Schools24 Platform - Week 3 Progress Report

Period: January 12 - January 18, 2026
Project: School Management Platform
Status: Backend Complete / Frontend Integration - On Track

Executive Summary

Week 3 marks a major milestone: **The Backend is 100% Complete**. We have successfully implemented all planned modules (Auth, Student, Academic, Teacher, Admin), totaling 38 API endpoints and 20 database tables. Concurrently, the **Frontend is ~90% complete**, with the Teacher Dashboard currently being finalized. The focus now shifts to integrating these two systems and rigorous end-to-end testing.

What We Built This Week

Teacher Module (Completed)

- **Dashboard**: Real-time view of assigned classes and schedules.
- **Attendance**: Digital attendance marking with **Photo Proof** upload capability.
- **Academics**: Tools to create homework (stored in MongoDB) and enter student grades.
- **Communication**: Announcement creation and management.

Admin & Finance Module (Completed)

- **User Management**: Full control to create and manage Students, Teachers, and Staff.
- **Fee Management**: Configurable fee structures (monthly/yearly) and automatic calculations.
- **Payments**: Recording fee collections with receipt generation.
- **Audit Logs**: Security tracking for all critical system actions.

Rigorous Testing & Stability

- **38 API Endpoints** fully tested and verified active.
- **Connection Stress Tests**: Verified stability with Neon PostgreSQL and MongoDB Atlas.
- **Bug Fixes**: Resolved column mismatch issues in the Admin repository.

Deployment Readiness

- **Oracle Cloud (ARM)**: "Seamless" deployment guide created for $0/month high-performance hosting.
- **Render (500MB)**: Optimized configuration created for low-memory free tier hosting.
- **Environment Setup**: Full production environment variable secrets generated and secured.

Frontend Progress (Concurrent)

- **Completion**: ~90% of user interfaces are built.
- **Current Focus**: Finalizing the code completion in the Teacher Dashboard.
- **Next**: Wiring up the screens to the live Backend APIs.

Technical Stats

- **38** Live API Endpoints
- **21** Database Tables (Auto-migrating)
- **File Storage**: Zero-cost local storage implemented for attendance photos.
- **20** Database Tables (Auto-migrating)
- **1** Optimized Docker Container (<150MB RAM usage)
- **2** Deployment Strategies (Performance vs. Compatibility)

Next Steps (Week 4)

- **Integration**: Connect the completed Frontend to the Live Backend.
- **End-to-End Testing**: Verify user flows (e.g., Administrator creates Student -> Student logs in).
- **Bug Bashing**: Resolve any issues found during integration.
- **Final Polish**: Prepare for "Final Web App" launch.

Resources Allocated

Development Team: UpCraft Solutions

Report Generated: January 18, 2026
Next Report: January 25, 2026