CASE STUDY · SOLO PRODUCT BUILD · 2026

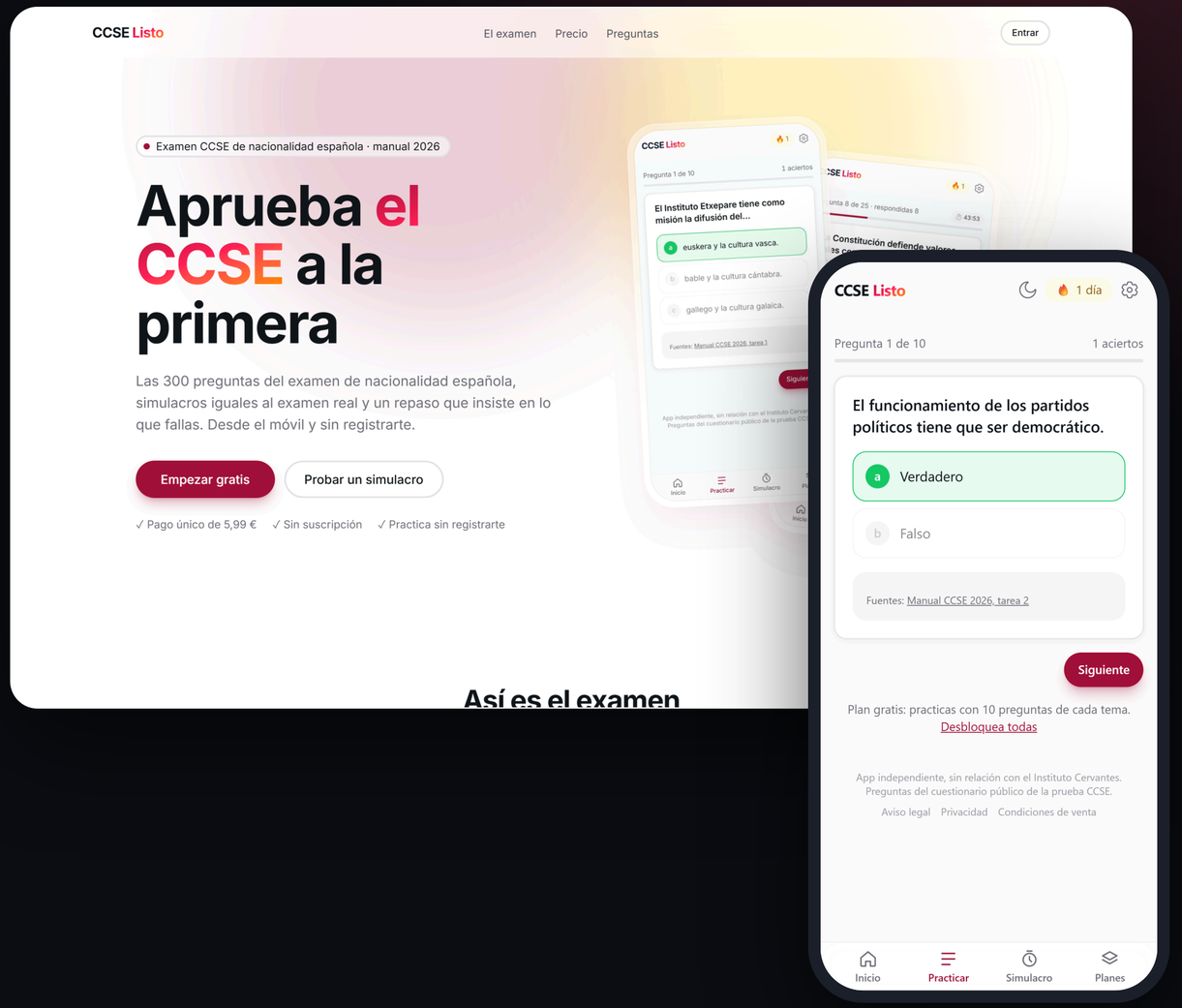
CCSE Listo

Exam-prep web app for the Spanish citizenship test, from idea to paid launch

React · TypeScript · Supabase · PostgreSQL · Stripe · Tailwind · Netlify

300	€5.99	Live
Official questions	One-time unlock	ccselisto.es

See the app inside →



Ignacio Lizana · Senior Full-Stack Engineer

Own product · built with Claude Code

CCSE LISTO

The product

Spanish citizenship applicants must pass the CCSE: 25 questions in 45 min from a 300-question bank.

THE NEED

- The official bank is published as a PDF manual
- Candidates need to rehearse the real timed format
- Wrong answers must come back until they stick
- Most study on their phone, in short sessions

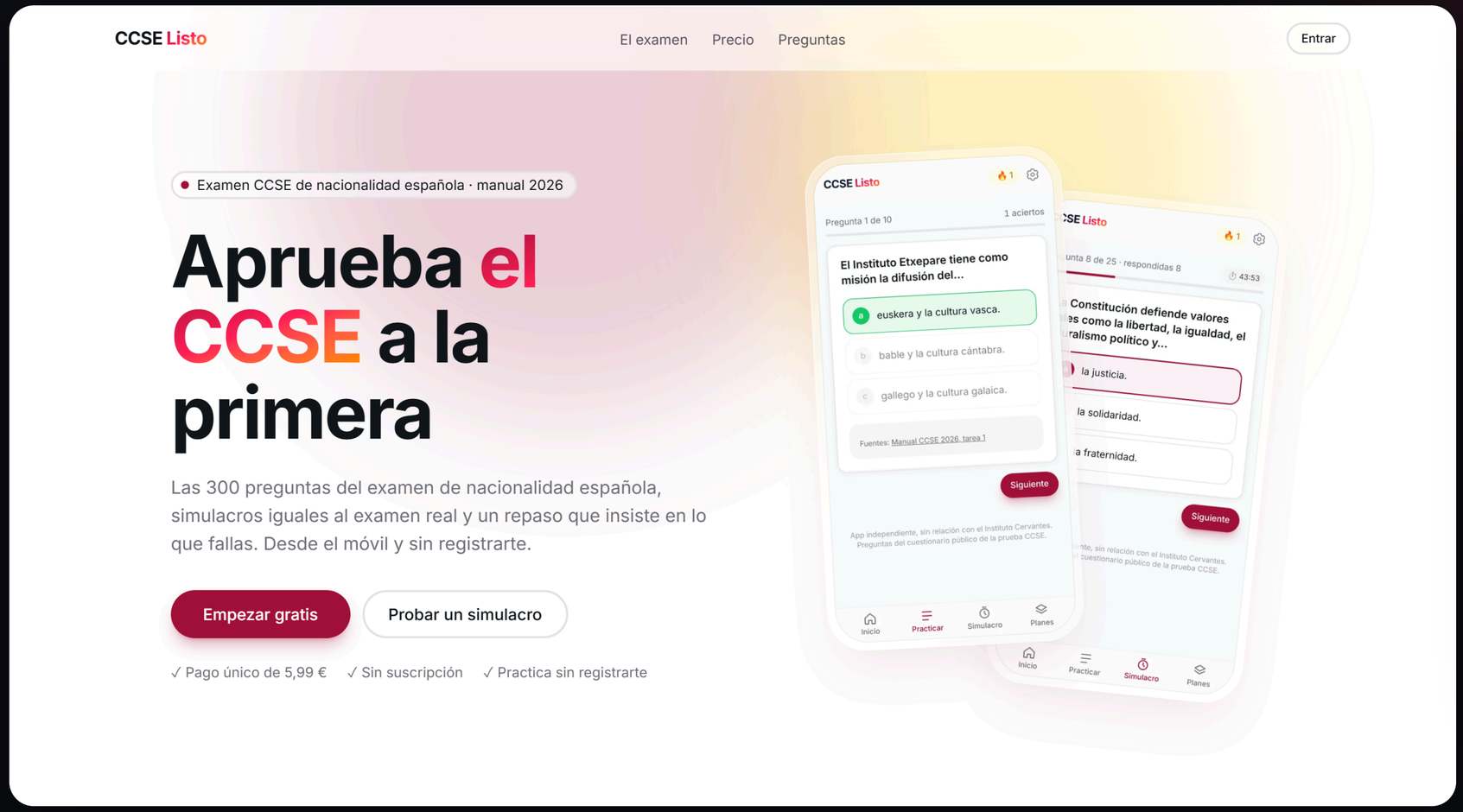
WHAT I BUILT

- Practice rounds with instant feedback and sources
- Timed mock exams that mirror the real test
- "Misses loop" and spaced-repetition review
- Free tier + €5.99 one-time unlock via Stripe

CCSE LISTO

SEO-ready marketing landing

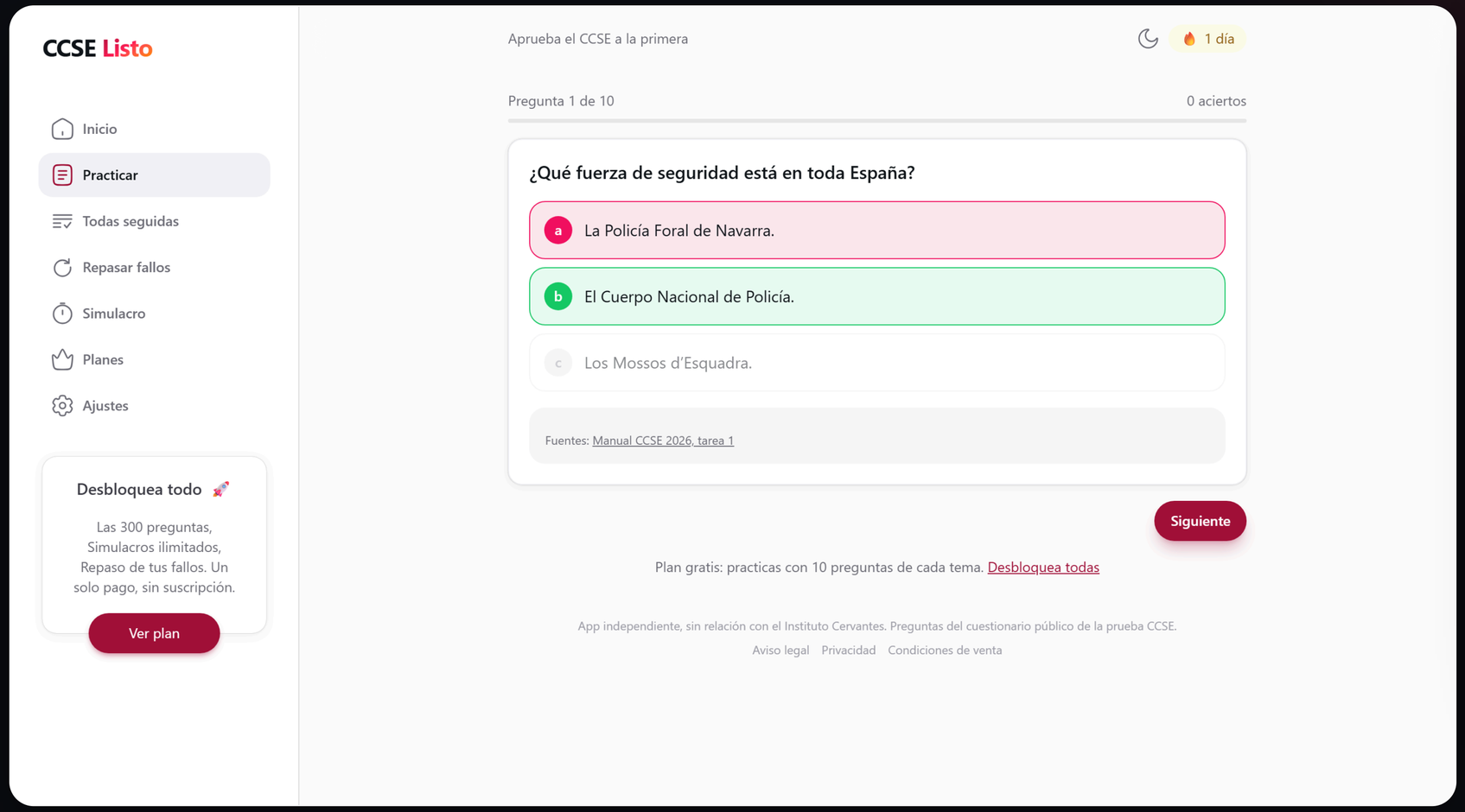
Prerendered for Google, with social previews, sitemap and Search Console.





Practice with instant feedback

Rounds of 10, unseen first. The right answer and its official source show up at once.





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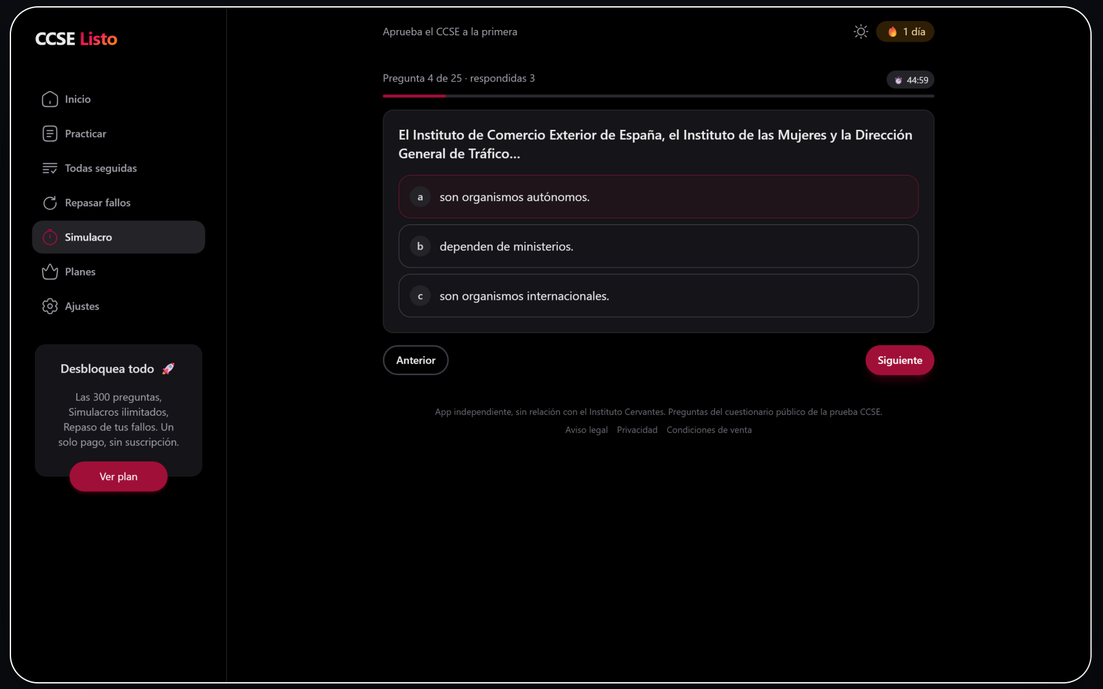
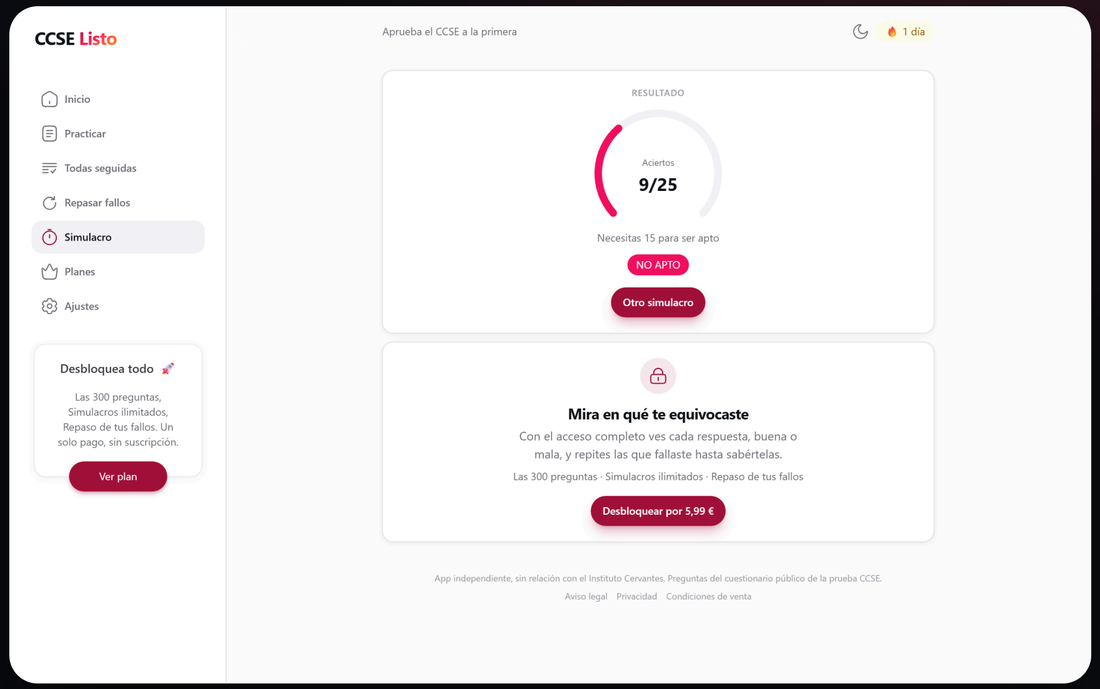
Timed mock exam

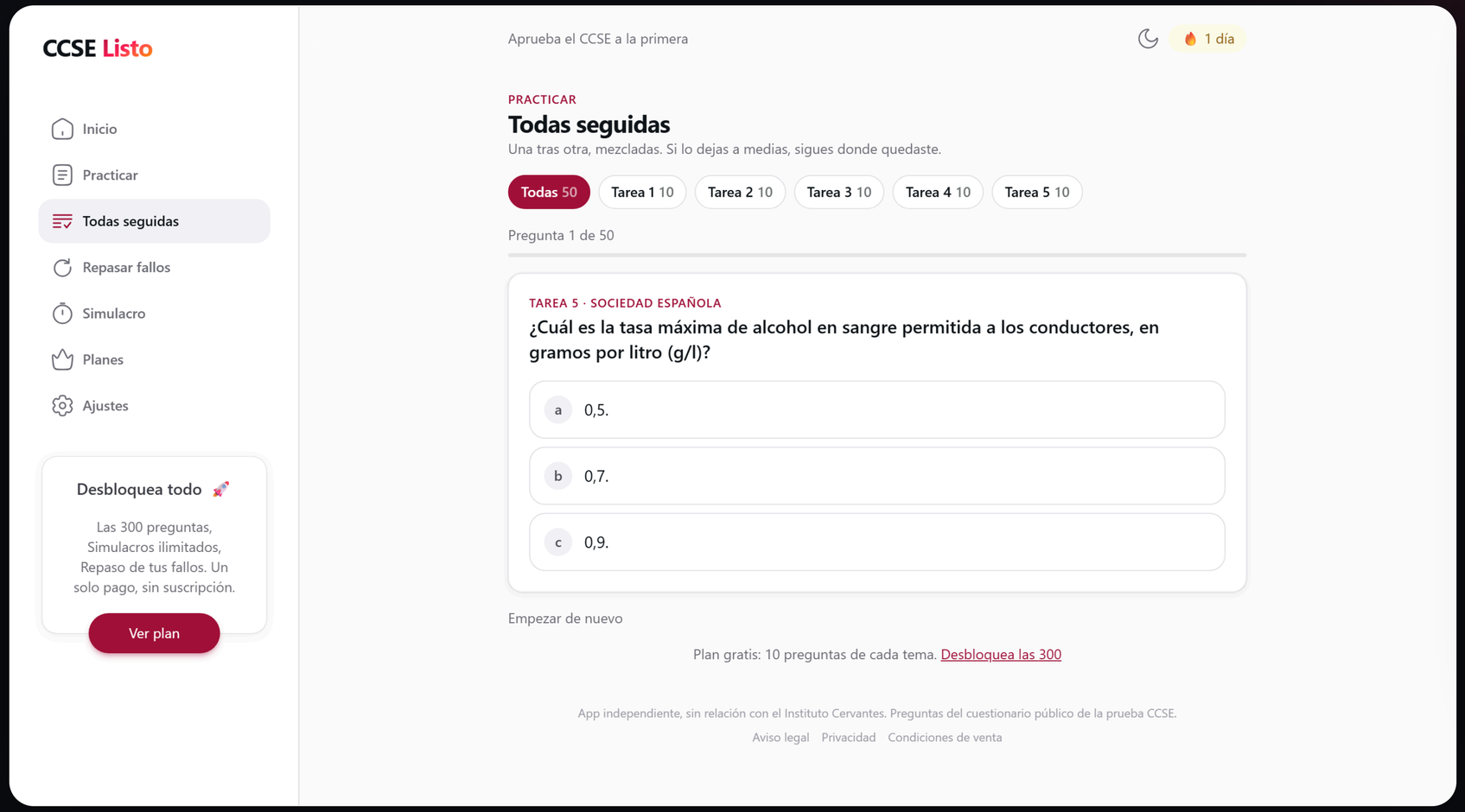
25 questions, 45-min countdown, pass mark 15. Free users see the score; the review is paid.





All 300 in a row · the misses loop

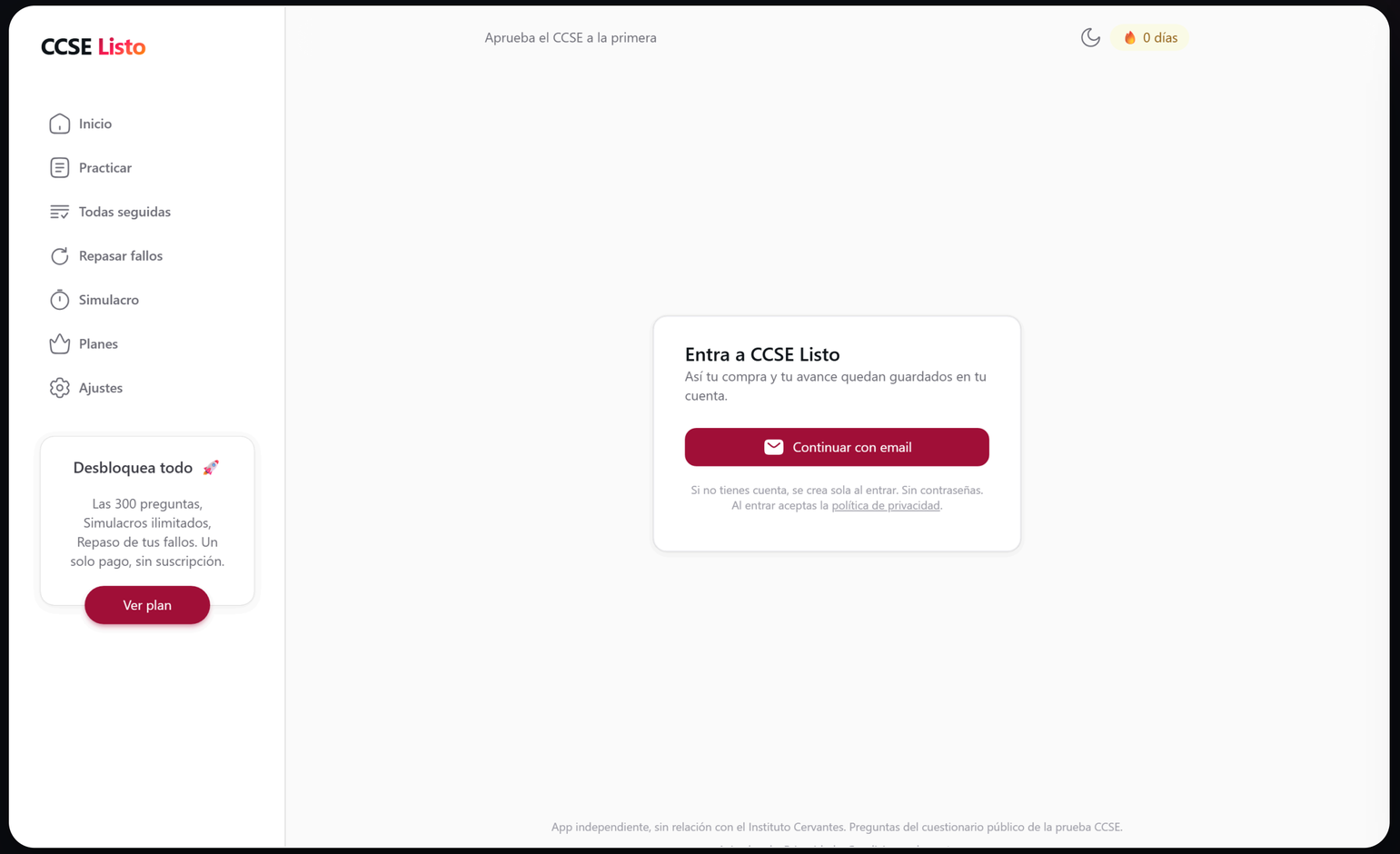
The whole bank, then only your misses, then the misses of the misses, until none are left.

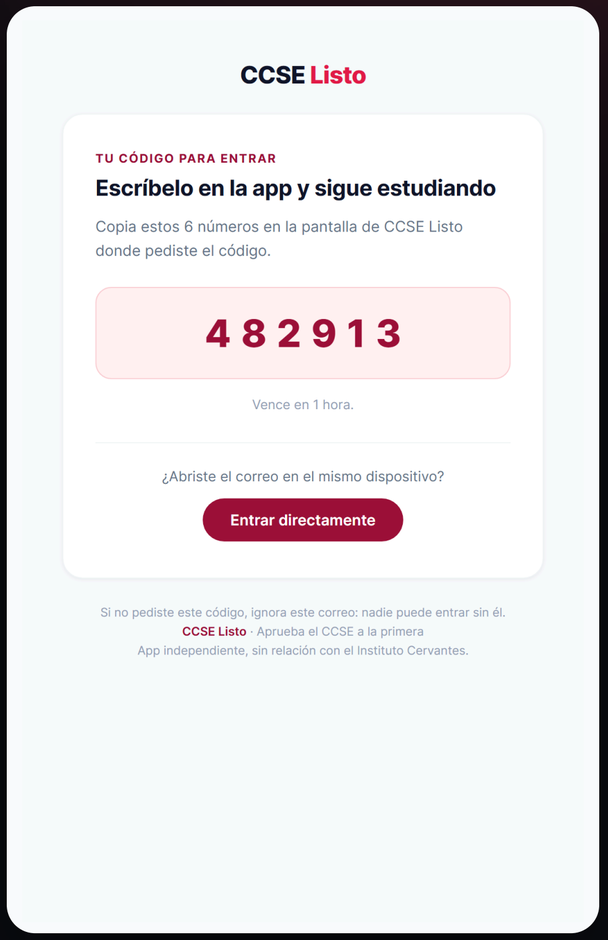




Passwordless sign-in

6-digit email code via Supabase Auth, sent from the product's own domain through Resend.





CCSE LISTO

One-time payments with Stripe

Purchases are tied to the account, so access unlocks instantly and on every device.

STEP 1

Checkout session

A Supabase Edge Function verifies the signed-in user and opens Stripe Checkout.

→

STEP 2

Signed webhook

`stripe-webhook` checks the HMAC signature before trusting any event.

→

STEP 3

Unlock

A purchase row protected by Row Level Security: each student can only read their own.



Tested end to end in Stripe test mode before switching to live keys. Includes EU consent for digital content (withdrawal right) and self-service account deletion.

CCSE LISTO

One codebase, many exams

A white-label exam platform: CCSE Listo is one vertical; other exams reuse the same engine.

CORE

Quiz engine in TypeScript: rounds, mock exams, spaced-repetition review, unit tests.

VERTICALES

Per-exam config: content, branding, pricing, free-tier limits, SEO.

WEB

React 19 + Vite, HeroUI, Tailwind 4, dark mode, mobile-first, prerendered landing.

SUPABASE

Postgres with RLS, Auth (email OTP), Edge Functions for payments and account deletion.

INFRA

Netlify hosting + HTTPS, Resend SMTP, custom domain DNS, Google Search Console.

WORKFLOW

Designed and shipped solo with Claude Code (agentic coding) and MCP browser automation.

Mobile-first, with dark mode

Bottom tabs on phones, sidebar on desktop. Follows the system theme, one-tap toggle.



