

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.

PAGES PER USER LOGIN: URL 1: /student <ol style="list-style-type: none">1. Login / Forgot Password2. Student Dashboard (attendance risk alert)3. My Profile4. Academic Records5. Attendance6. Fees & Payments status and Receipts generation7. Hostel8. Library9. Notifications10. Chat Assistant11. Logout	URL 2: /portal Common <ol style="list-style-type: none">1. Login2. Role Selection (Faculty / HOD / Admin) Faculty Pages <ol style="list-style-type: none">1. Faculty Dashboard (timetable)2. Attendance Entry3. Marks Entry (upload option or entry)4. Student Lookup (as class teacher)5. Notifications
	HOD Pages <ol style="list-style-type: none">1. HOD Dashboard2. Department Overview3. Faculty Analytics4. Student Analytics5. Approvals6. Notifications
	Admin Pages <ol style="list-style-type: none">1. Admin Dashboard2. Admissions3. Student Records4. Fees & Payments5. Hostel Management6. Library Management7. User & Roles8. Audit Logs

URL 1: /student

ENTRY FLOW	STUDENT DASHBOARD
<p>/student</p> <ul style="list-style-type: none">→ Login→ Authentication<ul style="list-style-type: none">→ Student Dashboard overview (name, year, semester, class teacher name, attendance risk alert)	<p>Navigation bar(</p> <ul style="list-style-type: none">└— My Profile└— Academic Records└— Attendance└— Fees & Payments└— Receipts└— Hostel└— Library└— Notifications└— Chat Assistant└— Logout
My Profile	Academic Records
<p>Dashboard</p> <ul style="list-style-type: none">→ My Profile<ul style="list-style-type: none">└— View Details└— Request Update<ul style="list-style-type: none">→ Submit Request→ Admin Approval→ Central DB Update	<p>Dashboard</p> <ul style="list-style-type: none">→ Academic Records<ul style="list-style-type: none">└— Semester Selection and year selection└— Marks View└— GPA / CGPA View└— Download Report
Attendance	Fees & Payments
<p>Dashboard</p> <ul style="list-style-type: none">→ Attendance<ul style="list-style-type: none">└— Subject-wise View└— Attendance %	<p>Dashboard</p> <ul style="list-style-type: none">→ Fees & Payments<ul style="list-style-type: none">└— Fee Structure└— Due Amount└— Pay Fee<ul style="list-style-type: none">→ Payment Gateway→ AI Validation→ Receipt Generated→ Dashboard Updated→ Receipts<ul style="list-style-type: none">└— Receipt List└— View Receipt└— Download PDF└— Back to Dashboard

Library Dashboard → Library └— Issued Books └— Due Dates └— Back to Dashboard	Hostel Dashboard → Hostel └— Allocation Details └— Room Info └— Fee Status └— Back to Dashboard
Notifications Dashboard → Notifications └— Fee Alerts └— Attendance Alerts └— Library Alerts └— Back to Dashboard	Chat Assistant 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

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

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

Admin Dashboard

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

<div><div>Library Management</div><div><div>└─ Book Catalog</div><div><div> └─ View Availability</div></div></div><div><div>└─ Issue Book</div><div><div> └─ Select Student</div><div><div> └─ Select Book</div><div><div> └─ Issue</div></div></div></div><div><div>└─ Return Book</div><div>└─ Overdue List</div><div><div> └─ Click Student → Student Profile</div><div>└─ Usage Analytics (AI)</div></div></div></div></div>	<div><div>User & Roles</div><div><div>└─ User List</div><div><div> └─ Click User → User Detail</div></div></div><div><div>└─ Create User</div><div><div> └─ Enter Details</div><div><div> └─ Assign Role</div><div><div> └─ Save</div></div></div></div><div><div>└─ Role Permissions</div><div><div> └─ View / Edit Access Matrix</div><div>└─ Disable User</div></div></div></div></div>
<div><div>Audit Logs</div><div><div>└─ Filter by Module / User / Date</div><div>└─ View Log Entry</div><div>└─ Export Logs</div></div></div>	