PLATEAU STATE UNIVERSAL BASIC EDUCATION BOARD (PLA-SUBEB)

HOPE-EDU PROGRAMME

(World Bank Assisted Programme)

DEMONSTRATION OF THE PLATEAU HOPE-EDU TRACE & TRACK MODULE

A Technical Assessment of the System's Capacity to Prove, Verify, and Document the End-to-End Delivery of Teaching and Learning Materials (TLMs) in Support of HOPE-EDU Program-for-Results (PforR) Implementation and Independent Verification

Submitted To

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Purpose of the Document

This document demonstrates the operational capability of the Plateau Hope-Edu Trace & Track Module to provide a secure, transparent, and auditable digital platform for managing the end-to-end distribution of Teaching and Learning Materials (TLMs) across Plateau State. It presents evidence of the system's ability to document, verify, and report every stage of the distribution process—from allocation to school-level confirmation—in alignment with the implementation requirements of the HOPE-EDU Programme and the verification principles of the World Bank Program-for-Results (PforR) financing approach.

The document further illustrates how the deployed platform strengthens governance, enhances accountability, supports evidence-based decision-making, and generates the digital records and management reports required for programme monitoring, independent verification, and executive oversight.

Document Information

Document Title	Demonstration of the Plateau Hope-Edu Trace & Track Module
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Confidentiality Notice

This document has been prepared exclusively for the Plateau State Universal Basic Education Board (PLA-SUBEB) to support executive review and decision-making regarding the implementation and operation of the Plateau Hope-Edu Trace & Track Module under the HOPE-EDU Programme. It contains proprietary technical and operational information belonging to Plateau Hope-Edu and shall not be reproduced, distributed, or disclosed, in whole or in part, without the prior written consent of both PLA-SUBEB and Plateau Hope-Edu.

"Driving Digital Transformation in Education Through Innovation, Accountability, and Intelligent Information Systems."

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1. Introduction

The Plateau Hope-Edu (EIS) Trace & Track Module, currently deployed for the Plateau State Universal Basic Education Board (PLA-SUBEB) under the HOPE-EDU Programme, is an enterprise-grade digital solution designed to provide complete visibility, accountability, and verification throughout the lifecycle of Teaching and Learning Materials (TLMs).

The system has been purpose-built to digitize and document every stage of the TLM distribution process—from receipt at the State level to final confirmation at the beneficiary school—creating a secure, auditable, and evidence-based record of implementation.

This capability directly supports the requirements of the World Bank Program-for-Results (PforR) financing model, where disbursements are linked to independently verified results rather than expenditure alone. By maintaining comprehensive digital records, audit trails, real-time dashboards, and standardized reports, the Trace & Track Module enables Plateau State to demonstrate with confidence that TLMs have been distributed transparently, efficiently, and in accordance with HOPE-EDU operational requirements.

2. Alignment with Program-for-Results (PforR) Requirements

Under the PforR financing approach, governments are required to produce verifiable evidence demonstrating that agreed programme results have been achieved before disbursements are made.

The Edumanager Trace & Track Module provides this evidence through a secure digital chain of custody that records every transaction associated with the movement of Teaching and Learning Materials.

The platform supports PforR implementation by:

- Documenting each stage of the distribution process in real time;
- Maintaining immutable audit trails of all user actions;
- Generating standardized reports for management and independent verification;
- Providing dashboards that display progress against implementation targets; and
- Enabling independent verification agents (IVAs) to validate programme outputs using system-generated evidence.

As a result, the system provides the documentary and operational evidence required to support Disbursement-Linked Indicator (DLI) verification.

3. End-to-End Digital Chain of Custody

The Trace & Track Module establishes a complete electronic chain of custody for every consignment of Teaching and Learning Materials. Each movement is captured as a digital transaction and stored in the centralized database.

The workflow includes:

- Registration of Teaching and Learning Materials received into the State inventory.
- Allocation of materials to Local Government Education Authorities (LGEAs) and beneficiary schools.
- Electronic authorization of dispatch.
- Confirmation of receipt by receiving officers.
- Verification by designated School Representatives.
- Confirmation of final delivery to beneficiary schools.
- Executive reporting and audit.

Each transaction is linked to:

- Transaction reference number
- Material description
- Quantity
- Originating location
- Destination
- Receiving institution
- Responsible officer
- Date and time of transaction
- Transaction status

This creates a complete digital history for every consignment, ensuring that educational resources can be traced from source to destination.

4. Digital Evidence Supporting Verification

The system provides multiple forms of evidence that support operational monitoring and independent verification. For every allocation and distribution event, the platform records:

4.1 Allocation Records

The system maintains electronic allocation records identifying: beneficiary school, Local Government Area, Area Directorate, type of learning materials, approved quantities, allocation date, and approving officer. These records establish the official allocation baseline against which subsequent distribution activities are measured.

4.2 Acceptance Records

Upon receipt of allocated materials, receiving officers confirm acceptance electronically. Acceptance records include: receiving officer, receiving institution, date received, quantity accepted, remarks, and transaction status. These records demonstrate that allocated materials have physically reached the designated administrative level.

4.3 Distribution Records

The Distribution Module documents movement of Teaching and Learning Materials from administrative centres to beneficiary schools. Each distribution record includes: delivery

destination, quantity distributed, distribution date, responsible officer, and current delivery status. This information enables management to monitor implementation progress in real time.

4.4 School Confirmation

School Representatives formally acknowledge receipt of allocated materials through the platform. Each confirmation records: school, representative, date received, quantity confirmed, and confirmation status. This represents the final verification stage in the distribution process.

5. Real-Time Verification through Executive Dashboards

One of the strongest verification capabilities of the Edumanager platform is the Executive Dashboard. The dashboard provides management with continuously updated operational information, including: total allocations, materials distributed, pending collections, outstanding confirmations, completed deliveries, participating schools, Local Government performance, and user activity.

Because dashboard information is generated directly from live operational data, management and verification teams can independently monitor programme implementation without waiting for manual reports.

6. Audit Trail Supporting Independent Verification

Every significant activity performed within the Trace & Track Module is automatically recorded in the system audit log.

Examples include: user login, allocation approval, acceptance confirmation, distribution updates, report generation, and administrative changes.

The audit trail records: user identity, action performed, date, time, and affected records. This immutable log provides evidence that operational activities occurred as reported and supports independent verification by auditors and the Independent Verification Agent (IVA).

7. School-Level Verification

The Trace & Track Module links every allocation to a specific beneficiary school. This enables verification teams to determine:

- Whether the school was included in the distribution programme;
- What materials were allocated;
- Quantities approved;
- Quantities received;
- Confirmation status.

School-level reporting strengthens accountability by ensuring that implementation can be validated at the point of service delivery.

8. Monitoring Distribution Performance

The system continuously measures operational performance using predefined indicators. Examples include: percentage of schools served, quantity of materials distributed, pending allocations, delayed deliveries, completed distributions, and Local Government completion rates. Management dashboards highlight implementation gaps requiring corrective action.

9. Exception Reporting

The platform automatically identifies distribution anomalies, including: pending allocations, unconfirmed deliveries, incomplete distributions, delayed acceptance, and outstanding school confirmations. Exception reports enable management to resolve issues promptly while providing auditors with evidence of programme oversight.

10. Standardized Reports for World Bank Verification

The system generates standardized reports suitable for submission to Government and development partners. Examples include:

- Allocation Reports
- Acceptance Reports
- Distribution Reports
- School Delivery Reports
- Local Government Summary Reports
- Executive Dashboards
- Bottleneck Analysis Reports
- Audit Trail Reports

Reports may be exported in PDF, Microsoft Excel, and CSV formats, ensuring compatibility with review and verification processes.

11. Support for Disbursement-Linked Indicators (DLIs)

The Trace & Track Module provides operational evidence that supports verification of several HOPE-EDU implementation requirements associated with PforR disbursements. The platform demonstrates:

- That approved Teaching and Learning Materials were allocated;
- That allocations were received by designated administrative units;
- That beneficiary schools acknowledged receipt;
- That implementation progress can be monitored in real time;
- That comprehensive audit records exist for every transaction; and
- That management can generate standardized evidence for review by oversight bodies.

These capabilities provide a transparent and verifiable basis for demonstrating programme implementation and supporting the evidence required during DLI verification exercises.

12. Conclusion

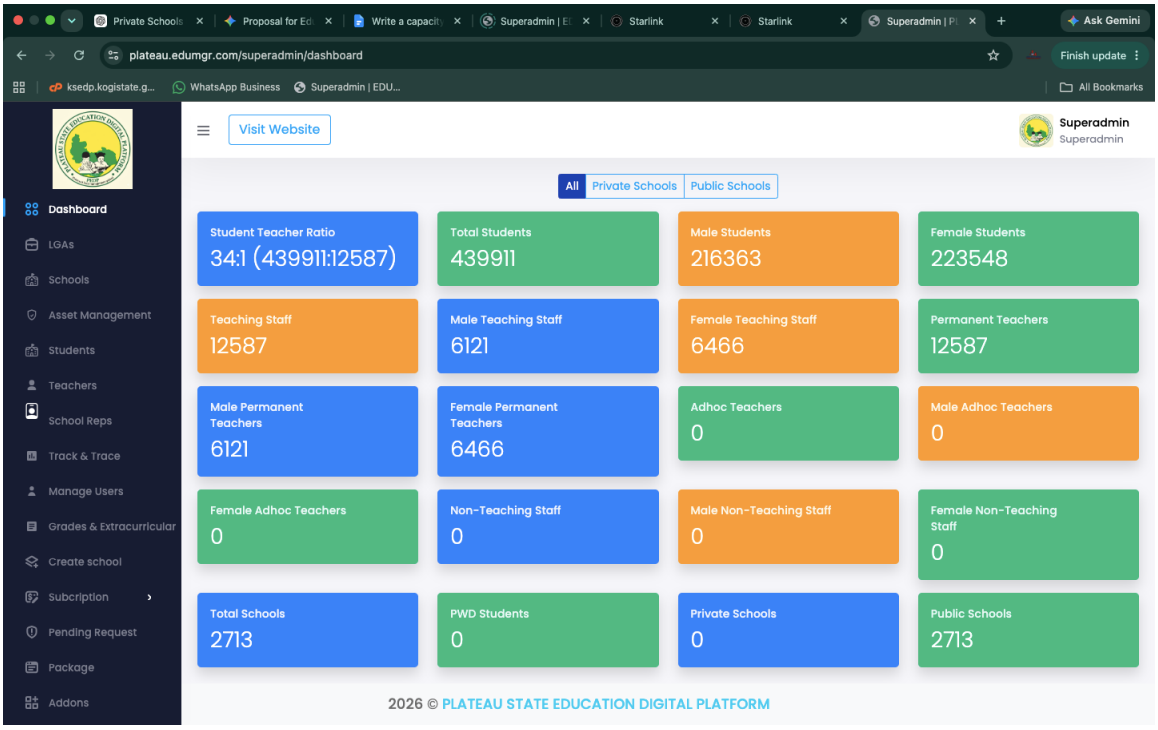
The Plateau Hope-Edu Trace & Track Module provides Plateau State with a comprehensive digital platform for proving, verifying, and documenting the end-to-end delivery of Teaching and Learning Materials under the HOPE-EDU Programme. Through centralized data management, role-based workflows, real-time dashboards, detailed transaction records, audit trails, and standardized reporting, the system establishes a secure digital chain of custody that strengthens accountability and transparency across all levels of implementation.

By enabling the production of verifiable operational evidence—from allocation through school confirmation—the platform supports the information needs of programme managers, auditors, and Independent Verification Agents. While the ultimate determination of PforR disbursements rests with the applicable verification and financing processes, the Trace & Track Module is designed to provide the high-quality, traceable documentation needed to substantiate implementation results and facilitate those verification activities.

Appendices

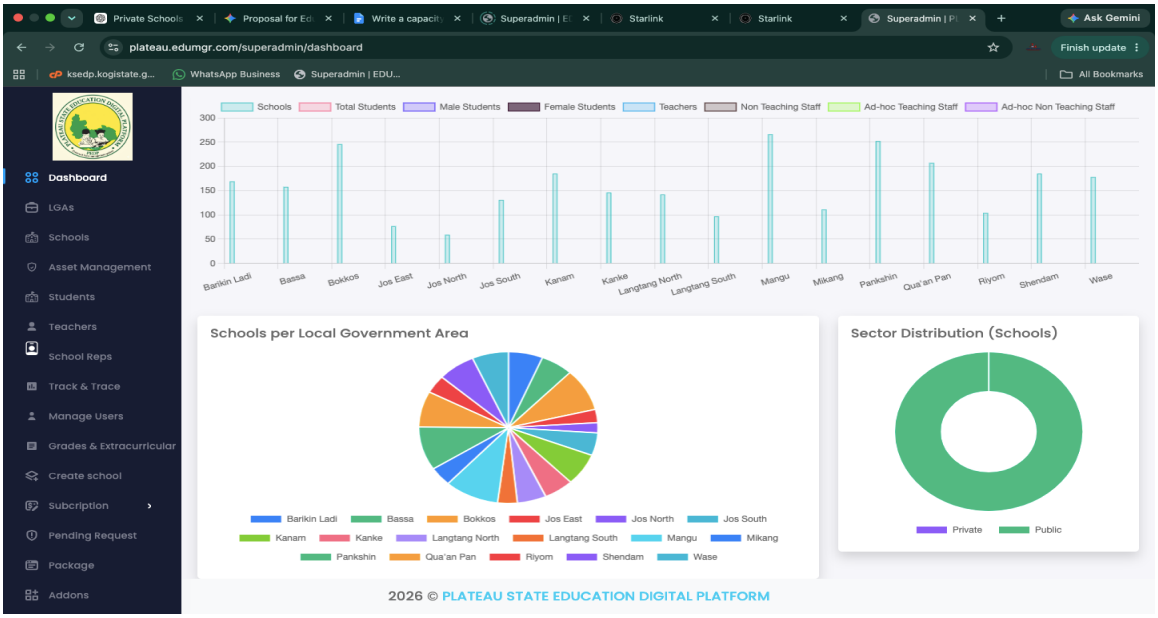
Appendix A: Executive Dashboard Overview

Displays system-wide statistics including total learners, teaching staff, and facility metrics.



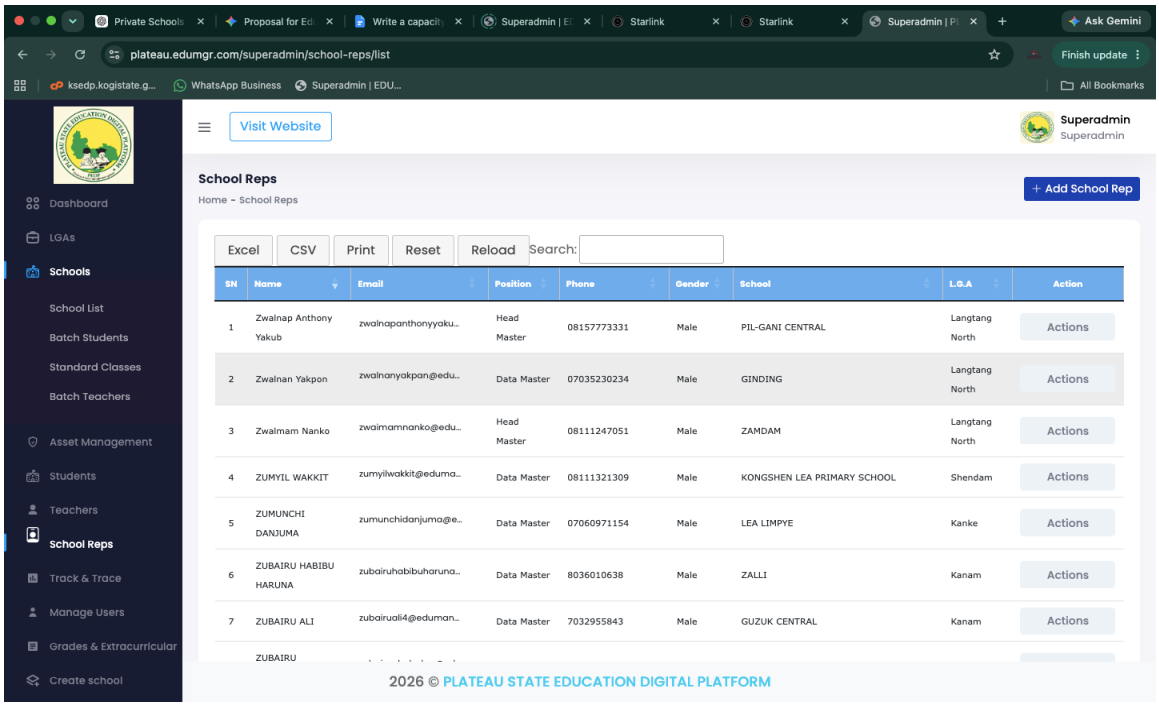
Appendix B: LGA Analytics and Sector Distribution

Provides geographical distribution and visual pie-chart analytics of educational sectors.



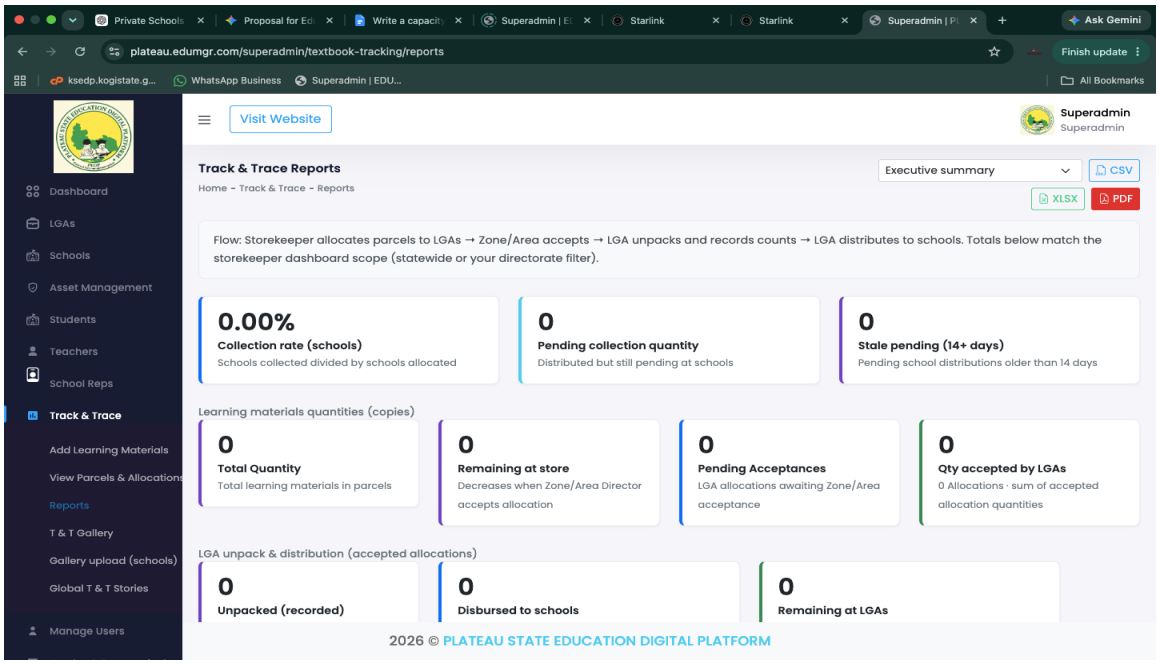
Appendix C: School Representatives Registry

Shows the master registry of authorized personnel designated to receive tracking allocations.



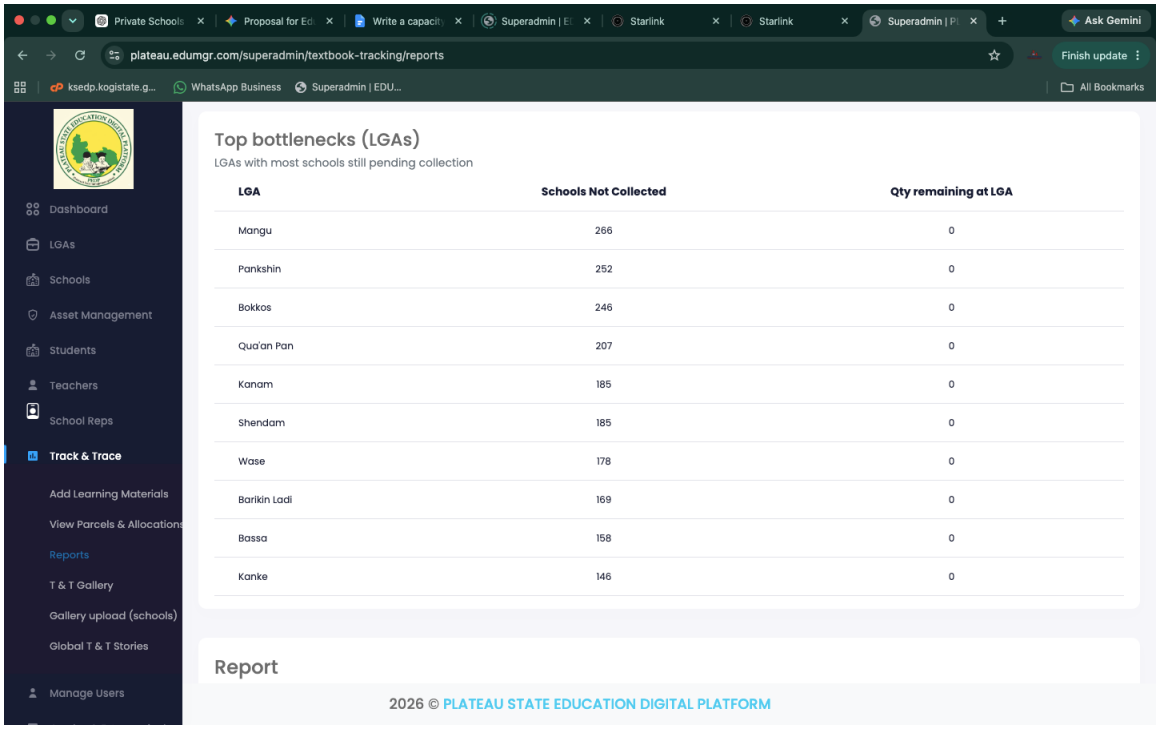
Appendix D: Track & Trace Executive Summary Reports

Visualizes overall collection rates, quantities remaining, and pending acceptances.



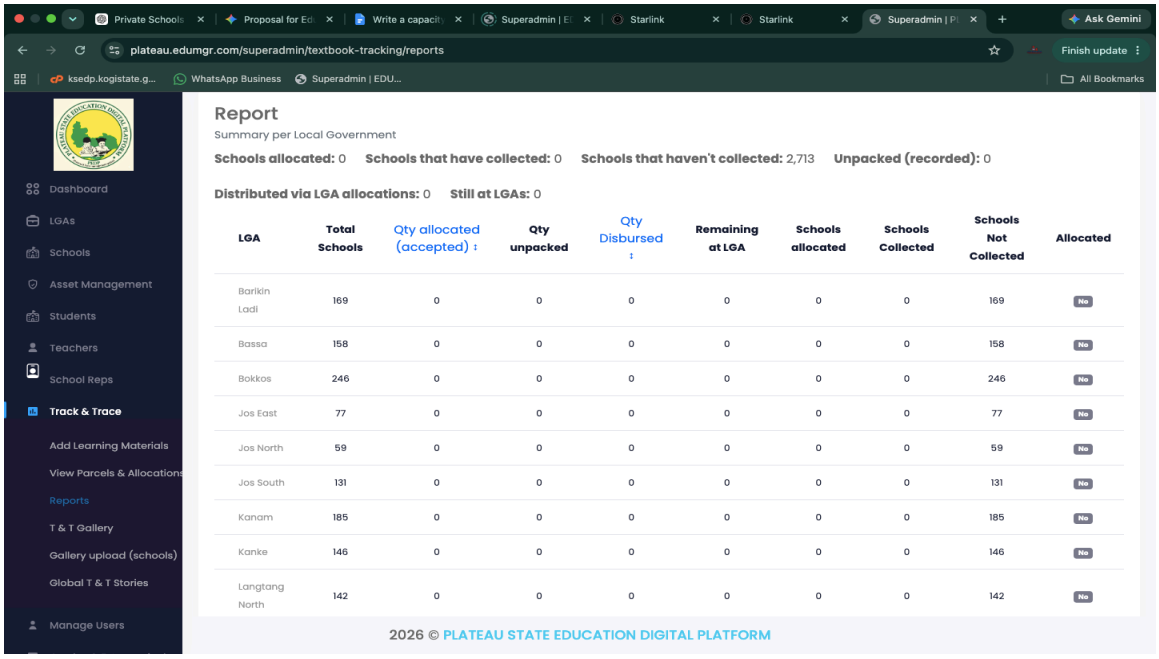
Appendix E: Top Bottlenecks Analysis

Highlights LGAs with the highest number of schools yet to collect materials, facilitating intervention.



Appendix F: Track & Trace Summary per Local Government

Detailed tabular breakdown of schools allocated, collected, unpacked, and pending per LGA.



Appendix G: User Management and Role Assignments

Displays the active directory of administrative users and their corresponding RBAC privileges.

