



Sunbeam Staff Logsheet Application

Project overview

The Sunbeam Staff Logsheet Application centralizes logsheets, schedules, course, and module management, providing both staff and coordinators with an efficient and secure platform.

**A comprehensive solution to replace
paper-based logbooks with real-time
tracking and secure platform
management.**

Key Objectives







Replace traditional
paper-based
logbooks

Enable real-time
tracking of staff
activities

Provide coordinators
with actionable
insights and reports

Ensure data security
and easy
accessibility

Key Features

-  Secure Access – Staff & Coordinator login with role-based control
-  Logsheet Management – Topics taught, assignments, progress tracking
-  Approval Workflow – Coordinators review, approve/reject logsheets
-  Course Management – Courses, modules, schedules, bulk upload
-  Reports & Dashboards – Activities, hours, performance metrics
-  File Management – Upload curriculum, import schedules via Excel

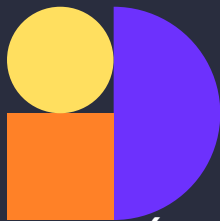
System Architecture

Three-Tier Architecture



Frontend (React.js)

UI, Navigation, Role-based Views,
API communication



Backend (Node.js + Express)

Business Logic, REST APIs, JWT
Authentication, CRUD operations

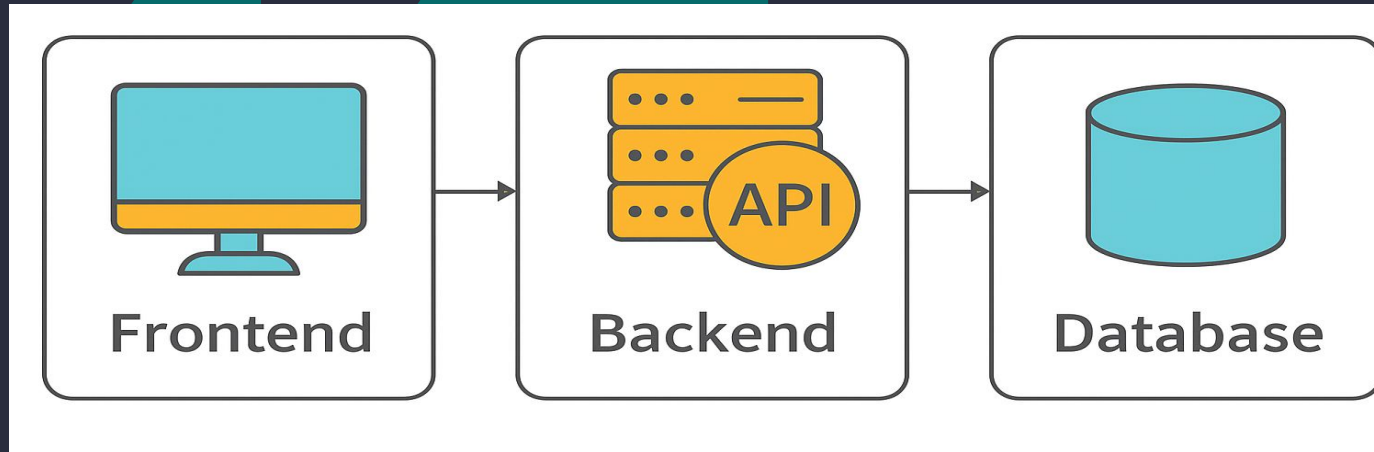


Database (MySQL)

Staff, Courses, Modules,
Logsheets, Data Integrity

Security

JWT tokens ensure secure access
with role-based controls.





Technology Stack

- Frontend: React.js, Axios, Responsive UI
- Backend: Node.js, Express.js, REST APIs
- Database: MySQL (Relational, Integrity)
- Security: JWT, Role-based Access, Authentication



Data Flow

- User interacts with frontend
- Requests sent via Axios
- Backend processes & applies logic
- Database returns results to frontend



Staff Features



Dashboard – Today's schedule & logs overview



View Schedules – Course, module, date, time, type, venue



Submit Logsheets – Topics, assignments, progress




Manage Logsheets – Status (Pending/Approved/Rejected), edit pending

Workflow Rules

- Only assigned schedules allowed
- Prevent duplicate submissions
- Pending logs can be edited/deleted
- Real-time status tracking

Coordinator Features


 Staff Management – Add/update users, reset passwords

 Course Management – Create/manage courses

 Module Management – Upload modules with curriculum

 Schedule Management – Bulk upload/export

 Logsheets Approval – Approve/reject logs with remarks

 Reports & Analytics – Performance insights



Database Design

Database: logsheet_app (MySQL)



Staff Table – Credentials, roles, details



Courses Table – Info + coordinators



Modules Table – Curriculum linked to courses



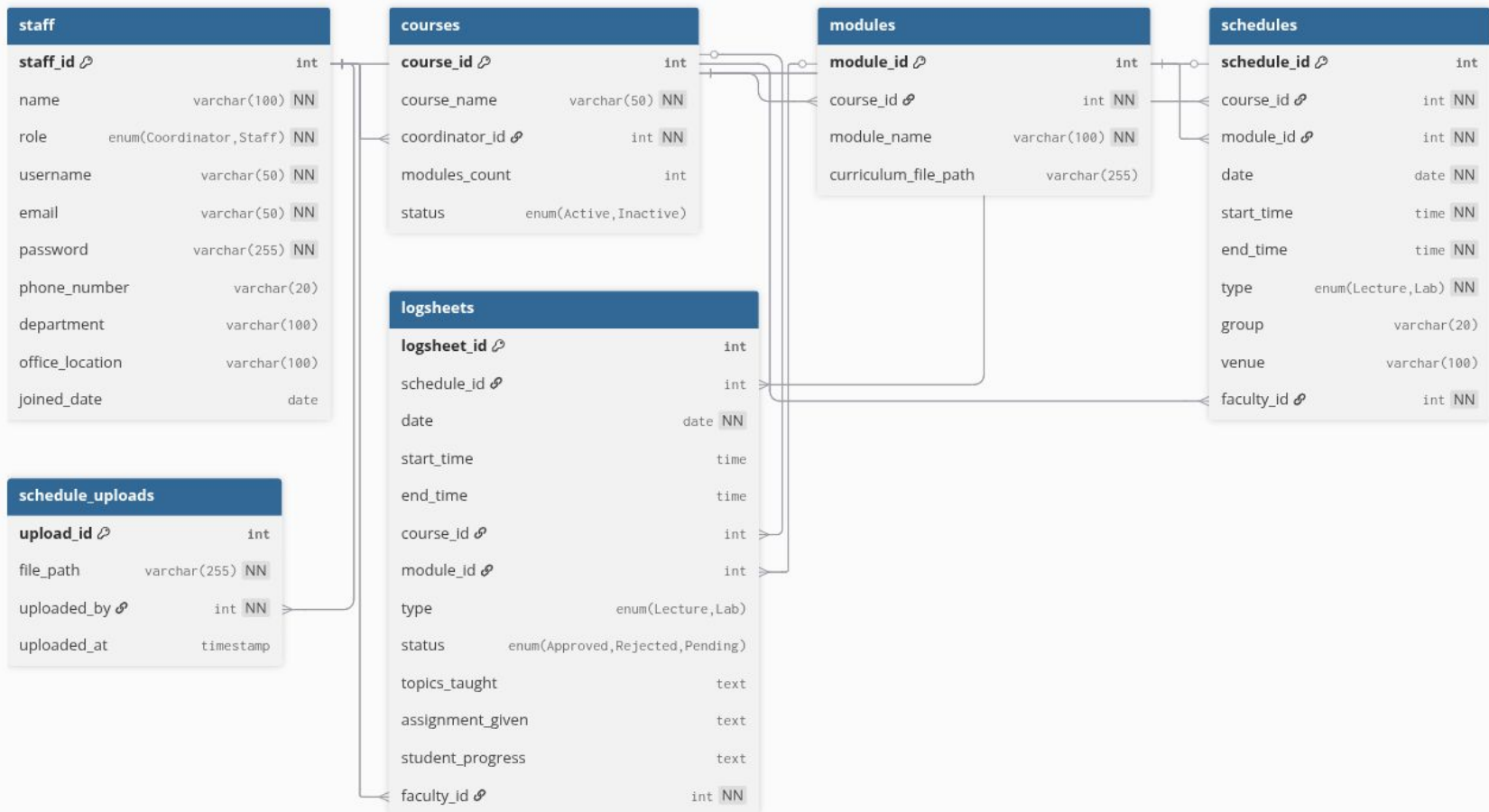
Schedules Table – Faculty + timings



Logsheets Table – Staff activity, approval status



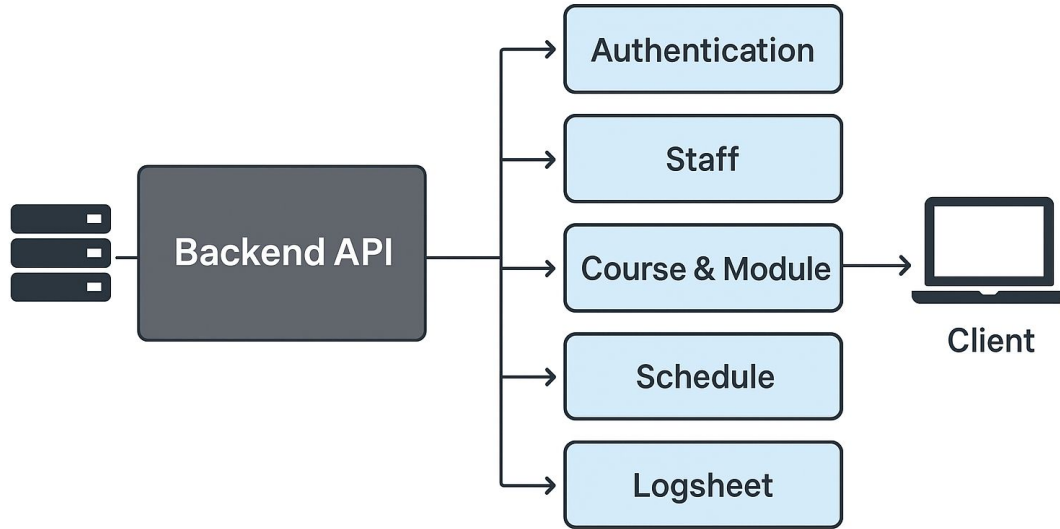
Uploads Table – File tracking





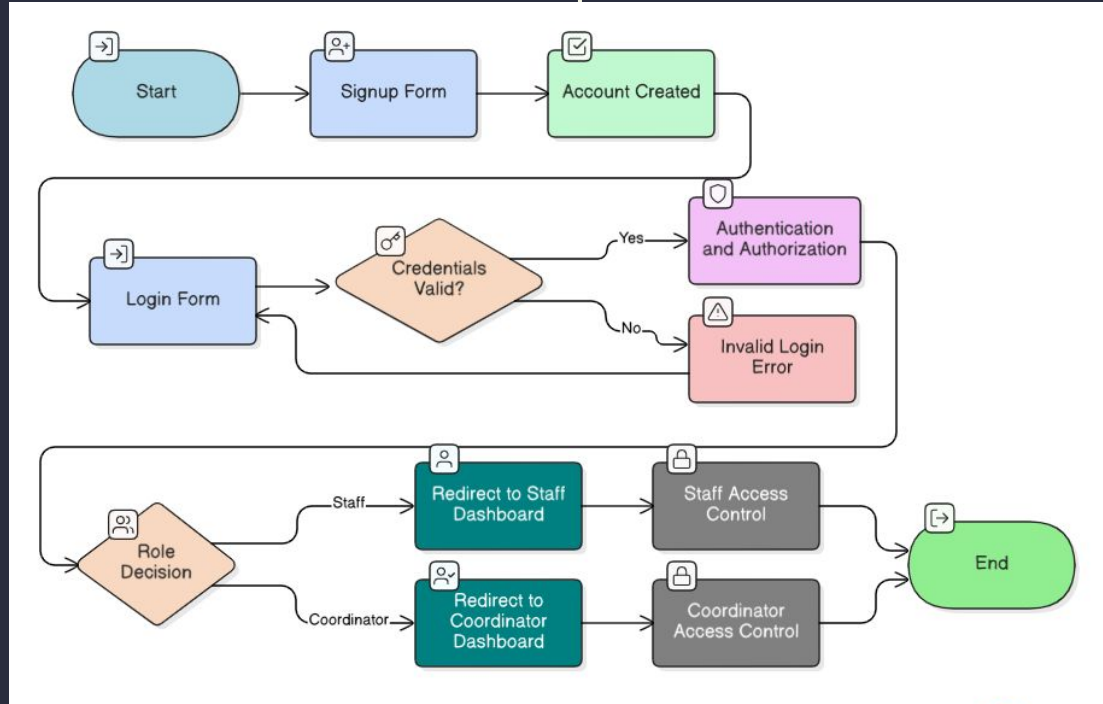
Backend API Flow

Staff Logsheets Application – Backend API Flow



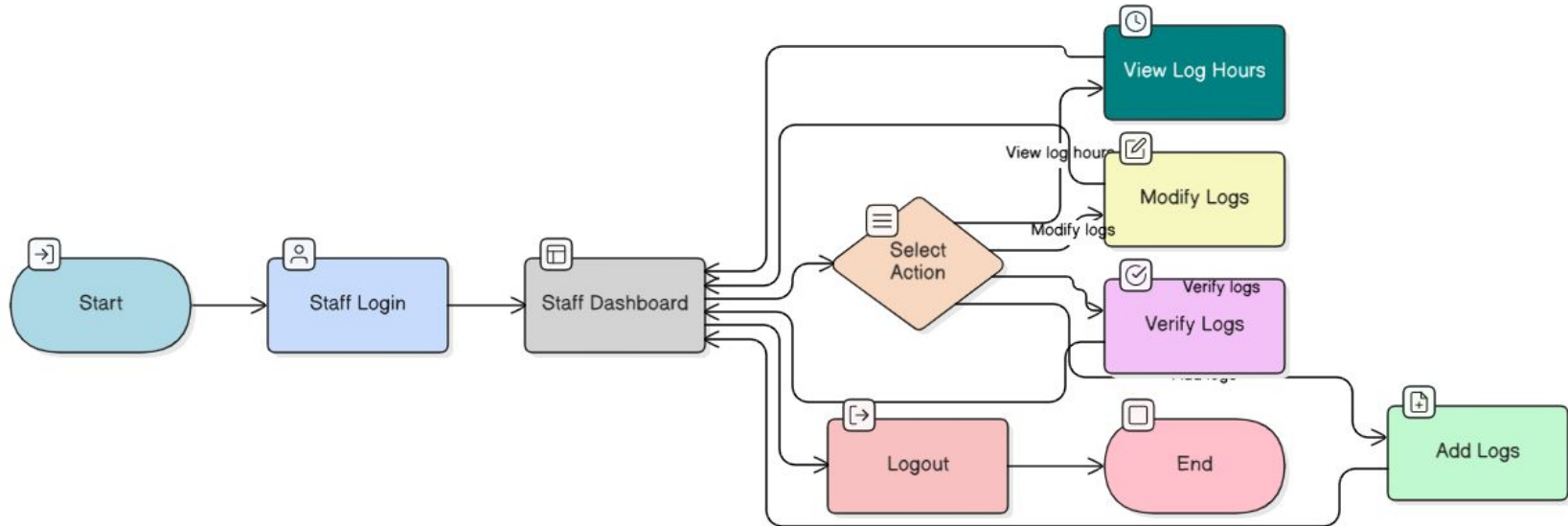
System Workflows

Authentication



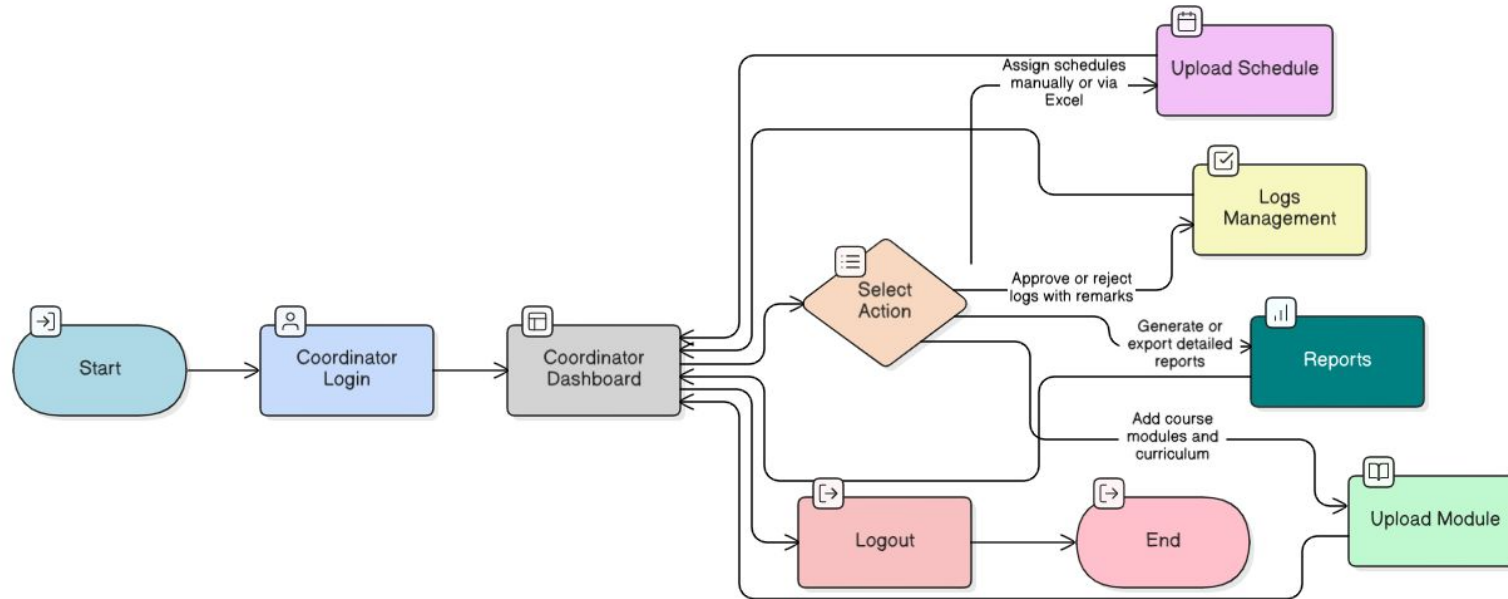
System Workflows

Staff Workflow



System Workflows

Coordinator Workflow





Future Scope

- Mobile apps with offline support
- Advanced analytics and interactive dashboards
- Real-time notifications and alerts

Thank you