**🎯 Smart School Core Features (Updated with Parent Access)**

**1. Student Management**

* **Student Profiles:** Admission number, name, class, DOB, guardian details, parent contact.
* **Parent Integration:** Each student linked to parent account (phone/email + login).
* **Tracking:** Full academic history (per term, per year).

**2. Teacher & Class Management**

* **Teacher Accounts:** Created by Admin, with assigned classes/subjects.
* **Marks Access:** Teachers can only upload/view results for their assigned class/subject.
* **Audit Logs:** Track which teacher uploaded/edited marks.

**3. Exams & Results Management**

* **Exam Setup:** Admin defines terms/semesters, subjects, max scores.
* **Marks Upload:** Teachers upload marks manually or via Excel.
* **System Calculation:**
  + Per subject → total + percentage.
  + Overall → total, average, position.
* **Grades:** Attached only for reports (display layer).
* **Performance Tracking:** Long-term analysis (per subject, per term, per year).

**4. Fees Management**

* **Fee Setup:** Admin defines school fees per class/term.
* **Payment Records:** Accounts records payments, system calculates balances.
* **Outstanding Fees:** Defaulters list auto-generated.
* **Reminders:** Auto SMS/email to parents.
* **Parent View:** Parents can log in and see fees paid, balances, history.

**5. Reports & Communication**

* **Report Card (Student):**
  + Subject | Score | Percentage | Grade | Remark
  + Total, Average, Position
  + Teacher’s/Principal’s comment
  + Grading Legend included.
* **SMS Summary:**
  + “Jane Doe – Term 2: Avg 82%, Position 3/35. Fees Balance: GHC 200.”
* **Bulk Notifications:** Events, holidays, exam dates.
* **Parent Portal Access:**
  + View/download report cards (PDF).
  + View academic history (transcript).
  + View fees payment & balances.

**6. Security & Roles**

* **Admin:** Full control over system setup & management.
* **Accounts:** Fees, payments, receipts, balances.
* **Teachers:** Upload marks, view results of their assigned subjects.
* **Parents:**
  + Log in securely (web/mobile).
  + Access their child’s results and transcript.
  + Access fee payment records.

**🔄 Updated End-to-End Flow**

1. **Admin registers student** and links to parent account.
2. **Admin sets subjects, teachers, and fees** for the term.
3. **Parents pay fees → balances updated.**
4. **Teachers upload marks** for assigned classes.
5. **System calculates totals/averages → attaches grades.**
6. **Reports generated (PDF, SMS, Web).**
7. **Parents notified via SMS/email.**
8. **Parents log into portal** → view/download report card, transcript, and fee status.

✅ Now the system not only **tracks students, results, and fees** but also gives parents a **self-service portal** to:

* Monitor results and academic progress,
* Check transcripts,
* Track fee payments and balances.

👉 Would you like me to sketch out a **sample Parent Portal dashboard design** (with sections like “Results,” “Transcript,” “Fees,” “Notifications”), so you can visualize how parents would see it?