

# **SIH25103 - ERP-based Integrated Student Management system**

## **Features:**

1. Role-based login for Student, Faculty, HOD, and Admin.
2. Centralized student database shared by all modules.
3. Authorized users can view and update student profiles.
4. Faculty enter marks and attendance; students view them.
5. System logs important user actions for audit.
6. Fee tracking with digital receipt generation.
7. Separate dashboards for each user role.
8. Library book issue, return, and history tracking.
9. Student chatbot for answering common queries.
10. Search student records using basic filters.
11. Download reports in PDF or Excel.
12. Dashboards show simple charts.

<b>PAGES PER USER LOGIN: URL 1: /student</b>  1. Login / Forgot Password 2. Student Dashboard (attendance risk alert) 3. My Profile 4. Academic Records 5. Attendance 6. Fees & Payments status and Receipts generation 7. Hostel 8. Library 9. Notifications 10. Chat Assistant 11. Logout	<b>URL 2: /portal</b> <b>Common</b> 1. Login 2. Role Selection (Faculty / HOD / Admin) <b>Faculty Pages</b> 1. Faculty Dashboard (timetable) 2. Attendance Entry 3. Marks Entry (upload option or entry) 4. Student Lookup (as class teacher) 5. Notifications
	<b>HOD Pages</b> 1. HOD Dashboard 2. Department Overview 3. Faculty Analytics 4. Student Analytics 5. Approvals 6. Notifications
	<b>Admin Pages</b> 1. Admin Dashboard 2. Admissions 3. Student Records 4. Fees & Payments 5. Hostel Management 6. Library Management 7. User & Roles 8. Audit Logs

## URL 1: /student

<b>ENTRY FLOW</b> <code>/student</code> → Login → Authentication → Student Dashboard overview (name, year, semester, class teacher name, attendance risk alert )	<b>STUDENT DASHBOARD</b> Navigation bar( └─ My Profile └─ Academic Records └─ Attendance └─ Fees & Payments └─ Receipts └─ Hostel └─ Library └─ Notifications └─ Chat Assistant └─ Logout
<b>My Profile</b> Dashboard → My Profile └─ View Details └─ Request Update └─ Submit Request └─ Admin Approval └─ Central DB Update	<b>Academic Records</b> Dashboard → Academic Records └─ Semester Selection and year selection └─ Marks View └─ GPA / CGPA View └─ Download Report
<b>Attendance</b> Dashboard → Attendance └─ Subject-wise View └─ Attendance %	<b>Fees &amp; Payments</b> Dashboard → Fees & Payments └─ Fee Structure └─ Due Amount └─ Pay Fee └─ Payment Gateway └─ AI Validation └─ Receipt Generated └─ Dashboard Updated → Receipts └─ Receipt List └─ View Receipt └─ Download PDF └─ Back to Dashboard

<b>Library</b>	<b>Hostel</b>
Dashboard → Library ├─ Issued Books ├─ Due Dates └─ Back to Dashboard	Dashboard → Hostel ├─ Allocation Details ├─ Room Info ├─ Fee Status └─ Back to Dashboard
<b>Notifications</b>	<b>Chat Assistant</b>
Dashboard → Notifications ├─ Fee Alerts ├─ Attendance Alerts ├─ Library Alerts └─ Back to Dashboard	Dashboard → Chat Assistant ├─ Ask Question ├─ Context-aware Answer └─ Back to Dashboard

URL 2: /portal

## ENTRY FLOW

/portal

→ Login

→ Role Selection

├─ Faculty

├─ HOD

└─ Admin

## FACULTY DASHBOARD

<b>Faculty Dashboard</b>	<b>Attendance Entry</b>
─ Faculty Dashboard overview (faculty details, class teacher for which class, timetable) ├─ Attendance Entry ├─ Marks Entry(upload doc or entry) ├─ Student Lookup (as class teacher) ├─ Notifications ➤ Send/ received mails stores └─ Logout	→ Attendance Entry ├─ Select Class ├─ Select Date ├─ Mark Attendance ├─ Submit  ─ → Central DB Update  ─ → Student Dashboard Updated  ─ → HOD Analytics Updated └─ Back to Dashboard

<p>Marks Entry</p> <p>Dashboard</p> <p>→ Marks Entry</p> <ul style="list-style-type: none"> <li> — Select Subject , type of exam</li> <li> — Enter Marks or upload doc</li> <li> — Submit</li> <li>  → Central DB Update</li> <li>  - download by filters</li> </ul> <p>└ Back to Dashboard</p>	<p>Student Lookup</p> <p>Dashboard</p> <p>→ Student Lookup</p> <ul style="list-style-type: none"> <li> — Search Student</li> <li> — View Profile (Read-only)</li> </ul> <p>((rollno, name, emailId, phno, mid1, mid2 marks, attendance %, parents phno))</p> <p>└ Back to Dashboard</p>
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## HOD DASHBOARD

<p>HOD Dashboard</p> <ul style="list-style-type: none"> <li> — Department Overview</li> <li> — Student lookup</li> <li> — Faculty lookup</li> <li> — Faculty work distribution</li> <li> — Approvals</li> <li> — Fee Compliance</li> <li> — Notifications</li> <li>└ Logout</li> </ul>	<p>Department Overview</p> <ul style="list-style-type: none"> <li>  -Current semester summary (Semester comparison / filter)</li> <li>  -Fee collection status (visualize)</li> <li>  -Year-wise distribution</li> </ul> <p>→ Click Metric</p> <p>→ Redirect to Student Analytics (filtered)</p>
<p>Dashboard</p> <p>→ Student Lookup</p> <ul style="list-style-type: none"> <li> — Search Student</li> <li> — View Profile (Read-only)</li> </ul> <p>((rollno, name, emailId, phno, mid1, mid2 marks, attendance %, parents phno))</p> <p>  - download by filters</p> <p>└ Back to Dashboard</p>	<p>Faculty work distribution</p> <ul style="list-style-type: none"> <li>➤ Timetable</li> <li>➤ Edit timetable</li> </ul>
<p>→ Fee Compliance</p> <ul style="list-style-type: none"> <li> — Paid vs Pending (year, rollno, name, fee,paid,pending)</li> </ul>	<p>→ Faculty lookup</p> <ul style="list-style-type: none"> <li> —View Profile (Read-only)</li> </ul> <p>((rollno, name, emailId, phno, subject teaches, attendance %))</p> <p>└ Back to Dashboard</p>
<p>Notifications</p> <p>➤ Send/ received mails stores</p>	

## Admin Dashboard

<p>Admin Dashboard</p> <ul style="list-style-type: none"><li>  - students pursing</li><li>  - fee status (paid,pending)</li></ul>	
<p><b>Admissions</b></p> <ul style="list-style-type: none"><li>  - Filter: Pending / Approved / Rejected</li><li>  - Search by Application ID / Name</li><li>  - Click Row → <b>Admission Detail</b></li></ul> <p><b>Admission Detail</b></p> <ul style="list-style-type: none"><li>  - View Form Data</li><li>  - View Uploaded Docs</li><li>  - View AI Validation Summary</li><li>  - Action:<ul style="list-style-type: none"><li>  - Approve → Create Student Record</li><li>  - Reject → Status Update</li><li>  - Send Back for Correction</li></ul></li><li>  - Back → Admission List</li></ul>	<p><b>Student Records</b></p> <ul style="list-style-type: none"><li>  - Search (Roll / Name)</li><li>  - Filter (Dept / Year / Status)</li><li>  - Click Student → <b>Student Profile</b></li></ul> <p><b>Student Profile</b></p> <ul style="list-style-type: none"><li>  - Personal Info (View/Edit limited)</li><li>  - Academics<ul style="list-style-type: none"><li>  - Attendance, Marks (Read-only for Admin)</li></ul></li><li>  - Fees<ul style="list-style-type: none"><li>  - View Transactions → Fees &amp; Payments</li></ul></li><li>  - Hostel<ul style="list-style-type: none"><li>  - View Allocation → Hostel Management</li></ul></li><li>  - Library<ul style="list-style-type: none"><li>  - Borrow History → Library Management</li></ul></li><li>  - Risk &amp; Alerts (AI)</li><li>  - Actions:<ul style="list-style-type: none"><li>  - Suspend</li><li>  - Reactivate</li><li>  - Transfer Dept</li></ul></li></ul>
<p><b>Fees &amp; Payments</b></p> <ul style="list-style-type: none"><li>  - Fee Structure Setup</li><li>  - Transactions<ul style="list-style-type: none"><li>  - Filter by Date / Status</li><li>  - Click Transaction</li><li>  - View Receipt(download)</li></ul></li><li>  - Pending Fees<ul style="list-style-type: none"><li>  - Student List</li><li>  - Select Student</li><li>  - Send Reminder</li></ul></li><li>  - Reports</li></ul>	<p><b>Hostel Management</b></p> <ul style="list-style-type: none"><li>  - Hostel Overview<ul style="list-style-type: none"><li>  - View Blocks / Capacity</li></ul></li><li>  - Allocation List<ul style="list-style-type: none"><li>  - Click Student → Student Profile</li></ul></li><li>  - Allocate Room<ul style="list-style-type: none"><li>  - Select Student</li><li>  - Select Room</li><li>  - Confirm</li><li>  - Deallocate Room</li></ul></li></ul>

<p><b>Library Management</b></p> <ul style="list-style-type: none"> <li>└ Book Catalog</li> <li>  └ View Availability</li> <li>└ Issue Book</li> <li>  └ Select Student</li> <li>  └ Select Book</li> <li>  └ Issue</li> <li>└ Return Book</li> <li>└ Overdue List</li> <li>  └ Click Student → Student Profile</li> <li>└ Usage Analytics (AI)</li> </ul>	<p><b>User &amp; Roles</b></p> <ul style="list-style-type: none"> <li>└ User List</li> <li>  └ Click User → User Detail</li> <li>└ Create User</li> <li>  └ Enter Details</li> <li>  └ Assign Role</li> <li>  └ Save</li> <li>└ Role Permissions</li> <li>  └ View / Edit Access Matrix</li> <li>└ Disable User</li> </ul>
<p><b>Audit Logs</b></p> <ul style="list-style-type: none"> <li>└ Filter by Module / User / Date</li> <li>└ View Log Entry</li> <li>└ Export Logs</li> </ul>	