SOHOS ED

School Optimization & Holistic Operating System

IDENTITY

Name: SOHOS ED (pronounced: *So-hoss*)
Blend: SOHO (Soji/Holistic) + OS (Operating System/Echos)
Engine: SOHOS Tech
Application: SOHOS International | SOHOS Preschools | Edu-Optima Platform

Concept: A direct, symmetrical blend. High-end global feel with scholastic precision.
Living Lab: Kanha House

WHAT IS SOHOS ED?

A data-driven educational consultancy and SaaS provider designed to fix the **"Operational Gap"** in Indian Budget Private Schools.

The Gap: Government (NEP 2020) mandates holistic education. Schools lack the processes to implement it.

The Fix: SOHOS (School Operating & Holistic System) — a plug-and-play operating system that automates government compliance (PARAKH/HPC) while instilling Japanese-style discipline and student autonomy.

We do not sell curriculum. We sell culture-as-code.

VISION & MISSION

VISION

Redefine Indian education by shifting focus from **"Teaching" (Content)** to **"Being" (Character)**, creating a generation of self-reliant, community-focused citizens.

MISSION

Equip 1,000 budget schools with the SOHOS framework by 2030, reducing operational costs while raising educational standards to global levels.

Core Transformation: Compliance burden → Operational efficiency

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THE PROBLEM

Target: 400,000+ Affordable Private Schools (APS) in India

Pain Points:

- NEP 2020/PARAKH-specific HPC compliance penalties
- High infrastructure costs with limited budgets
- Teacher attrition and operational inefficiency
- Social-Emotional Learning (SEL) data gaps
- Lack of holistic progress documentation
- Digital literacy barriers to conventional SaaS adoption

THE SOLUTION: S.O.H.O.S. FRAMEWORK

School Operating & Holistic System (Proprietary)

Core Innovation: Culture-as-code | Proven low-tech > Expensive high-tech

MODULE A: The "Han" Algorithm (Social Engineering)

Function: Automated creation of mixed-ability student groups (Hans)

Purpose:

- Eliminate bullying through strategic grouping
- Enforce peer-to-peer learning
- Build collaborative intelligence
- Generate social-emotional learning data

Output: Optimized group compositions based on academic performance, behavioral patterns, and social dynamics

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MODULE B: Digital "Toban" (Responsibility Tracking)

Function: Gamified tracking of student duties

Applications:

- Soji (cleaning duties)
- Lunch service rotation
- Classroom management tasks
- Community service activities

Data Conversion: Physical actions → Holistic Progress Card data points

Impact: Builds responsibility, autonomy, and provides compliance evidence

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MODULE C: The "Chokai" Engine (Morning Alignment)

Function: AI-curated daily discussion topics

Format: 5-minute teacher-led sessions on ethics and current affairs

Coverage:

- NEP value education mandates
- Critical thinking development
- Community awareness
- Leadership rotation opportunities

Resource: Zero infrastructure | Maximum impact

SUPPLEMENTARY: Student Learning Tools

Community-Based Digital Resources:

- Practical hands-on learning platforms
- Tool-based skill development modules
- Interactive educational resources
- Accessible to all students within SOHOS network

Philosophy: Democratize access to quality learning tools beyond classroom walls

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Edu-Optima Platform: The Optimization Engine

Automated NEP 2020 compliance + Resource allocation system that converts school operational data into actionable transformation roadmaps.

Technical Core: Linear Programming for budget optimization | Compliance automation | Evidence generation

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COMPETITIVE ADVANTAGE

Why SOHOS ED vs. Conventional EdTech?

1. NEP-ALIGNED SPECIALIZATION

- Not generic LMS or tutoring apps
- Direct PARAKH domain mapping through HPC automation
- 360° evidence collection via Han groups, Chokai, Toban systems
- Foundational-to-secondary stage coverage

2. BUDGET-FOCUSED EFFICIENCY

- Free audit generates instant savings roadmaps
- Example: 20% janitor cost reduction via Soji implementation
- No heavy implementation overhead
- CapEx-conscious recommendations

3. PROVEN LOW-TECH INNOVATION

- PISA-top Japan methodologies adapted for Indian context
- Zero-infrastructure wins (daily ethics talks, student cleaning systems)
- Bypasses digital literacy requirements
- Works where conventional SaaS fails

Competitors: Vedantu, Classplus, generic ERPs
Differentiation: Specialized compliance automation, not broad-spectrum tools

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SYSTEM ARCHITECTURE

INPUT MODULE: The 4-Category Audit

A. DEMOGRAPHICS & SCALE

→ Total Student Count (Primary/Middle/Secondary breakdown)
→ Total Faculty Count (Teaching vs. Non-Teaching)
→ Classroom Surface Area (sq. ft)
→ Open Ground Area
→ Calculated: Student-Teacher Ratio, Space Utilization

B. FINANCIAL HEALTH

→ Annual Revenue (Total Fees × Collection Rate)
→ Burn Rate (Salaries + Rent + Utilities)
→ CapEx Budget (Available cash for improvements)
→ Optimization Constraint: Maximize NEP compliance where Cost ≤ Budget

C. INFRASTRUCTURE STATUS

→ Science Lab: YES/NO
→ Library: YES/NO
→ Sports Equipment: YES/NO
→ Internet: YES/NO
→ Current Chore Spend: ₹/month on janitors/cleaners

D. PAIN INDICATORS

☐ High Teacher Attrition
☐ Low Admission Rates
☐ Parent Complaints (Discipline)
☐ NEP Compliance Fear

OPTIMIZATION LOGIC

Algorithm: Knapsack Problem (Resource Allocation)
Objective: Maximize NEP Compliance Score (0-100)
Constraints: Budget (₹) | Time (Teacher Hours) | Space (sq. ft)

Decision Matrix Examples

SCHOOL GOAL	CONSTRAINT	RECOMMENDATION	METHOD
Skills Lab Setup	Budget < ₹10k	Origami Math Lab (Paper-based geometry)	Monozukuri

SCHOOL GOAL	CONSTRAINT	RECOMMENDATION	METHOD
Skills Lab Setup	Budget > ₹2L	IoT/Robotics Lab (Hardware kits)	Technology Integration
Improve Hygiene	Budget: Low	Implement Soji (Student Cleaning Time)	Save 20% janitorial costs
Holistic Report Card	Tech: None	Manual Activity Log (Paper → Digital)	Progressive digitization

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OUTPUT: THE TRANSFORMATION ROADMAP

Format: 6-Page Professional PDF Report

PAGE 1: HEALTH CARD

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OPERATIONAL EFFICIENCY: [65%] Grade B
NEP COMPLIANCE SCORE: [30%] AT RISK
POTENTIAL SAVINGS: ₹1.2 Lakhs/year
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PAGE 2: IMMEDIATE WINS (₹0 Cost)

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ACTION: Start Morning Assemblies (Chokai)
PURPOSE: Cover NEP "Ethics" mandate
RESOURCE: Week 1 script template [Download]
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PAGE 3: INVESTMENT ROADMAP (Budget-Aligned)

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AVAILABLE CAPEX: ₹50,000

ALLOCATION:
₹5,000  → Whiteboards for Group Discussion corners (Han method)
₹10,000 → Basic Art Supplies for Creative Lab
₹0      → Student Duty Roster system [Template Download]
₹35,000 → [Reserve for Phase 2 recommendations]
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PAGE 4: SOHOS MANUAL (School Operating System)

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CUSTOMIZED SOP for [School Size]
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DAILY SCHEDULE:
08:00 AM → Gate Check (Student Prefects)
12:30 PM → Lunch Service (Student Servers - Toban rotation)
02:00 PM → 15-min Cleaning Time (Soji)
03:15 PM → Han Group Reflection
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PAGE 5: HPC IMPLEMENTATION GUIDE

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PARAKH DOMAIN MAPPING:
→ Physical Development: Soji cleaning protocols
→ Socio-Emotional: Han group activities
→ Cognitive Development: Chokai reflection sessions
→ Language & Literacy: [Customized based on audit]
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PAGE 6: PROGRESS TRACKING FRAMEWORK

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30-DAY MILESTONES
90-DAY COMPLIANCE TARGETS
180-DAY IMPACT METRICS
HOLISTIC PROGRESS CARD (HPC) DIGITIZATION TIMELINE
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TOKKATSU METHODOLOGIES

Japanese Concepts Adapted for Indian Budget Schools:

SOJI (掃除)
Student-led cleaning routines
→ Reduces operational costs
→ Builds responsibility
→ Fulfills NEP hygiene mandates

HAN (班)
Small collaborative groups
→ Peer learning systems
→ SEL data collection
→ Community building

CHOKAI (朝会)
Morning assemblies/ethics talks
→ Zero infrastructure required

→ Daily value education
→ Leadership rotation

TOBAN (当番)
Duty roster system
→ Service learning integration
→ Operational participation
→ Life skills development

MONOZUKURI (ものづくり)
Making/crafting culture
→ Low-cost skill labs
→ Hands-on learning
→ NEP experiential requirements

TECHNICAL STACK

Platform: Responsive Single-Page Web App
Technologies: HTML5 | CSS3 | Vanilla JavaScript
Storage: localStorage (offline-first)
Output: PDF generation | Print-optimized
Design: Mobile-first, clean SaaS interface
Compliance: NEP 2020 | PARAKH HPC guidelines

VALUE PROPOSITION

What Schools Receive:

1. Free operational audit (4-category input)
2. AI-calculated efficiency scores
3. 6-page transformation roadmap
4. Budget-specific recommendations
5. Tokkatsu implementation templates
6. HPC compliance automation
7. Operational cost reduction strategies

Business Model:

- **Free Tier:** Audit + Basic roadmap

- **Premium:** Implementation support + Progress tracking
- **Enterprise:** Multi-school district optimization

MARKET CONTEXT

Target Geography: India
Regulatory Driver: NEP 2020 (National Education Policy)
Compliance Framework: PARAKH (Performance Assessment, Review, and Analysis of Knowledge for Holistic Development)
Market Size: 400,000+ budget private schools
Unique Position: Only NEP-specific optimization engine using Japanese pedagogy

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STRATEGIC ROADMAP (Phased Execution)

PHASE 1: The "Living Lab" (Months 1–3)

Goal: Validate the "Toban" (Duty Roster) algorithm in non-school setting

Location: Kanha House (Student Residence)

Action:

- Deploy Duty Roster App for 50 residents
- Manage cleaning and community tasks
- Collect behavioral compliance data

Success Metric: Achieve 85% compliance in assigned duties

Strategic Purpose: Generate proof-of-concept data for Nirmaan Application

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PHASE 2: The "Trojan Horse" (Months 4–12)

Goal: Market entry via compliance assistance

Target: 3–5 Budget Private Schools in Bhopal

Strategy: Free "NEP Audit" as lead generation

Process:

1. Analyze school operational data

2. Generate comprehensive "Transformation Report"
3. Identify compliance gaps and cost savings

The Hook:
"We will automate your mandatory Holistic Progress Cards (HPC) for FREE if you adopt our Morning Meeting protocols."

Conversion Path: Free audit → Trust building → SOHOS adoption

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PHASE 3: The SaaS Scale-Up (Year 2–3)

Goal: Revenue generation at scale

Product: Full SOHOS App (B2B SaaS)

Pricing: ₹500–₹1,000/month per school

Core Features:

- Resource Optimization Engine (Linear Programming)
- Automated HPC generation
- Han group algorithm deployment
- Digital Toban tracking system
- Chokai content library
- Budget allocation recommendations

Value Proposition: Maximum NEP compliance with minimum budget

Technical Innovation: Uses Linear Programming to tell schools exactly how to allocate limited budgets for optimal compliance outcomes

Target: 100+ schools by end of Year 3

PHASE 4: The Flagship Institution (Year 5+)

Goal: Physical proof of concept

Action: Establish first Model School (owned and operated by SOHOS ED)

Purpose:

- Gold-standard demonstration of SOHOS methodology
- Training ground for other school owners
- Living laboratory for continuous system refinement

- Proof of scalability and real-world impact

Strategic Impact: Transform from software provider to education authority

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DEVELOPMENT MILESTONES (Technical)

MILESTONE 0: Living Lab at Local School
MILESTONE 1: Web platform MVP (Edu-Optima audit tool)
MILESTONE 2: Automated PDF roadmap generation
MILESTONE 3: HPC digitization module
MILESTONE 4: Multi-school analytics dashboard
MILESTONE 5: Full B2B SaaS deployment

VISION STATEMENT

"A House of Growth"

SOHOS ED transforms affordable education through operational intelligence. We believe budget constraints should not limit educational excellence. By automating compliance and optimizing resources, we enable 400,000+ schools to focus on what matters: holistic student development.

The Engine: SOHOS Tech
The Method: Tokkatsu pedagogy
The Promise: NEP compliance without premium costs
The Impact: Accessible excellence for every child

PROJECT STATUS

Current State: Initial concept demonstration
Repository: Sohos-ED
Active Development: Responsive audit interface
Next Milestone: Optimization algorithm integration

School Optimization & Holistic Operating System
