.
* Option for teachers to mark achievements or concerns.

**🔹 Parent Notifications**

* Instant notifications via email for new updates.
* Summary view of child’s performance and daily reports.

**🔹 User Roles**

* **Teacher Login**: Can add/update student details.
* **Parent Login**: Can view the child's updates.
* **Admin Panel** (Optional): Manage school-wide access, users, and settings.

**5. Modules**

🔹 Parent Module

* View daily updates: meals, homework, timetable, activities and teacher feedback.
* Receive notifications via email for new updates.
* Access performance summaries and feedback history.
* Register using a link shared by the teacher (login allowed after admin verification).
* Update profile details and change password.

🔹 Teacher Module

* Add and update daily homework, meal menu, timetable, activities and feedback for each student.
* Upload files or notes relevant to parents.
* Track update history and manage multiple students.
* Register via link sent by the admin (login after verification).
* Update profile and password.

🔹 Admin Module

* Manage teacher and parent accounts.
* Monitor platform usage and activity logs.
* Configure system settings like notification preferences, school branding, and data backups.
* Approve/verify Parent and Teacher registrations.
* Send registration links to teachers.

**6. Technology Stack (Suggested)**

* **Frontend**: HTML, CSS, JavaScript, EJS (Embedded JavaScript)
* **Backend**: Node.js with Express (Framework)
* **Database**: MongoDB
* **Authentication**: JWT
* **Hosting**: Render or AWS (depending on scalability)
* **Notifications**: Email via Nodemailer

**7. Future Enhancements**

* Mobile app version for Android/iOS.
* Attendance tracking and performance analytics.
* Chat interface for direct parent-teacher interaction.
* Multi-language support for wider reach.

**8. Benefits**

* Real-time updates for parents.
* Reduces paper usage and manual record-keeping.
* Enhances student performance through regular monitoring.
* Builds stronger parent-teacher relationships.

**9. System Requirements**

Hardware Requirements:

* **RAM:** 4GB
* **Storage:** 128GB / 256GB / 512GB
* **Processor:** Intel i3 / i5 / i7

Software Requirements:

* **Operating System:** Windows, macOS, or Linux
* **Node.js:** Version 14 or later
* **MongoDB:** Community or Atlas version
* **Package Manager:** npm or yarn
* **Version Control:** Git and GitHub
* **Development Tools:**
  + Visual Studio Code (or any preferred IDE)
  + Postman for API testing