

Team SkyLine

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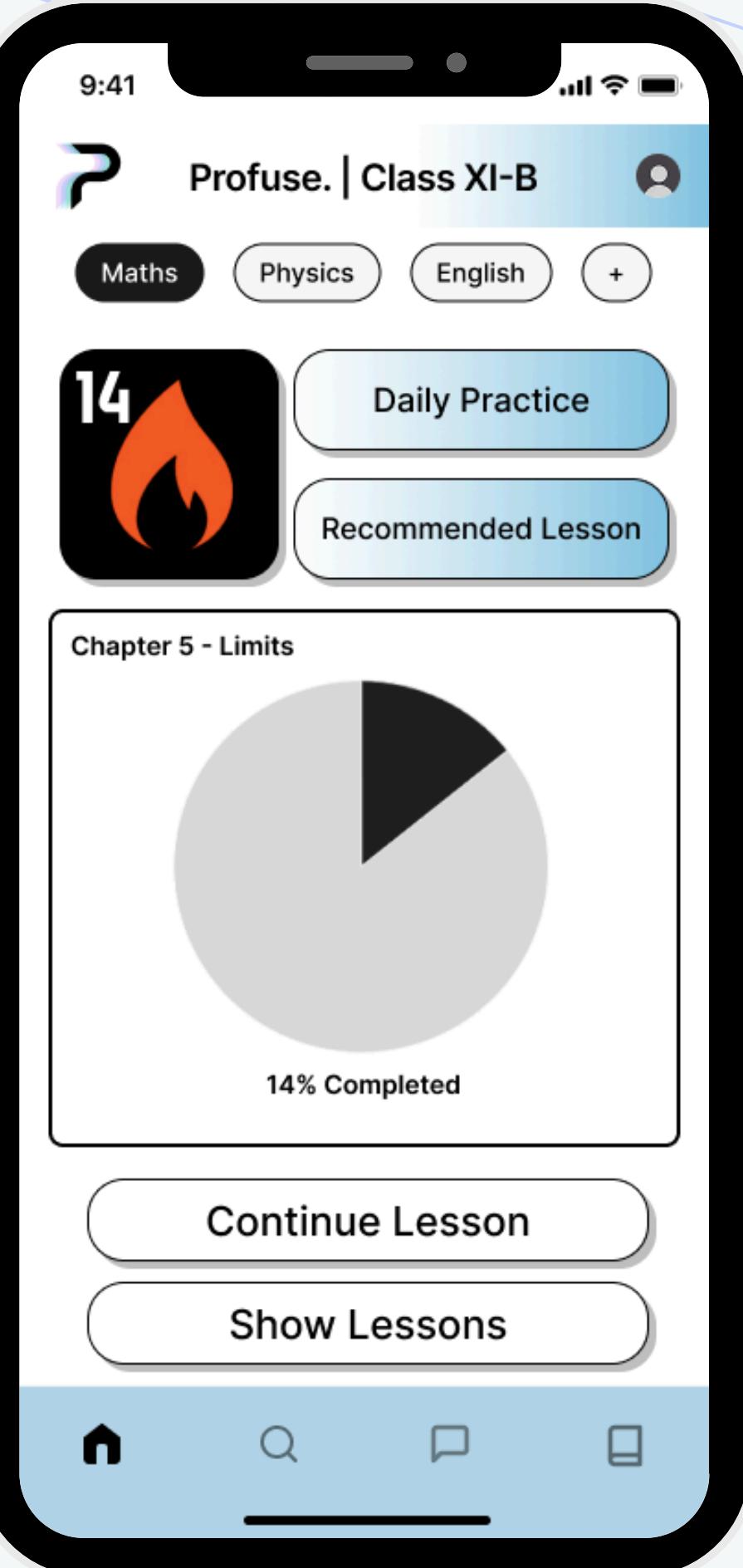
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Context

We discovered the need for Profuse through a school-wide survey and daily classroom observation: students routinely report feeling unprepared for real-world demands and unsupported when they fall behind. This local diagnosis mirrors international findings: major reports argue that education systems must better align with evolving skills demands and reduce fragmentation between curriculum, assessment and real-life learning. OECD analysis highlights persistent inequities and the need for policy change to make systems more responsive, while global skills reports call for “skills-first” approaches to bridge the gap between education and work. Thus, Profuse directly addresses these challenges through a platform built around two complementary modules:

- **Personal Mode** offers personalized lessons, adaptive learning paths, and a 24/7 curriculum-aligned AI tutor.
- **School Mode** enables teachers to track progress, automatically generate assessments, and intervene early when difficulties appear.

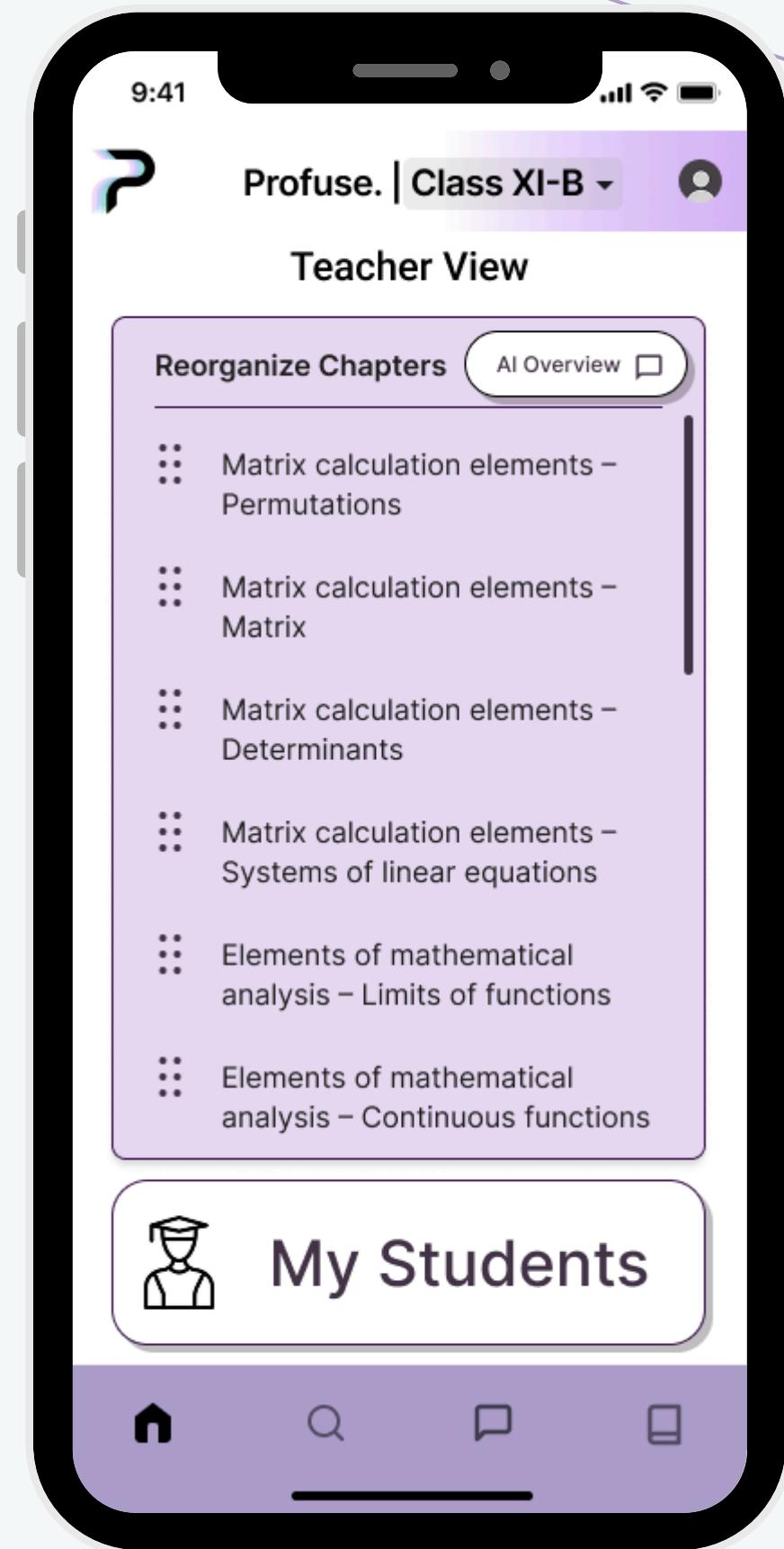
By combining retrieval-augmented AI with teacher oversight, Profuse becomes a scalable, equitable, and future-ready solution.



Benefits

Profuse serves two primary groups with focused, measurable benefits:

- **Secondary school students (ages 12–18):** They gain a 24/7, non-judgmental AI tutor that answers questions anytime and adaptive lessons that respond to both mastery and confidence, reducing anxiety, improving retention, and supporting independent study.
- **Teachers:** They gain an AI assistant that continuously monitors progress, flags struggling learners, and streamlines scheduling and test management, freeing time for targeted instruction.



Why it matters

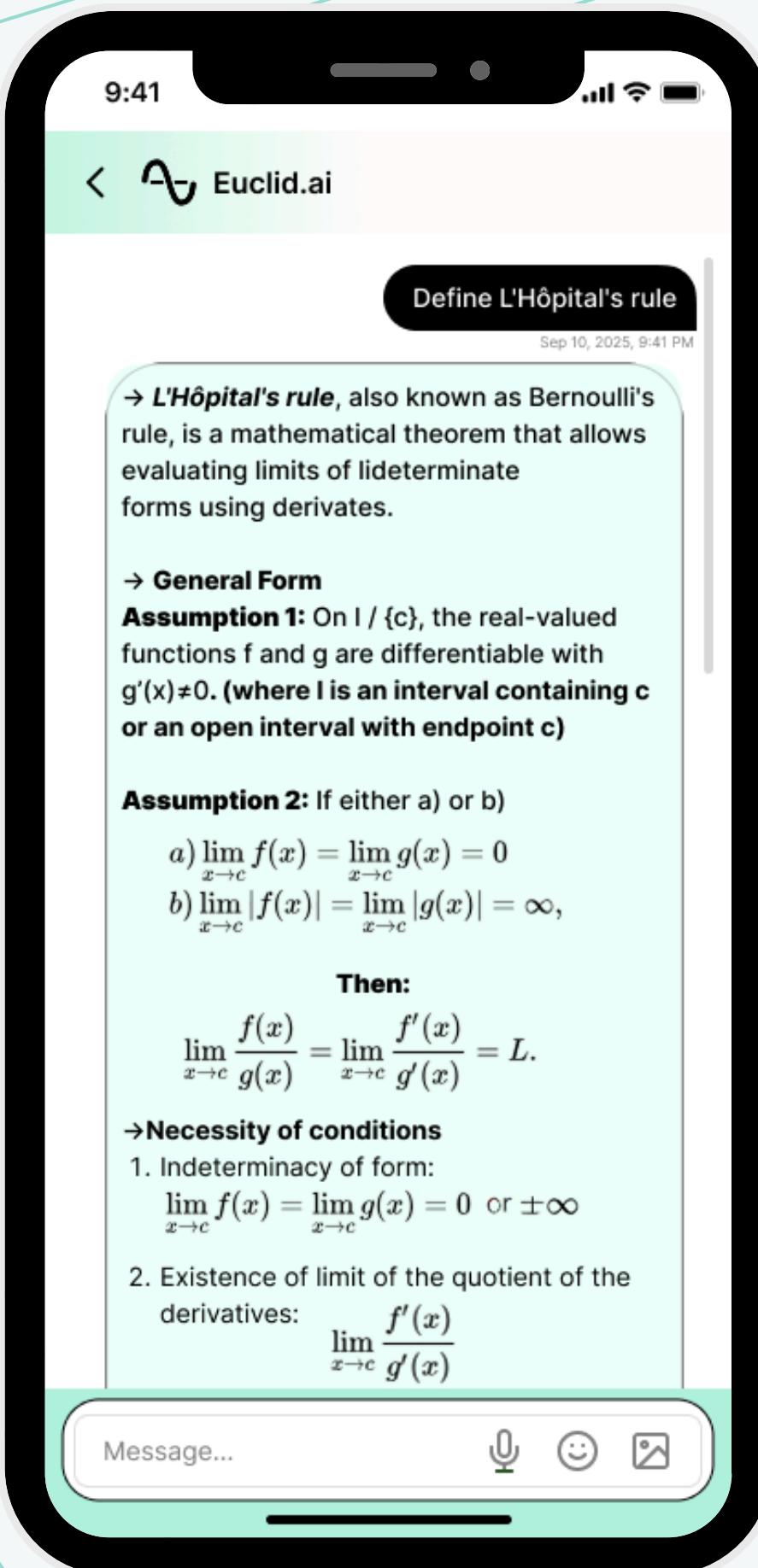
Profuse directly addresses the two core problems schools report: lack of round-the-clock student support and chronic teacher time scarcity. By centralizing support and automating routine tasks, the platform shortens the feedback loop and enables earlier, more precise interventions.



Engagement strategy

Students are drawn by low-pressure gamification (streaks) and a calm, helpful chatbot; teachers are engaged through co-design workshops that ensure Calendar and Test modules are practical, intuitive, and classroom-ready.





Impact

Profuse introduces a free, curriculum-aligned AI tutor available 24/7, reducing dependence on paid tutoring and remedial classes. It accelerates learning through instant explanations and adaptive pathways, boosting performance and engagement.

Profuse measures its impact through clear Key Performance Indicators:

- **Students:** improved grades (pre/post), faster mastery, and higher participation thanks to personalized support.
- **Schools:** increased attendance, detailed in-app activity and performance metrics, and major reductions in paper use through full digitalization of homework, assessments, and worksheets.

- **Families & Teachers:** continuous feedback that shapes platform improvements and ensures meaningful support.

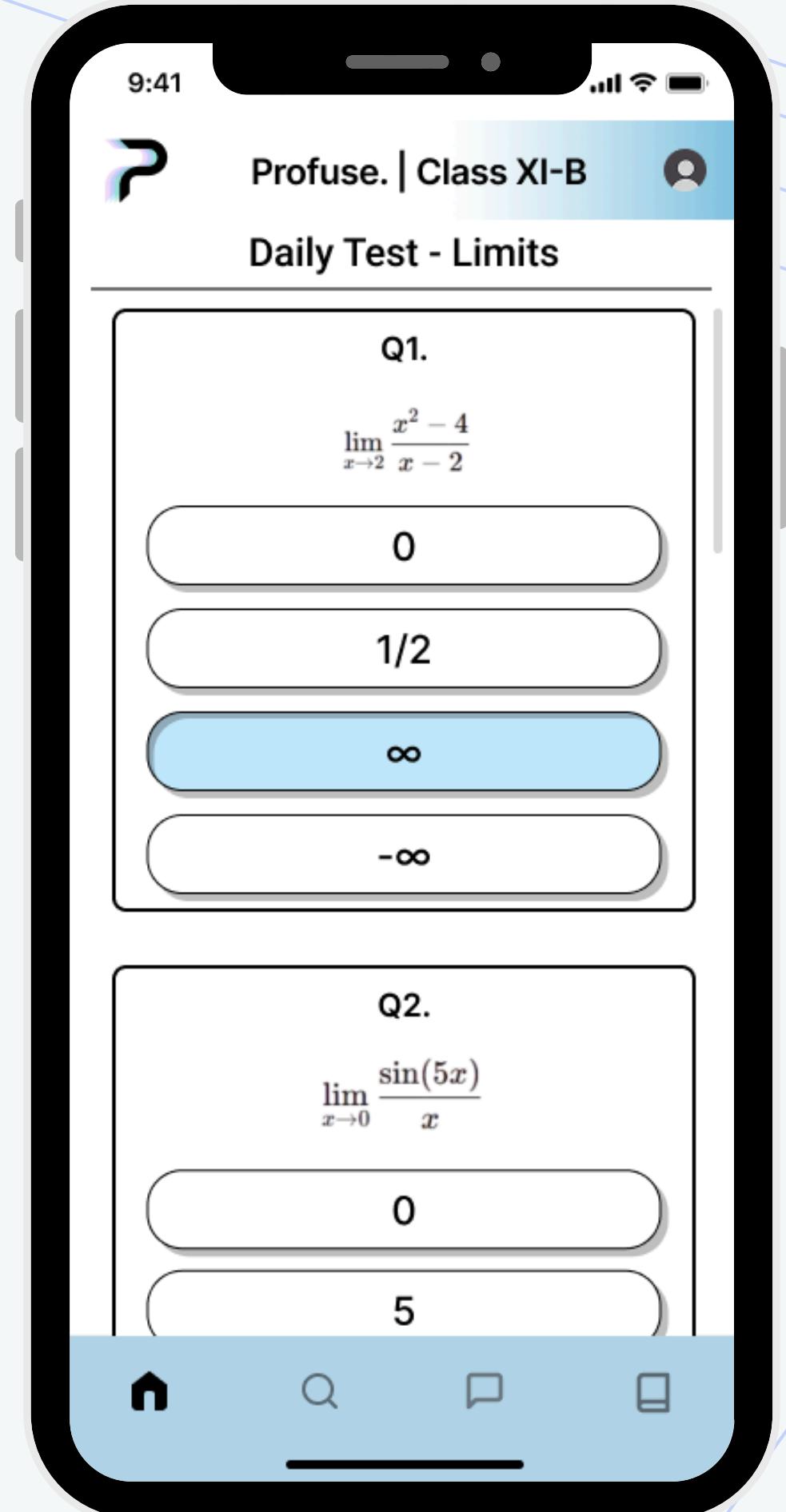
Profuse's goal is to make learning more effective, more accessible, and more sustainable for every student.

Innovativeness

Profuse is distinctive because it integrates proven educational technologies into a single, school-centered ecosystem while adding system-level features designed for measurable equity gains and institutional adoption.

Its originality rests on three pillars:

- 1. Resource centralization as a single school app.** Profuse consolidates textbooks, supplementary materials, assignments, tests and class records into one platform. Schools can replace multiple point solutions with a single, unified tool, reducing procurement and technical fragmentation.
- 2. Adaptive learning that models confidence as well as knowledge.** The adaptive engine personalizes learning paths using both mastery signals and confidence indicators (e.g., response time, hesitation), enabling interventions that reduce anxiety and address root causes of errors.
- 3. Human-centered, low-pressure gamification.** Engagement uses “streaks” to build daily routine and an anonymous leaderboard (points only) to encourage friendly competition without public shaming, designed to increase practice while preserving academic seriousness.

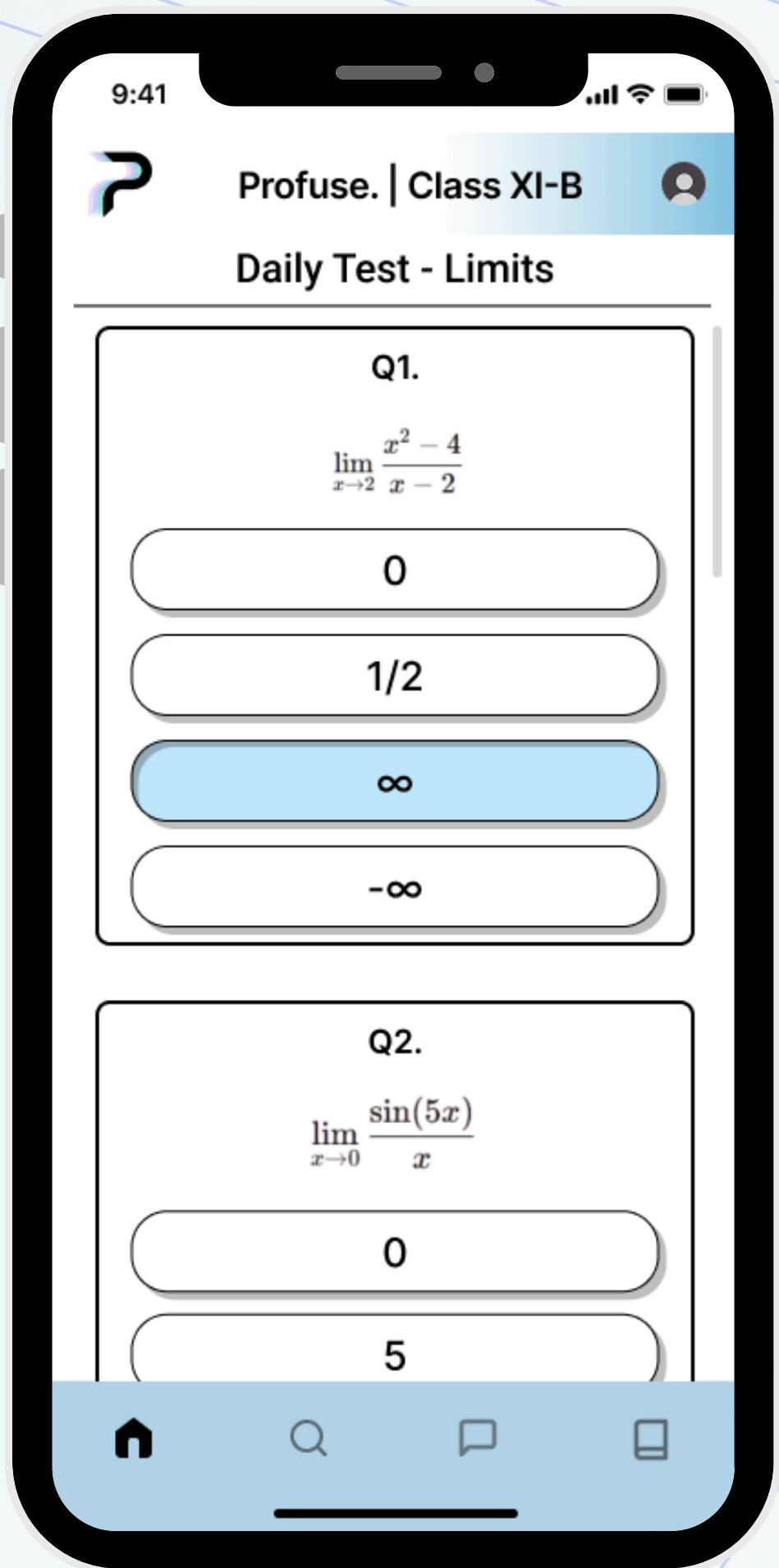


Why Profuse is uniquely adoptable by students and schools ?

Beyond its component innovations, Profuse is behaviorally unique: it's the learning app that students want to use. Its design balances game-like engagement with low pressure, so learners use it voluntarily (not because parents or schools force them).

This voluntary adoption drives sustained practice, which in turn reduces dependence on paid remedial lessons. Teachers benefit because the platform reduces administrative load (test creation, grading) and minimizes the need for separate remedial classes.

Teachers can spot problems earlier and more precisely. Students can quickly identify and remediate weak points at any time, and the platform exposes the full school ecosystem (lessons, tests, competitions, olympiads, calendars, vacations, events) in one transparent place.



Transferability

Profuse's core framework: **Adaptive Engine + Curriculum-aware Chatbot + Admin/Teacher Panel**, is designed to be transferable across levels and institutions by separating pedagogy/content from platform infrastructure.

Reusable parts:

- Adaptive Engine (item selection, mastery & confidence modeling);
- Curriculum-aware Chatbot;
- Admin Panel & Analytics;
- Feedback;
- Gamification & Engagement UX.



Transferability

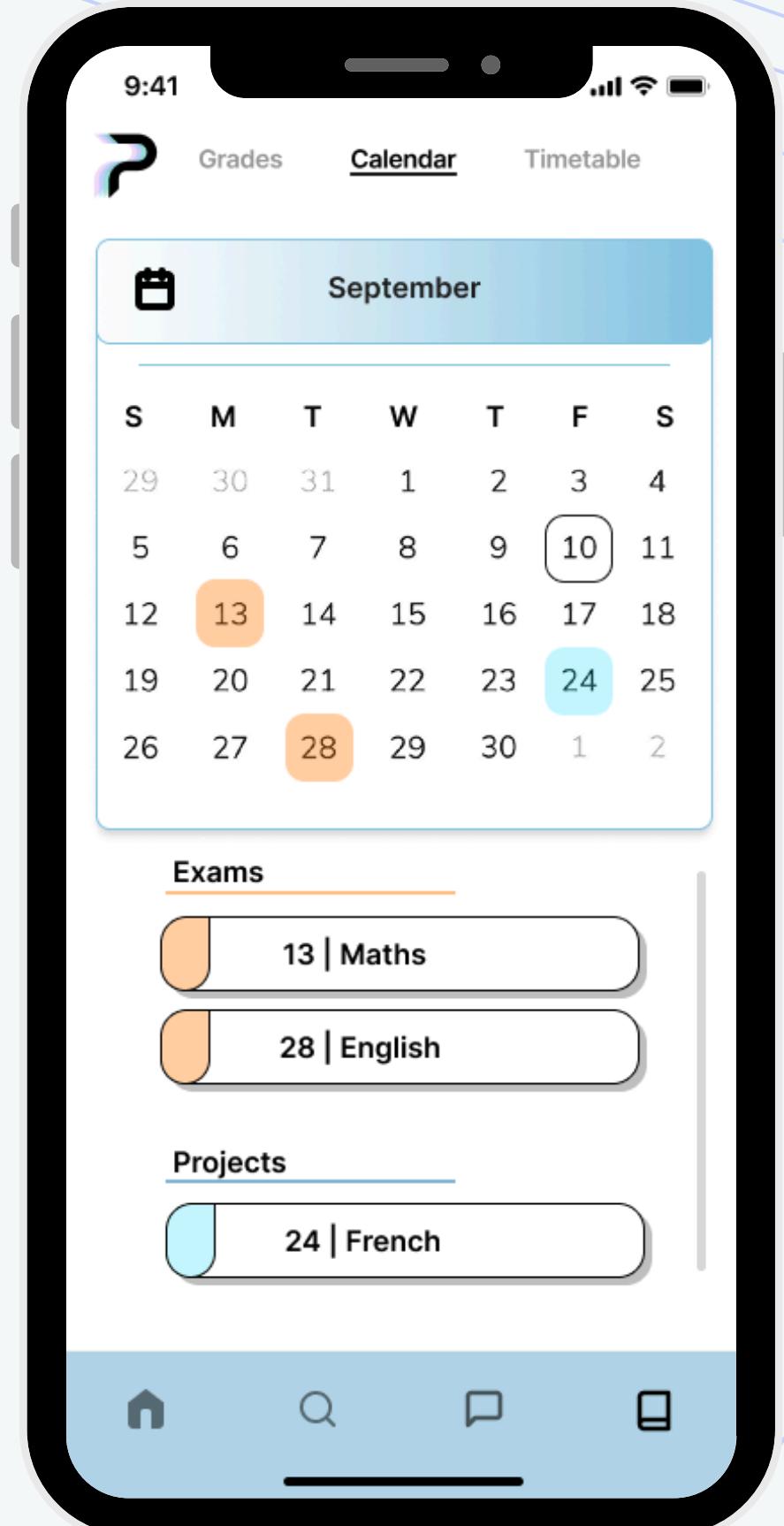
High reusability

- Modular architecture, content APIs and intuitive UX speed onboarding.
- Helps when introducing new subjects and adapting for different countries.

Practical requirements

Content mapping, domain fine-tuning, assessment templates and scanning rules, expert validation cycles, systems integration and ethics/compliance.

Domain extensions (medical, vocational reskilling, corporate onboarding) are straightforward as the AI can be trained on institutional resources.



Sustainability

Profuse is built for long-term sustainability through a **Freemium + B2B** model focused on educational equity. The **Personal Mode** includes adaptive lessons and the curriculum-aware AI tutor, which stays free for all students, while **School Mode** (Teacher Panel, Calendar, Test Assignment) is licensed to institutions.

For every 50 institutional licenses, Profuse awards scholarships to the top 10 disadvantaged students on the leaderboard, ensuring impact reaches vulnerable communities.

Our Vision:

- **0-6 months:** finalize content with Ministry/teacher approval, run pilots, refine the full app.
- **1-2 years:** onboard ~20 schools, secures the “**Ministry of Education and Research**” validation, show system-level gains.
- **3-5 years:** establish Profuse as a standard adaptive layer in schools and expand across Europe.

Additional features

Integrated Calendar:

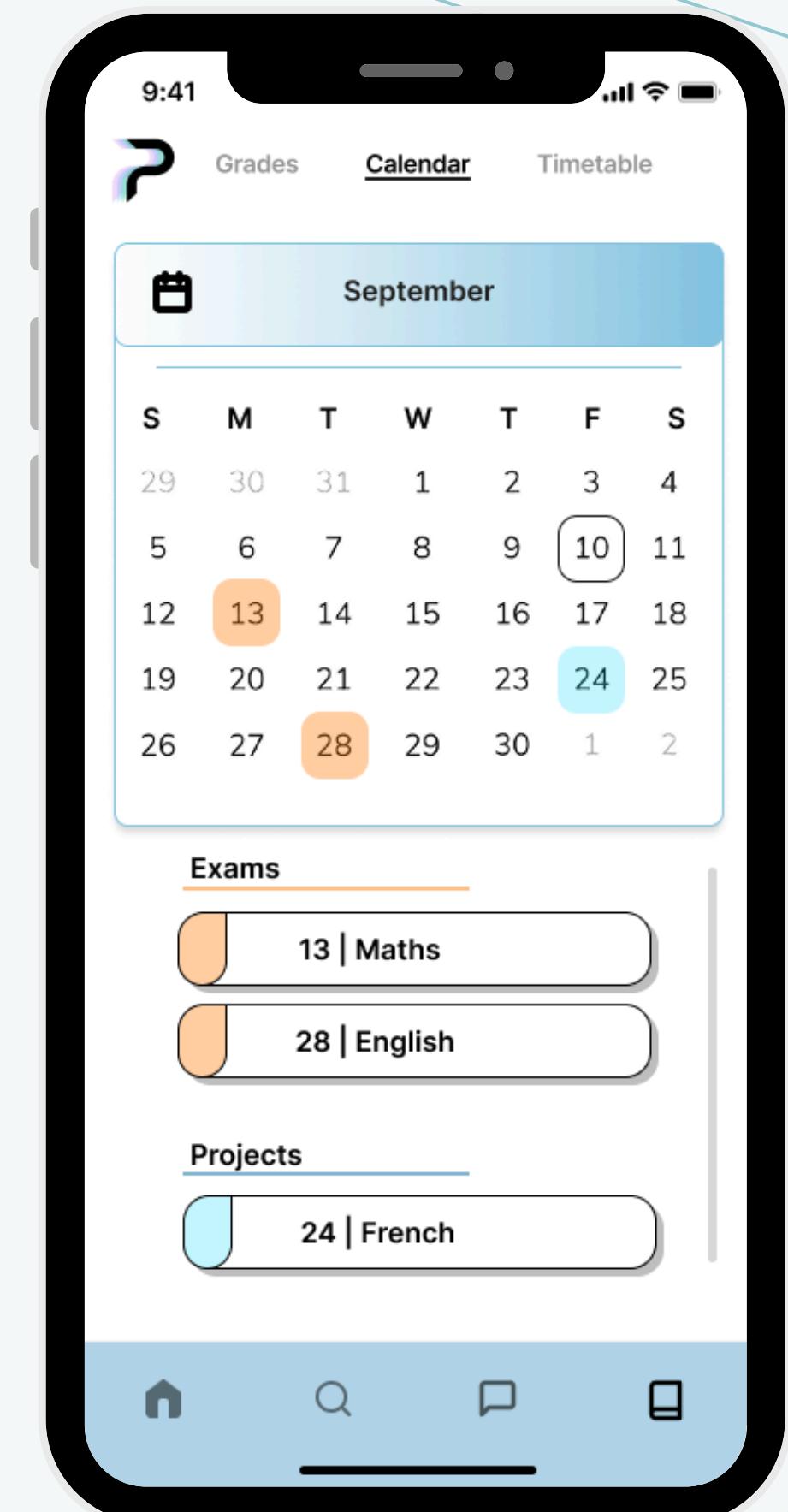
- Syncs for both students and teachers, showing test dates, assignment deadlines, and lesson goals.

Technologies:

- Adaptive learning algorithms, Natural Language Processing (NLP) for the chatbot, sentiment/confidence analysis, cloud infrastructure.

Objectives

- To decrease student anxiety, increase daily engagement, provide 24/7 academic support, and save teachers administrative time.



Target group

1. **Primary: Secondary Students (Ages 12-18):** They benefit from a 24/7 AI tutor (the chatbot) that answers questions without judgment, and lessons that adapt to their confidence, reducing anxiety.
2. **Secondary: Teachers:** They benefit from a powerful 'AI assistant' that saves time by monitoring progress, highlighting struggling students, and managing schedules/tests via the calendar.

It is relevant because it solves their two biggest problems: lack of 24/7 support (for students) and lack of time (for teachers).

Engaging Students:

- The gamification ('streak') and the non-judgmental AI chatbot will be the primary engagement drivers.

Engaging Teachers:

- We will engage them via co-design workshops to ensure the Calendar and Test modules are genuinely useful and easy to use.

Team work



Blidaru David-Ştefan



Cojocaru David-Andrei



Oprea Vasile-Sebastian



Ene Andres-Ioan



Andrușcă Eric-Mihai

Why We Are the Perfect Team

Our team is a dedicated, balanced unit with complementary roles essential for success: strategic leadership (Oprea Vasile-Sebastian), pitch & communication (Cojocaru David-Andrei), research & validation (Ene Andres-Ioan), concept & product development (Blidaru David-Ştefan), and presentation / UX design (Andrușcă Eric-Mihai). This 360° structure covers strategy, research, product, design and communication.

Profuse rests not only on the current team but also on future team members, teacher/mentors, partner schools, and, crucially, the users themselves: students, parents and teachers. The platform is not intended for a single user; it is sustained by our team and supported by school staff, while constantly enriched by user contributions in a strong, reciprocal community. This community-driven model ensures local relevance, faster adoption, continuous content improvement, and shared ownership of impact.

Website

<https://euxinian.github.io/Profuse/>