Education System – Detailed Requirements Document

₩ Multi-Role User Login System

User Roles Managed by Admin

The Admin has the authority to create and manage the following user roles:

- Teacher
- Stationery Person
- Medical Person

Each user, upon creation, receives unique login credentials and access rights tailored to their designated role.

Role-Based Access Control (RBAC)

1. User Roles & Permissions

Teacher Role

- Class Assignment: Each teacher is assigned to a specific class by the Admin. A teacher cannot access any data or features outside their assigned class.
- Admission Form Access: Teachers can only fill out the student admission form but cannot edit or delete any previously submitted admissions.
- Marks Entry: Teachers can add and edit marks only for students in their assigned class. Deleting marks is not permitted.
- Attendance Management:
 - Add daily attendance for students in their class.
 - View attendance history of each student in their class.
- Access Restrictions: Teachers cannot view, edit, or manage any data related to other classes. For cross-class operations, they must request Admin assistance.

Admin Role

• Teacher Management:

- Add new teachers.
- Assign specific classes to each teacher.

• Admission Management:

o Add, edit, and delete student admission details.

• Marks Management:

o Add, edit, and delete marks for any student in any class.

Attendance Management:

View, add, and manage attendance records for all classes.

Document Generation:

 Generate and download Bonafide Certificates, Marksheets, and Fee Receipts.

• Student Promotion:

- Promote students to the next class.
- o Retain all historical academic and attendance data.

Class & Subject Management:

- o Add classes from LKG to 12th.
- Assign subjects to each class.

• Fee Management:

- View total collections and pending fees.
- o Create and manage class-wise fee structures.

• Special Roles:

 Create and manage separate login credentials and dashboards for Stationary, Accountant and Medical staff.

Admission Form Fields (Student Registration)

- Image Upload: Max file size: 100KB.
- Registration Number: IPSEDU001..IPSEDU002

Basic Info:

- o Full Name
- Date of Birth
- Gender
- Residential Type: Residential / Non-Residential
- Class (LKG 12th). For classes 11 and 12, specify Collages: APC or USA.
- o Medium: Marathi, Semi English

• Parent Details:

- Parent/Guardian Name
- o Phone Number

Identity & Location:

- o Aadhaar Card Number
- Caste
- Address

- Health Info:
 - o Blood Group
 - Medical Information (optional)
- Admission Details:
 - o Admission Date
- Fee Structure:
 - Tuition Fee (Input)
 - Expense Fee (input) (9000/ 7000)

Academic Records Management

- Class-wise Structure: Organized based on classes.
- Student List: Displayed after class selection.
- Marks Entry: Admin and assigned class teacher can add and edit marks.
- Marksheet Generation: Only Admin can generate and download marksheets.

📆 Attendance Management

- Daily Entry: Teachers mark attendance daily.
- History Access: Teachers can view student attendance history.
- Admin Access: Admin can view and edit all attendance records.

Document Management

- Documents are generated class-wise.
- Admin Capabilities:
 - o Download Bonafide Certificates
 - Download Marksheet
 - Download Fee Receipt

💰 Fee Structure & Management

Residential Students

- New Admission: ₹9,000 expense fund.
- **Promoted Students:** ₹7,000 expense fund.
- **Discount:** ₹2,000 discount if full fee is paid on time.

Class Range	1st Installment	2nd Installment	Total Fee
1st – 4th	₹27,000	₹27,000	₹54,000 +9000
5th – 7th	₹28,000	₹28,000	₹56,000
8th – 10th	₹29,000	₹29,000	₹58,000
11th – 12th (APC)	₹38,000	₹38,000	₹76,000
11th – 12th (USA)	₹61,000	₹60,000	₹1,21,000

Non-Residential Students

Class Range	1st Installment	2nd Installment	Total Fee
LKG – UKG	₹3,750	₹3,750	₹7,500
1st – 4th	₹4,250	₹4,250	₹8,500
5th – 7th	₹4,750	₹4,750	₹9,500
8th – 10th	₹7,000	₹7,000	₹14,000

Fee Features

- Residential/Non-Residential Toggle
- Class-wise and student-wise view
- Total Fees vs. Pending Fees display
- Download reports: Monthly fee dues

Stationery Role (Residential Only)

- Class-wise division.
- One Time Expense Of Hostel: Custom Expense
- Common Expenses: Admin adds items; total shared among students.
- Individual Expenses: Specific per-student entries.
- Expense Fund:
 - ₹9000 (new) / ₹7,000 (promoted)
- Negative Balance: Reflected in due fees if exceeded.
- **Download Option:** Monthly reports.



Medical Role (Residential Only)

- Class-wise division.
- Per-Student Entry:
 - o Date
 - o Doctor Fee 100
 - o Medical Fee 100
 - Total
- **Fund Usage:** Same as Stationery.
- Negative Balance: Reflected in due fees if exceeded.
- Downloadable Reports: Combined expense overview.

Admin Dashboard Features

Summary Metrics

Metric	Description
★ Total Students	Total enrolled students (e.g., 1325)
Notal Teachers	Total number of active teachers
Total Fees Collected	Total for academic year
Pending Fees	Outstanding amount
Selective Classes	Number of ongoing classes
17 Attendance %	Current month average
Health Cases	Logged incidents this month
Stationary Expenses	Used expense amount

Charts & Visual Insights

- Monthly Fee Collection Chart (bar/line)
- Attendance Trends by class
- Top Performers by exam, class-wise or overall

Quick Action Buttons

- Add Student / Teacher
- Collect Fees
- Generate Bonafide

- Download Reports
- Student Search

Notifications Panel

- Bonafide pending
- Term fee pending alerts
- Low attendance alerts
- New results, medical entries

Activity Feed

• Logs of recent updates (marks, expenses, etc.)

Today's Schedule

- Timetable and exams
- Birthdays

Fee Defaulter Widget

• Class, amount, phone number

Class-wise Strength Table

Class Boys Girls Total

1A 15 14 29

Quick Reports Panel

• Export data: Fees, Attendance, Marks, Student details

📘 Exam Structure & Grading

- Admin Capabilities:
 - o Define exam types (e.g., Unit Test, Term 1, Annual)
 - o Set maximum marks per subject
 - Auto-calculate grades
 - o Admin Will Add Grading Logic Below is a dummy Example
- Grading Logic Example:
 - o 90-100: A+

- o 80-89: A
- o 70-79: B
- o 60-69: C
- o 50-59: D
- o <35: F

Student Promotion Logic

- Based on:
 - Final exam pass/fail
 - o Attendance ≥ 75%
- Promotion Button: "Promote All Eligible Students"
- Manual Override: For special cases

📑 Document Branding & Export

- All documents (marksheets, receipts, bonafides) should include:
 - Official School Logo
 - o Principal Signature Space
 - o Watermark/Header

Monthly Reports

- Admin Generates:
 - Monthly Marks Report
 - Expense Report (Stationary & Medical)
 - o Attendance Report
 - Due Fee Report
- Format: Excel/PDF
- Example Report (Fee):
 - o Name, Class, Paid, Pending
- Example (Medical):
 - o Total expenses per student, balance left

Subjects:

```
LKG & UKG —-1.english
               2. marathi
               3.kannada
               4.conversation
                5.rhythms
                6.maths
                7.drawing
1st to 5th —-1. Marathi
             2.english
             3.kannada
             4.maths
             5.evs
             6.drawing
             7.computer
             8. Physical education
6th to 10th ———1.marathi [marathi medium]
               2.english
               3.kannada
                4.maths
                5.sciences
                6.social sciences
                7 gk
                8. Drawing
                9. Physical education
                10 computer
```

6th to 10th —---1.marathi [semi english medium]

2.english 3.hindi

- 4.maths
- 5.sciences
- 6.social sciences
- 7 gk
- 8. Drawing
- 9. Physical education
- 10 computer
- 11th and 12th std —---1.marathi [APC]
 - 2.hindi
 - 3.english
 - 4. Sahakar
 - 5. History
 - 6. Gk
 - 7.maths
 - 8. Arthashastra
- 11th and 12th —1. Physics [USA]
 - 2.chemistry
 - 3.biology
 - 4. Maths
 - 5.english
 - 6. IT
 - 7.G.K

Mark system

1.Unit test one=25	passing = 9
2.Unit test Two=25	passing=9
3.Terminal=40	passing=13
4Unit test Three=25 —	passing=9
5.Unit test Four=25	passing=9
6.Annual =40	passing =13

Admission form