**School Management System Report**

**1. Description** The School Management System is a Java-based application designed to manage key aspects of a school's operations, including student registration, course enrollment, financial management, and faculty administration. It provides different roles, such as students, teachers, and the head of the school, each with specific permissions and responsibilities.

**2. Purpose** The primary purpose of this system is to streamline the management of school operations, ensuring efficiency in:

* Student enrollment and course registration.
* Teacher assignment and salary distribution.
* Financial tracking of school revenues and expenses.
* Administrative control over courses, buildings, and personnel.

**3. Design** The system follows an object-oriented approach, with the following key classes:

* Student: Handles student-related operations such as course registration, payment confirmation, and grade management.
* Teacher: Manages teacher-related operations, including course assignments, student grade modifications, and salary processing.
* FinancialManagement: Tracks revenue, expenses, and calculates profit.
* SchoolManagement: Serves as the main controller, handling user authentication and providing access to various functionalities based on user roles.

**4. Functionality** The system provides functionalities tailored to different users:

* **Students can:**
  + Register for courses.
  + View their personal information and grades.
  + Confirm payment of fees.
  + Change their password.
* **Teachers can:**
  + View assigned courses and students enrolled.
  + Modify student grades.
  + Receive salary payments.
  + Display personal information.
* **Head of School can:**
  + View and manage students and teachers.
  + Assign courses to teachers.
  + Oversee financial transactions.
  + Manage school buildings and classrooms.
  + Change their login credentials.

**5. User Permissions and Restrictions**

* **Students** cannot:
  + Modify course assignments.
  + Modify their grades.
  + Access financial records.
* **Teachers** cannot:
  + Add or remove students and teachers.
  + Modify financial transactions beyond their own salary withdrawal.
* **Head of School** has the highest level of access and can:
  + Add and remove students and teachers.
  + Assign courses.
  + Modify financial details.

**6. Conclusion** This Java-based School Management System efficiently organizes school administrative tasks. By implementing role-based access and financial tracking, it ensures a structured and controlled school environment while simplifying key operations.