SPARK OPUS

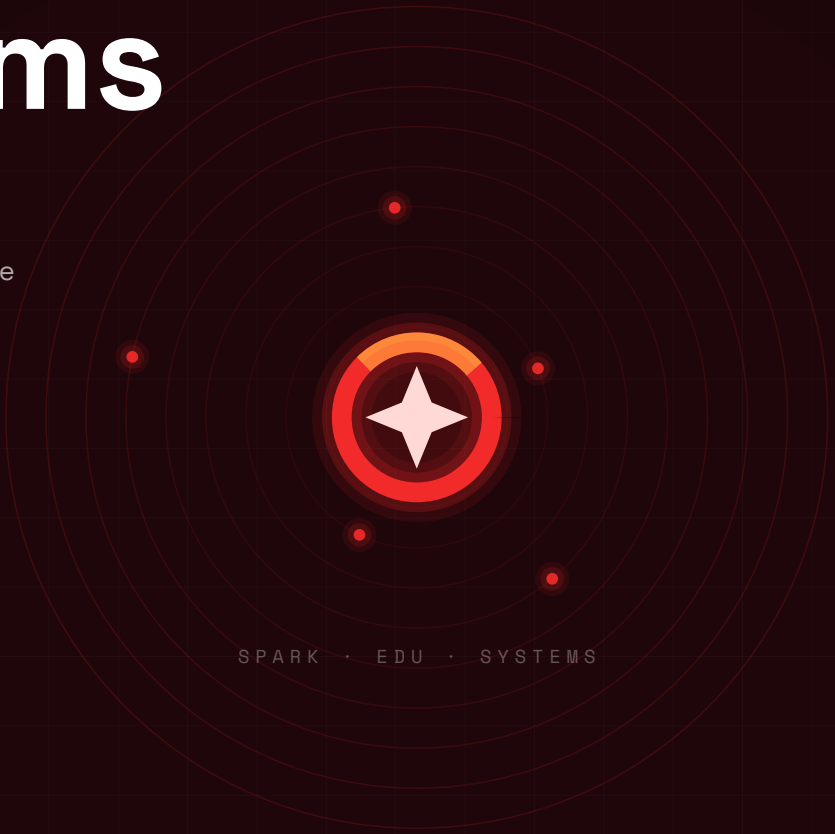
AN AI INNOVATION VENTURE BY CREATORS TOUCH

INSTITUTE OPERATING SYSTEM

Spark Edu-systems

Run your institute effortlessly

Teachers should teach. Every hour spent on registers, fee reminders and parent phone calls is an hour taken from the classroom.



SUBSCRIPTION | MONTHLY | YEARLY

PRODUCT DEMO PACKAGE

15 pages — problem, design, architecture, interface, rollout

sparkopus.com/products

02 — CONTENTS

WHAT'S IN THIS PACKAGE

A fifteen-page walkthrough of Spark Edu-systems: the problem it removes, how SPARK OPUS designed and engineered it, exactly what it looks like in use, and what it takes to get you live.

AT A GLANCE

Spark Edu-systems

Run your institute effortlessly

BUILT FOR
Schools, coaching centres, tuition institutes, training academies

RUNS ON
Staff web app, teacher mobile view, WhatsApp for parents

DATA IT HOLDS
Students, batches, attendance, fees, homework, communications

LANGUAGES
English, Hindi, Telugu, Tamil for parent communication

TIME TO LIVE
2–3 weeks from student and batch data

OWNERSHIP
Your student data, held for your institute alone and exportable

PRICING
Monthly or discounted yearly.

MONTHLY YEARLY

2 min
TO MARK A CLASS
Attendance for a full batch, from a phone, before the…

Same day
PARENTS INFORMED
Absence, homework and fee status reach parents…

1 record
PER STUDENT
Attendance, fees, marks and communication in one profile.

03 — THE PROBLEM

THE PROBLEM IT REMOVES

An institute's administrative load is invisible on the timetable and enormous in practice. It is absorbed by teachers, in the margins of teaching, and it degrades exactly when the institute grows.

01

Attendance is written twice and used never

A register is marked in class, copied into a sheet later, and consulted only when there is a problem. Nobody notices a pattern of absence until it has become one.

02

Fee collection runs on awkward phone calls

Reminders are made by a person who would rather not make them, to a parent who would rather not receive them, with no record of what was said.

03

Parents are informed only when something is wrong

The absence of routine communication makes every message feel like bad news, and the good news never gets told at all.

04

Student records are scattered

Admission form in a file, marks in a teacher's book, fees in a ledger, contact number in three places and out of date in two of them.

05

Management is reporting on the past

Collections, attendance trends and batch performance are assembled at month end — too late to act on.

WHAT IT COSTS RIGHT NOW

2 copies

OF EVERY REGISTER

Data entered twice is data trusted half as much.

Ad hoc

FEE REMINDERS

Collection depends on who has time to make the calls this...

Month-end

VISIBILITY

Problems surface after the month they could have been...

04 — THE ALTERNATIVES

WHY THE USUAL FIXES FAIL

Institutes have plenty of software options. The reason registers survive is that most of those options ask teachers to do more work, not less.

WHAT BUSINESSES TRY	WHAT ACTUALLY HAPPENS	WHY IT BREAKS
Paper registers and ledgers	The traditional system: reliable, familiar, entirely offline.	No trends, no reminders, no parent visibility, and one flood away from gone.
Spreadsheets per teacher	Each teacher maintains their own attendance and marks sheet.	Nothing consolidates, formats drift, and management cannot see across batches.
A full school ERP	A large platform covering everything including modules you will never open.	Priced and structured for large schools; coaching centres abandon it during onboarding.
A WhatsApp group per batch	Announcements and homework posted to a parent group.	Broadcast, not record. No attendance, no fees, no per-student history, and chaos in the replies.
A part-time admin person	One person absorbs registers, calls and reminders.	It works until enrolment grows, then becomes the bottleneck for everything.

THE GAP

The requirement is an institute system whose daily cost to a teacher is near zero, and whose output — to parents and to management — is automatic.

SPARK OPUS BUILT SPARK EDU-SYSTEMS TO CLOSE EXACTLY THIS GAP.

05 — THE SOLUTION

WHAT WE BUILT INSTEAD

IN ONE PARAGRAPH

Spark Edu-systems makes the daily record the source of everything else. A teacher marks attendance in two minutes; parents, fee status, homework notifications and management reports all follow from that single act without anyone re-entering anything.

01

Capture once, use everywhere

Attendance marked in class drives the parent notification, the absence pattern report and the eligibility calculation — with no second entry.

02

Parents informed by default

Routine, automatic updates on WhatsApp: attendance, homework, fees and announcements, per student rather than per group.

03

Management sees the present

Collections, attendance and batch health are live, not reconstructed at month end when nothing can be changed.

THE LOOP IT RUNS, EVERY TIME

Teacher marks class → Records update → Parents notified → Fees + follow-ups triggered → Reports live for management

WHERE WE DREW THE LINE

What it deliberately does not do: rank or profile children beyond what your institute already records, message parents outside your chosen hours, or share student data with anyone outside your institute.

06 DESIGN

HOW SPARK OPUS DESIGNED IT

We designed Edu-systems around a teacher with thirty students, four minutes before a class, holding a phone. If it does not work in that moment it does not work at all.

P1

Two minutes, from a phone

Marking a full batch must be faster than a paper register. Default-present with tap-to-absent, offline tolerant, one screen.

P2

Parents get facts, not noise

Per-student messages at sensible hours, in the parent's language. Frequency is a setting the institute controls.

P3

Fees without confrontation

Scheduled, polite, escalating reminders with a payment link remove the personal awkwardness from collection.

P4

Everything about a child in one place

One profile: admission details, attendance, fees, homework, marks and every message sent home.

THE PROCESS WE RAN

01

Sit in the staff room

We observe a full day: registers, reminder calls, parent queries and the month-end scramble.

02

Model the institute

Batches, timetables, fee structures, instalments, concessions and the academic calendar.

03

Prototype the two-minute mark

Attendance is tested with your least tech-comfortable teacher first, deliberately.

04

Parent comms design

Message templates, timing windows and language approved by your management.

05

Term cut-over

We migrate at a term or month boundary and run parallel with paper for two weeks.

07 — ARCHITECTURE

HOW SPARK OPUS BUILT IT

The system is a records core with three consumers: teachers, parents and management. Keeping those three views consistent from one write is the whole design problem.

THE SYSTEM, LAYER BY LAYER

RECORDS CORE
Students, guardians, batches, timetables, enrolment history and the academic calendar as first-class entities.

ATTENDANCE
Fast marking from mobile or desktop, offline-tolerant with sync, corrections with an audit trail, pattern detection.

FEES
Fee structures, instalment plans, concessions, dues calculation, receipts and payment-link issuance.

COMMUNICATION
WhatsApp templates for absence, homework, fees and announcements, with quiet hours and per-student targeting.

ACADEMICS
Homework and assignment notifications, test marks, progress records and per-student summaries.

REPORTING
Live collections, attendance trends, batch health, defaulter lists and staff activity, with exports.

WHAT IT IS MADE OF

FRONTEND
- Teacher mobile view
- Admin web app
- Offline-tolerant marking
- Role-based dashboards

CORE
- Records service
- Fee + instalment engine
- Attendance pattern detection
- Scheduler

SERVICES
- Node / Nitro APIs
- MongoDB
- Job runner
- Payment gateway integration

COMMUNICATION
- WhatsApp templates
- SMS fallback
- Quiet-hour rules
- Delivery receipts

NOTE 01
Attendance marking is offline-tolerant: a weak classroom signal queues locally and syncs when it returns, so a teacher is never blocked.

NOTE 02
Fee logic is data, not code — instalments, concessions, late fees and sibling discounts are configured per institute without a release.

NOTE 03
Every parent message is logged against the student record, so 'we were never informed' becomes a question with an answer.

08 — FEATURE DEEP DIVE

FEATURE DEEP DIVE — 1 OF 2

Every feature on the product page, taken apart: what it does, how we engineered it, and the business reason it exists.

Attendance tracking

WHAT IT DOES

A full batch marked in about two minutes from a phone, with corrections and an audit trail.

HOW WE BUILT IT

Default-present, tap-to-absent, offline-tolerant with background sync and pattern detection across the term.

WHY IT MATTERS

The daily record becomes reliable — and consecutive absences surface as an alert instead of a surprise.

Fee reminders

WHAT IT DOES

Scheduled, escalating reminders to parents with the exact amount, due date and a payment link.

HOW WE BUILT IT

The instalment engine computes dues nightly and triggers approved templates within your chosen hours.

WHY IT MATTERS

Collection stops depending on someone being willing to make an uncomfortable phone call.

Parent updates

WHAT IT DOES

Per-student WhatsApp updates: absence on the day, homework, test marks, fees and announcements.

HOW WE BUILT IT

Targeted messages against the guardian record with quiet hours, language preference and delivery receipts.

WHY IT MATTERS

Parents stay informed routinely, so contact stops being synonymous with a problem.

09 — FEATURE DEEP DIVE

FEATURE DEEP DIVE — 2 OF 2

The second half of the feature set — the parts that turn a working system into a compounding one.

Student records

WHAT IT DOES

One profile per student: admission details, guardians, batches, attendance, fees, marks and message history.

HOW WE BUILT IT

A records core linking every module to the same student entity, with role-based access to sensitive fields.

WHY IT MATTERS

Any staff member can answer any parent question in seconds, without hunting through four systems.

Homework notifications

WHAT IT DOES

Assignments posted once by a teacher reach every parent in the batch, on time, with the due date.

HOW WE BUILT IT

Batch-scoped dispatch against guardian records with scheduling, so evening posts arrive at appropriate hours.

WHY IT MATTERS

'I didn't know there was homework' stops being a valid answer, and teachers stop repeating themselves.

Reports

WHAT IT DOES

Live collections, defaulter lists, attendance trends, batch health and staff activity for management.

HOW WE BUILT IT

Aggregations computed from the records core, rendered as dashboards with scheduled exports.

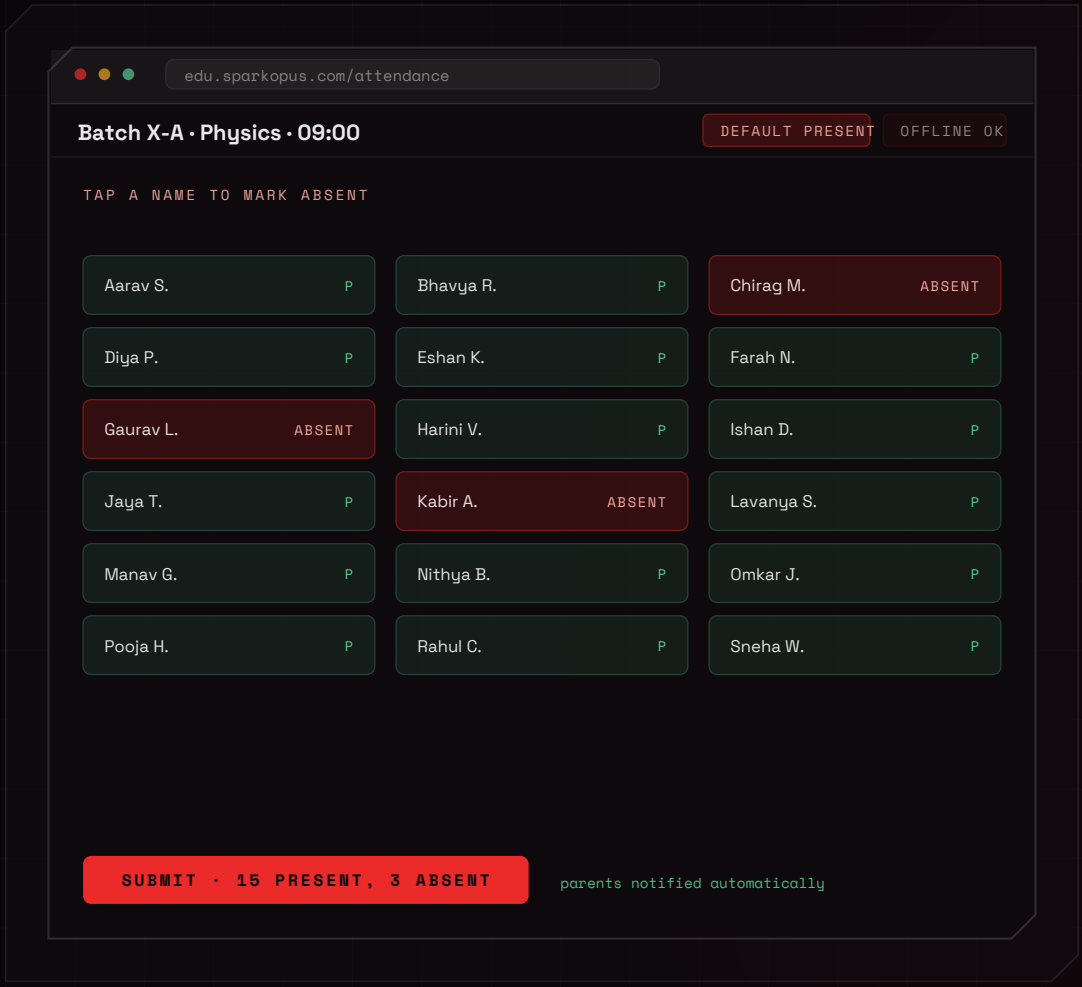
WHY IT MATTERS

Problems are visible in the week they occur, not in the month-end report where nothing can be changed.

10 — INTERFACE

WHAT IT LOOKS LIKE

The teacher's attendance screen: a full batch on one page, default-present, tap-to-absent, submitted before the lesson starts.



WHAT'S HAPPENING ON THIS SCREEN

Default present
Marking is a matter of tapping the exceptions, not confirming thirty children individually.

Works on weak signal
Marks queue locally and sync when the network returns; the teacher is never blocked.

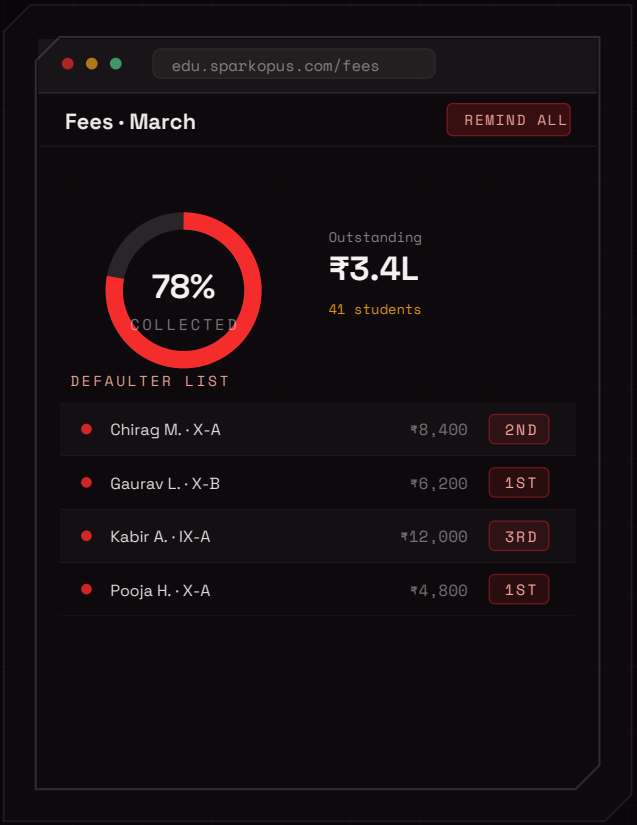
Parents notified automatically
Absences trigger a same-day message to that student's guardian — nobody makes a call.

Patterns surface
Consecutive absences raise a flag on the batch dashboard before they become a conversation.

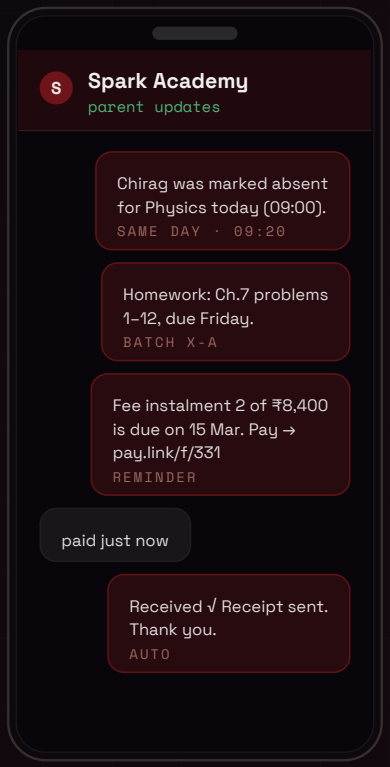
NOTE
These are design representations of the shipped interface. Final screens carry your brand, your terminology and your catalogue.

11 — INTERFACE

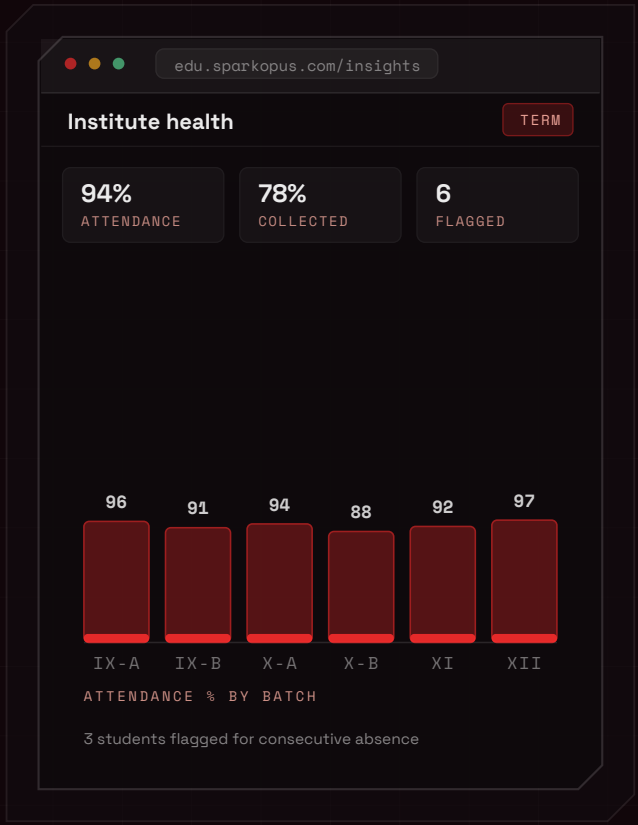
THE SUPPORTING SCREENS



01 Fee dashboard — collections to date, upcoming instalments and a live defaulter list with one-tap reminders.



02 Parent update — the WhatsApp message a guardian actually receives, per student, in their language.



03 Management view — attendance trends, batch health and collection performance, live rather than month-end.

12 — IN PRACTICE

A DAY IN THE LIFE

A single school day, from the first bell to the management dashboard at close — and the total administrative time it costs.

09:05

Attendance marked

Four teachers mark four batches from their phones. Total elapsed time across the institute: under ten minutes.

09:20

Parents informed

Absence messages go out to the guardians of the eleven absent students, in their preferred language.

11:00

A pattern surfaces

One student hits a third consecutive absence and is flagged to the batch coordinator automatically.

14:30

Homework posted

A teacher posts one assignment; every parent in the batch receives it with the due date.

17:00

Fee reminders

The instalment engine sends this week's due reminders with payment links, inside permitted hours.

18:00

Management reads the day

Attendance, collections and flagged students are on the dashboard — nothing was compiled by hand.

WHAT THAT ADDS UP TO

No register was copied, no reminder call was made, and no report was assembled. The administrative day cost the institute minutes rather than hours.

13 — TRUST

INTEGRATIONS, DATA & SECURITY

It has to fit the tools you already run, and it has to be safe with the data you are handing over. Both are product requirements, not afterthoughts.

COMMUNICATION

- WhatsApp Business Platform
- SMS fallback
- Email for documents

PAYMENTS

- Razorpay / PhonePe
- UPI links
- Receipt generation
- Reconciliation export

DATA

- Excel / CSV import
- Google Sheets export
- Existing student data migration

SPARK ECOSYSTEM

- Spark CRM for admissions
- Appointment of Opus for parent meetings
- Custom API

HOW YOUR DATA IS HANDLED

S1

Student data protection

Records are held for your institute alone, never shared or sold, and exportable or deletable on request.

S2

Role-based access

Teachers see their batches; accounts sees fees; management sees the institute. Sensitive fields are restricted.

S3

Quiet hours enforced

Parent messages only go out inside the windows your management sets — never late at night.

S4

Complete message log

Every communication sent home is recorded against the student, with delivery receipts.

14 — ROLLOUT

HOW WE GET YOU LIVE

We migrate at a term or month boundary and run parallel with paper for two weeks. Nothing about a live institute should be switched over abruptly.

W0

Kickoff

Batches, timetable, fee structure, instalments, concessions and message policy.

W1

Data load

Students, guardians and current fee status imported from whatever format you have.

W2

Teacher pilot

Two batches run live; we start with the least tech-comfortable teacher on purpose.

W2

Parallel run

Paper registers continue alongside for two weeks as a verified safety net.

W3+

Full rollout

All batches live, parent messaging enabled, management dashboards handed over.

WHAT'S INCLUDED, AT NO EXTRA COST

- Institute modelling workshop
- Teacher training (short, and repeated for new staff)
- Student and guardian data migration
- Management dashboard setup
- Fee structure and instalment configuration
- Two-week parallel-run support
- Parent message templates in your languages
- Term-boundary review and tuning

AND AFTER YOU'RE LIVE

Named contact

Someone who knows your batches, your fee cycle and your academic calendar.

New term setup

Batch rollovers, new admissions and fee revisions handled with you each term.

Teacher refreshers

Short training for new staff joining mid-term, at no extra cost.

15 — IMPACT & NEXT STEPS

WHAT GOOD LOOKS LIKE

~2 min
TO MARK A BATCH
Design target on a phone, including…

Same day
ABSENCE NOTIFICATION
Guardians informed on the day…

Nightly
DUES CALCULATION
Fee position recomputed every night, not…

0
DUPLICATE DATA ENTRY
The classroom mark is the only entry…

	HOW IT WORKS TODAY	WITH SPARK EDU-SYSTEMS
Attendance	Register, then copied to a sheet	Marked once on a phone, used everywhere
Absence follow-up	Noticed eventually	Parent informed the same day; patterns flagged
Fee reminders	Phone calls when there is time	Scheduled, polite, with a payment link
Parent communication	Only when something is wrong	Routine, per student, in their language
Management reporting	Assembled at month end	Live dashboards, exportable any day

These are engineering targets we design and monitor against, not a guarantee of institutional outcomes. Current admin time, collection timing and attendance capture are baselined in the first fortnight.

PRICING

Monthly Full institute system with onboarding and migration included. No lock-in.

Yearly Discounted, aligned to your academic year, with per-term review and setup support.

Scale Priced by institute size; multi-branch configurations available — contact sales.

NEXT STEPS

01 Discovery call
Twenty minutes on your batches, fee cycle and where admin time actually goes.

02 Institute model
We write down how your term, timetable and fees really work and confirm it.

03 Pilot batches
Two live batches with your real students, marked by your real teachers.

04 Term cut-over
Full migration at a clean boundary, with two weeks of parallel running.

Your least tech-comfortable teacher will mark a real batch in under two minutes before you are asked to commit to anything.

hello@sparkopus.ai
sparkopus.com/contact — or tap “Call back in 2 mins”