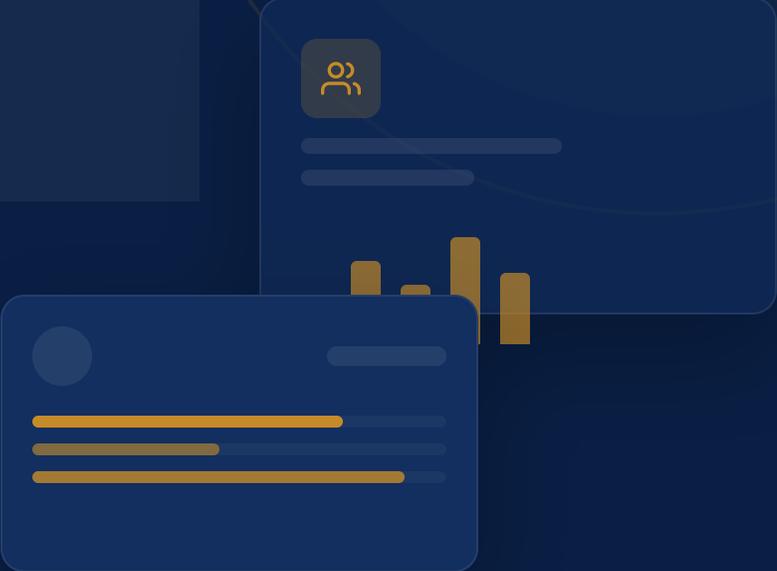
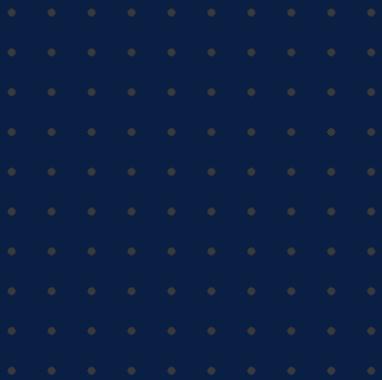


A PRODUCT OF ECHO SYSTEMS NETWORK LTD

# eSchool

The Complete Digital Operating System

Cloud-based, multi-tenant, multi-user



## ABOUT US

# Echo Systems Network Ltd

A Nigerian technology company focused on **digital transformation solutions** for government institutions, educational institutions, and enterprise organizations.

We deliver secure, scalable, and cost-effective automation platforms specifically tailored for the unique challenges of the Nigerian educational ecosystem.



### Tertiary Education

Specialized Management Platforms



### Government Solutions

Public Sector Digitalization



### Enterprise Systems

Corporate Process Automation



## INTRODUCING ESCHOOL

# The Complete Digital Operating System

eSchool is a fully integrated **School Management System** built to automate and digitize the entire administrative and academic lifecycle of tertiary institutions.

## End-to-End Automation

From admission onboarding to graduation clearance — eSchool manages everything seamlessly in one unified platform.

 Fully Integrated  Secure  Scalable

## INSTITUTIONS WE SERVE



Universities



Polytechnics



Colleges of Education



Monotechnics



Professional &amp; Specialized Institutions

# Common Challenges We Address

Many tertiary institutions struggle with fragmented manual processes that hinder growth and efficiency.



01  
**Manual Admission Processing**



02  
**Poor Carry-over Tracking**



03  
**Complex Spill-over Management**



04  
**Errors in GPA Computation**



05  
**Revenue Leakages**



06  
**Inefficient Add & Drop Processes**



07  
**Delays in Academic Approvals**



08  
**Fragmented Systems**



The Solution: eSchool **centralizes and automates** all these processes within one intelligent ecosystem.



## Core Modules of eSchool

A unified digital ecosystem comprising 8 powerful, integrated modules designed to automate the entire academic lifecycle.

01



### Admission Management

Seamless application portals, screening, merit lists, and automated admission letters.

02



### Student Onboarding & Reg.

Matric generation, course registration, add & drop workflow, and faculty validation.

03



### Carry Over Management

Auto-detection of failed courses, assignment to next session, and GPA recalculation.

04



### Spill Over Management

Handles session extensions, course revalidation, and academic standing updates.

05



### Academic & Results

Result upload workflows, moderation, CGPA computation, and transcript data.

06



### Examination Management

Secure CBT platform with question banks, auto-grading, and offline exam logistics.

07



### Fees & Revenue

Configurable fees, installment plans, online payments, and financial reconciliation.

08



### Role-Based Access

Secure, granular access control for students, lecturers, bursary, and management.



01

## Admission Management

A comprehensive suite to automate the entire intake process, from application submission to final enrollment.

STATUS: ACTIVE

### Key Features & Capabilities



#### Online Application Portal

Seamless web-based interface for prospective students to purchase forms and submit applications.



#### Screening & Shortlisting

Automated logic to screen candidates based on O-Level results, JAMB scores, and custom criteria.



#### Automated Merit Lists

Generation of merit, catchment, and supplementary lists based on weighted scoring algorithms.



#### Admission Approval Workflow

Digital routing of admission lists for approval by HODs, Deans, and the Admissions Board.



#### Auto-Generated Letters

Instant generation of personalized provisional admission letters upon successful clearance.



#### Bulk Processing

Efficient tools for processing thousands of applications simultaneously to meet tight deadlines.



#### Faculty Filtering

Dynamic sorting and filtering of applicants by Faculty, Department, and Programme of study.

## Student Onboarding & Registration



### Auto-Matric Generation

Intelligent algorithm generates unique matriculation numbers based on session, department, and mode of entry.



### Course Registration

Semester-based registration with pre-loaded core courses and elective options based on curriculum.



### Session Management

Robust academic calendar controls defining semester start/end dates and registration deadlines.



### Add & Drop Manager

Structured window for course modification with configurable deadlines and academic load validation.



### Fee Auto-Adjustment

System automatically calculates and applies financial implications for added or dropped credit units.



### Audit Trail

Complete history of all registration changes for compliance, showing who changed what and when.

### ADD & DROP APPROVAL WORKFLOW



INITIATION

**Student**

Initiates Add/Drop request via portal within deadline



LEVEL 1 REVIEW

**Course Advisor**

Reviews academic load & course relevance



LEVEL 2 APPROVAL

**H.O.D**

Approves departmental changes



FINAL VALIDATION

**Faculty Officer**

Validates against faculty rules & updates record



## Carry Over Management

A robust, intelligent system that eliminates manual errors by automatically tracking student course deficiencies across academic sessions.

★ FLAGSHIP FEATURE

### Intelligent Tracking Capabilities



#### Automatic Identification

System automatically flags failed courses (F grades) immediately after result computation.



#### Auto-Assignment

Automatically populates failed courses into the student's registration form for the next relevant session.



#### Multi-Session Tracking

Persistently tracks outstanding courses across multiple years until they are cleared.



#### GPA Recalculation

Automatically updates CGPA and academic standing instantly when a carry-over course is passed.



#### Department Monitoring

Dashboards for HODs to monitor students with heavy carry-over loads and advise accordingly.



#### Management Reporting

Generates detailed reports on failure rates and carry-over trends for academic planning.



NO MANUAL TRACKING



NO EXCEL SHEETS



NO LOST RECORDS



04

## Spill Over Management

Intelligent system designed to seamlessly handle students exceeding normal program duration, whether for 1-year spill-over or extended cases.

STATUS: ACTIVE

### Key Features & Capabilities



#### Automatic Detection

System automatically identifies students who have exceeded the normal duration of their academic program.



#### Session Extension

Configurable settings to extend academic sessions, update student status, and manage 1-year spill-over cases.



#### Course Revalidation

Streamlined workflow for revalidating outstanding or outdated courses for returning spill-over students.



#### Financial Reconciliation

Automated financial status checks and fee adjustments specific to spill-over students to prevent revenue loss.



#### Academic Standing Updates

Automatic reclassification of academic standing (e.g., Spill Over I, Spill Over II) based on performance.



#### Progress Monitoring

Dedicated dashboard for monitoring the academic progress of at-risk students to ensure eventual graduation.



05

## Academic & Results Management

End-to-end automation of the academic lifecycle, ensuring error-free result computation, approval, and archiving.

STATUS: ACTIVE

### Core Processing Capabilities



#### Result Upload Workflow

Structured flow: Lecturer Upload → Moderation → HOD Approval → Faculty Approval → Senate Approval.



#### Auto CGPA Computation

Instant, error-free calculation of GPA & CGPA based on configurable institutional grading systems.



#### Academic Standing Updates

Automatic classification of students into Good Standing, Probation, or Withdrawal based on performance.



#### Graduation Eligibility

System-driven checks for total credit units, compulsory courses, and project completion for clearance.



#### Transcript Data Repository

Centralized, secure storage of all academic records enabling rapid transcript generation.



#### Continuous Assessment

Flexible entry modules for CA scores with automated weightage calculation against exam scores.



#### Post-Correction Updates

Automatic adjustment of CGPA and standing following carry-over improvements or approved result corrections.



## Online Exams (CBT)

Computer-Based Testing Platform



Comprehensive Question Bank Management



Randomized Questions & Answer Options



Strictly Timed & Auto-Submitted Exams



Instant Auto-grading & Result Processing



Secure Browser Environment (Anti-Cheating)

&



## Offline Exams

Logistics & Physical Examination



Automated Exam Timetable Generation



Smart Hall Allocation & Seat Mapping



Photo Attendance Sheets Generation



Bulk Result Upload & Moderation



Docket & Exam Pass Generation



07

## Fees & Revenue Management

A secure financial engine that ensures transparent fee collection, automated reconciliation, and comprehensive revenue tracking for all student activities.

 ZERO REVENUE LEAKAGES

STATUS: ACTIVE

## Financial Capabilities



### Configurable Fee Structure

Flexible setup for school fees based on Department, Level, Programme, or Indigene/Non-indigene status.



### Payment Options

Support for online gateway payments, offline bank branches, and structured installment payment plans.



### Revenue Dashboard

Real-time analytics of expected vs. actual revenue, daily collection trends, and outstanding debts.



### Carry-Over Fee Tracking

Automated identification and billing for carry-over course registration fees distinct from main tuition.



### Spill-Over Handling

Specific financial status reconciliation and fee generation for students extending their program duration.



### Automated Receipts

Instant generation of digital receipts upon payment confirmation with QR code verification.



### Add/Drop Adjustments

Automatic calculation and reconciliation of fee differences during the add & drop course window.



08

## Role-Based Access Control

A secure, hierarchical access system ensuring every stakeholder sees only what they need to see, protecting data integrity.

STATUS: SECURE

## User Roles & Permissions



### Students

Portal for registration, course forms, results checking, and fee payments.



### Lecturers

Upload results, manage attendance, and view assigned course loads.



### Admission Officers

Manage applications, screening, shortlisting, and admission lists.



### Faculty Officers

Validate course forms, approve add/drop requests, and monitor students.



### Heads of Department (HODs)

Approve results, assign courses, and oversee departmental performance.



### Bursar / Finance

Track revenue, reconcile fees, and manage financial reporting.



### MIS / ICT Unit

System configuration, user management, and technical oversight.



### Registrar / Admin

Academic records, transcript generation, and institutional policy.



### Executive Management

High-level dashboards for strategic decision-making and oversight.



### System Administrator

Full global access for maintenance, backups, and critical settings.

 Custom Dashboard Feature: Each user role lands on a unique, purpose-built dashboard displaying only relevant widgets, stats, and tools.

# Overview Dashboard

Real-time institutional performance metrics and academic insights.

● SYSTEM LIVE

TOTAL ENROLLMENT 

**24,850**

↑ 12% vs last session

REVENUE (YTD) 

**₦458.2M**

↑ 8.5% collection rate

CARRY-OVER / SPILL 

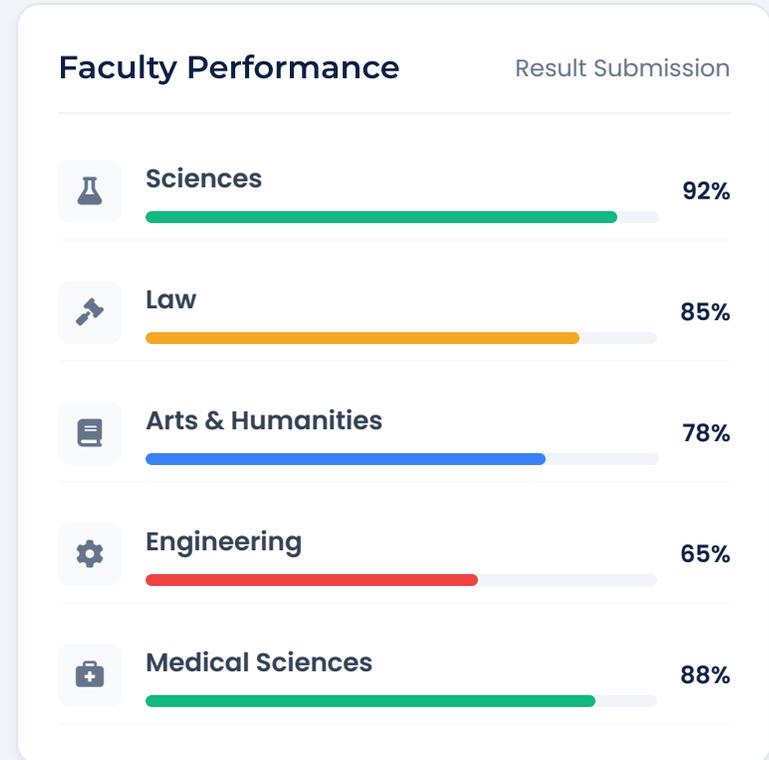
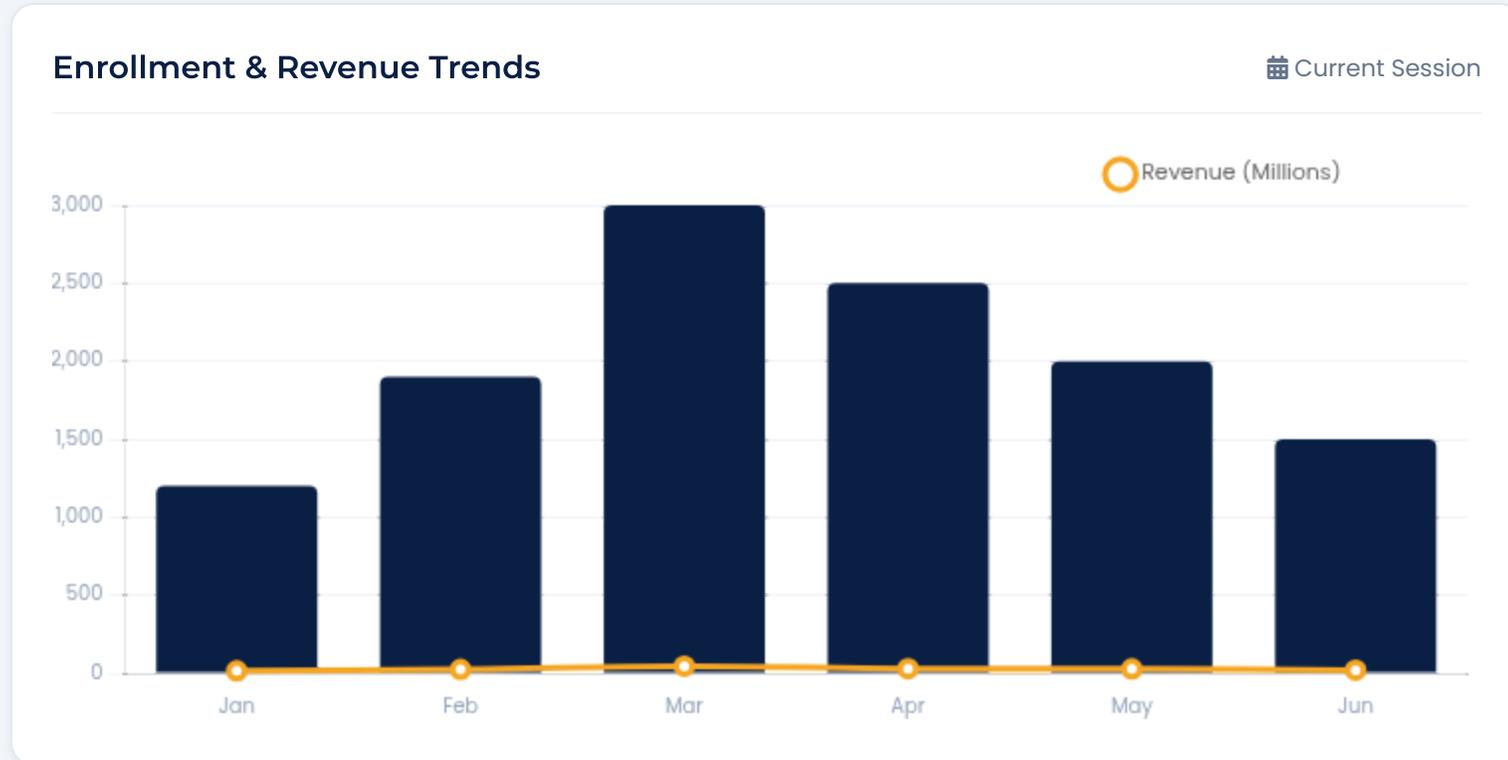
**1,204**

↓ 5% reduction

ACTIVE STAFF 

**845**

✓ 98% Attendance



# Security & Compliance Architecture

Built with a defense-in-depth approach to ensure data integrity, confidentiality, and regulatory compliance.



## Role-Based Access Control

Strict hierarchy ensuring users only access modules and data pertinent to their role (Student, Lecturer, HOD, Admin).



## Comprehensive Audit Logs

Detailed, immutable logs of all system activities, tracking who did what and when for forensic accountability.



## End-to-End Encryption

Data is encrypted at rest using AES-256 and in transit via TLS 1.3 protocols to prevent unauthorized interception.



## NDPR Compliant

Fully aligned with the Nigeria Data Protection Regulation standards for handling personal data of students and staff.



## Backup & Disaster Recovery

Automated daily backups to geo-redundant servers ensuring zero data loss and rapid restoration capabilities.



## Multi-Factor Authentication

Optional additional security layer requiring OTP verification for sensitive administrative and financial actions.

# Flexible Deployment Options

Choose the infrastructure model that best fits your institution's policy, budget, and technical capacity.



## Cloud Deployment

Hosted on secure, high-availability cloud servers (AWS/Azure). Zero hardware investment required by the institution.

BEST FOR SPEED & SCALABILITY



## On-Premise Deployment

Installed directly on the institution's local servers within their data center. Complete control over data and infrastructure.

BEST FOR DATA SOVEREIGNTY



## Hybrid Model

Critical data remains on local servers while web-facing portals (Application, Results) run on the cloud for accessibility.

BEST FOR RELIABILITY & CONTROL



## Multi-Campus Architecture

Unified system managing multiple campus locations under one central database with location-specific permissions.

BEST FOR DISTRIBUTED INSTITUTIONS

“ Digital transformation does not have to be expensive — eSchool makes it accessible.



### Unified Platform

Eliminates the cost of maintaining multiple fragmented systems. One login, one database, one subscription covers everything.



### Modular Subscription

Flexible pricing model where you pay only for the modules you need. Start small and scale up as your institution grows.



### Minimal Hardware

Cloud options remove the need for expensive on-premise servers, cooling systems, and 24/7 power infrastructure.



### Scalable Pricing

Cost structure that adapts to your student population size. Ideal for both large universities and specialized colleges.

## Where You Save



Manual Paperwork & Printing



Staff Admin Inefficiencies



Revenue Leakages & Fraud



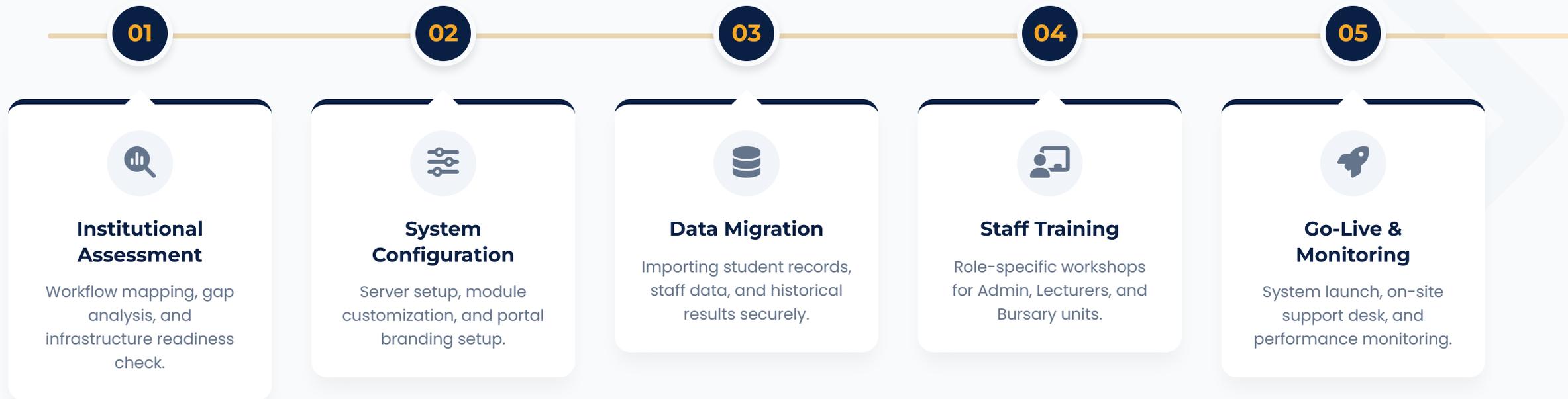
Data Reconciliation Efforts

RESULT

**Lower Long-Term Operational Cost**

# Phased Implementation Strategy

A structured, low-risk approach to digital transformation ensuring seamless adoption and minimal disruption to academic activities.



## Measurable Impact & ROI

eSchool delivers immediate operational improvements, transforming how your institution functions from day one.



### 80%

REDUCTION

### Administrative Efficiency

- ✓ Drastic reduction in manual file processing
- ✓ Automated approval workflows across units
- ✓ Faster turnaround for admissions & clearance



### 100%

ACCURACY

### Academic Accuracy

- ✓ Error-free CGPA & GPA computation
- ✓ Intelligent carry-over course assignment
- ✓ Automated spill-over detection & handling



### Real-Time

VISIBILITY

### Financial Transparency

- ✓ Zero revenue leakages via secure gateways
- ✓ Automated fee reconciliation & reporting
- ✓ Dynamic financial adjustments for Add/Drop



### 24/7

SELF-SERVICE

### Student Experience

- ✓ Comprehensive self-service student portal
- ✓ Real-time academic results & status updates
- ✓ Transparent progression tracking for students

## Built For Every Institution Type

eSchool's scalable architecture adapts to the unique administrative workflows of diverse tertiary institutions across Nigeria.



### Federal Universities

LARGE SCALE & COMPLEX



### State Universities

MULTI-CAMPUS SUPPORT



### Private Universities

PREMIUM ADMINISTRATION



### Polytechnics

TECHNICAL EDUCATION



### Colleges of Education

TEACHER TRAINING



### Health & Nursing Inst.

MEDICAL CERTIFICATION



### Specialized Institutes

FOCUSED CURRICULUM

# The Complete Institutional Automation Framework

eSchool is not just a management system; it is a unified ecosystem designed to modernize tertiary education administration in Nigeria.



Seamless Admission Management



Automated Registration



Intelligent Carry-Over Tracking



Structured Add & Drop Process



Spill-Over Student Management



Automated Results Computation



Revenue Security & Reconciliation



Real-Time Executive Insights



## Extremely Affordable Deployment

World-class digital transformation tailored for institutional budgets.

HIGH ROI

# Ready to Digitize Your Institution?

Echo Systems Network Ltd is ready to partner with you for a seamless digital transformation journey.



## Live Demonstration

Schedule a real-time walkthrough of the eSchool platform tailored to your needs.



## Workflow Mapping

Let us analyze your current processes and design an automated blueprint.



## Commercial Proposal

Receive a transparent, customized cost structure for your institution.



## Pilot Deployment

Start small with a specific faculty or department to test efficiency.

Empowering Tertiary Institutions Through **Smart Automation**

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