

Total Operating Costs & Launch Strategy

Every real bill we pay to run Sola — app infrastructure, business tools, APIs, and hosting — with growth projections from 0 to 10,000 users.

Prepared for: Sola Team

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Stack: React Native (Expo) + Supabase + PostHog + Sentry

Business Tools: Google Workspace + Lovable + Figma + Notion

Executive Summary

Sola's total monthly operating cost is split between **app infrastructure** (scales with users) and **business overhead** (fixed costs we pay regardless of user count). Here's the full picture.

\$422

100 USERS/MO

\$447

1,000 USERS/MO

\$462

5,000 USERS/MO

\$500

10,000 USERS/MO

BUSINESS OVERHEAD (FIXED)

~\$422/mo

Google Workspace, Lovable, AI tools (Claude, ChatGPT, Gemini), Figma, Notion, domain, Apple Dev. Does NOT scale with users.

APP INFRASTRUCTURE (VARIABLE)

\$8 → \$80/mo

Supabase, PostHog, Sentry, Expo Push. Scales with users — but very slowly for a text-heavy app.

BOTTOM LINE

Total burn at 10,000 users: ~\$500/month. Business overhead (\$422) dwarfs infrastructure (\$80). AI tools alone (\$280/mo) cost more than everything else combined. Even at zero users, we're paying \$422/mo to operate. The app infrastructure itself is remarkably cheap.

1. Every Bill We Pay

Every service, subscription, and API that costs money — or will cost money — organized by whether it scales with users or not.

A. Business Overhead (Fixed — Paid Regardless of User Count)

| SERVICE | WHAT IT'S FOR | MONTHLY COST | NOTES |
|--------------------------------------|---|------------------|---|
| Google Workspace (Business Standard) | Team email (@solatravel.app), Drive, Calendar | \$42 | 3 users × \$14/user |
| Lovable | Marketing website hosting | \$20 | Custom domain, landing pages |
| Apple Developer Program | iOS App Store distribution | \$8.25 | \$99/yr amortized |
| Domain registration | solatravel.app (or similar) | ~\$1.50 | ~\$15-18/yr amortized |
| Figma | UI/UX design | \$15-45 | 1-3 Pro seats at \$15/user. Free tier works for 1 person with ≤3 files. |
| Notion | Docs, roadmap, internal wiki | \$20-30 | Team plan: 2-3 users × \$10/user. Free tier works for solo. |
| Canva | Social media graphics, ASO assets | \$0-13 | Free tier may be enough. Pro = \$13/mo. |
| Social media scheduler | Buffer / Later / Typefully | \$0-15 | Free tiers often enough for launch. |
| AI & DEVELOPMENT TOOLS | | | |
| Claude (Anthropic) | AI development, code, strategy | \$200 | Max plan or multi-seat Pro |
| ChatGPT (OpenAI) | Writing, research, team productivity | \$60 | 3 users × \$20/user (Plus) |
| Google Gemini | AI assistant, research | \$20 | 1 Advanced seat |
| Business overhead subtotal | | \$387-455 | Mid estimate: ~\$422/mo |

B. App Infrastructure (Variable — Scales with Users)

| SERVICE | WHAT IT'S FOR | COST AT 100 USERS | COST AT 10K USERS |
|--------------------------------|---|-------------------|------------------------|
| Supabase (Free → Pro) | Database, auth, storage, realtime, edge functions | \$0 | \$25 + \$5-15 overages |
| PostHog | Product analytics (~40 events) | \$0 | \$0-30 |
| Sentry | Error tracking, crash reports | \$0 | \$0-26 |
| Expo Push Notifications | DM push notifications | \$0 | \$0 |
| Unsplash | Editorial hero images (hotlinked) | \$0 | \$0 |
| Infrastructure subtotal | | \$0 | \$30-80 |

C. API & Development Costs (Occasional / One-Time)

| SERVICE | WHAT IT'S FOR | MONTHLY COST | NOTES |
|-------------------------|---|--------------|--|
| Google Places API | Seeding place data (restaurants, stays, activities) | \$0 | \$200/mo free credit from Google Cloud. Used only in scripts, not in production app. One-time seeding cost per new city. |
| Pexels API | Stock photos for place galleries | \$0 | Free tier. Used in seeding scripts only. |
| Unsplash API | Fallback images for seeding | \$0 | Free tier (50 req/hr). Production images are hotlinked, not API calls. |
| EAS Build (Expo) | iOS/Android builds | \$0 | Free tier: 30 builds/mo. Plenty for pre-launch. Beyond: \$99/mo. |
| Claude Code / AI tools | Development assistance | Variable | Development cost, not operational. Stopped when shipping stops. |
| API/Dev subtotal | | \$0 | Free tiers cover us through 10K users |

GOOGLE PLACES API — WATCH THIS

Google gives \$200/mo free credit for Cloud APIs. Our seeding scripts use Place Details + Place Photos. Each new city seeded costs ~\$5-15 in API calls (one-time). **As long as we're seeding <15 new cities per month, it's free.** But if we do a big content push across 30+ cities at once, we could exceed the free credit. Batch content seeding carefully.

2. Total Monthly Burn at Each Scale

Business overhead + app infrastructure = what we actually spend each month.

100 Users — Soft Launch / Beta

| CATEGORY | SERVICE | MONTHLY COST |
|---------------------------|--------------------------------------|---------------|
| BUSINESS OVERHEAD | | |
| Email & Workspace | Google Workspace (3 users, Standard) | \$42 |
| Website | Lovable | \$20 |
| App Store | Apple Developer | \$8.25 |
| Domain | Domain registrar | \$1.50 |
| Design | Figma (1 Pro seat) | \$15 |
| Productivity | Notion (Team, 3 users) | \$30 |
| Social | Canva Free + Buffer Free | \$0 |
| AI & DEVELOPMENT TOOLS | | |
| AI (Development) | Claude Max / Pro | \$200 |
| AI (Team) | ChatGPT Plus (3 seats) | \$60 |
| AI (Research) | Google Gemini Advanced | \$20 |
| APP INFRASTRUCTURE | | |
| Backend | Supabase Free | \$0 |
| Analytics | PostHog Free | \$0 |
| Errors | Sentry Free | \$0 |
| Push | Expo Push (free) | \$0 |
| APIs | Google Places (\$200 free credit) | \$0 |
| Total Monthly Burn | | ~\$397 |

1,000 Users — Post-Launch

| CATEGORY | CHANGE FROM PREVIOUS | MONTHLY COST |
|---------------------------|----------------------|---------------|
| Business overhead | No change | \$397 |
| Supabase | Upgrade Free → Pro | \$25 |
| PostHog / Sentry / Push | Still free tier | \$0 |
| Total Monthly Burn | | ~\$422 |

5,000 Users — Traction

| CATEGORY | CHANGE FROM PREVIOUS | MONTHLY COST |
|---------------------------|-----------------------------|-------------------|
| Business overhead | Maybe add Canva Pro for ASO | \$410 |
| Supabase Pro + overages | Storage may hit ~5GB | \$25-30 |
| PostHog / Sentry | Still within free tiers | \$0 |
| Total Monthly Burn | | ~\$435-440 |

10,000 Users — Pre-Monetization Target

| CATEGORY | CHANGE FROM PREVIOUS | MONTHLY COST |
|---------------------------|----------------------------|-------------------|
| Business overhead | Might add social scheduler | \$422 |
| Supabase Pro + overages | Bandwidth climbing | \$30-40 |
| PostHog | May exceed 1M events/mo | \$0-30 |
| Sentry | May exceed 5K errors/mo | \$0-26 |
| Total Monthly Burn | | ~\$455-520 |

THE REAL STORY

At every scale, **business overhead dominates** — AI tools alone (\$280/mo) cost more than app infrastructure will ever cost at 10K users. The app literally runs for free until 1,000 users. Infrastructure only becomes a meaningful cost line if we add photo uploads, video, or maps.

3. Cost Per Active User

| SCALE | TOTAL MONTHLY | INFRA ONLY | MAU | TOTAL COST/USER | INFRA COST/USER |
|------------------|------------------|---------------|--------|--------------------|--------------------|
| Soft launch | \$397 | \$0 | 100 | \$3.97 | \$0.00 |
| Post-launch | \$422 | \$25 | 1,000 | \$0.42 | \$0.025 |
| Traction | \$438 | \$28 | 5,000 | \$0.088 | \$0.006 |
| Pre-monetization | \$490 | \$68 | 10,000 | \$0.049 | \$0.007 |

WHY SOLA IS CHEAP TO RUN

Text-first content — community threads, trip journals, DMs are all tiny payloads. **Unsplash-hosted images** — editorial images cost us zero bandwidth. **Minimal user uploads** — only avatars (one small image per user). **Low-volume chat** — 1:1 DMs, not group/media chat. **No video, no maps API, no real-time location tracking.**

4. Top Cost Traps

Things that look cheap now but can surprise us at scale.

1 PostHog Event Explosion (the silent killer)

We track ~40 event types across 25 files. At low usage this is fine. But if users are sticky:

Low usage: $10K \text{ MAU} \times 5 \text{ sessions} \times 8 \text{ events} = 400K \text{ events/mo}$ ✓ free

High usage: $10K \text{ MAU} \times 15 \text{ sessions} \times 12 \text{ events} = 1.8M \text{ events/mo}$ ✗ \$248/mo overage

Fix: Set a PostHog usage alert at 500K events/mo. When approaching limits, cut generic screen_viewed events and keep only specific action events. Alternatively, self-host PostHog on a \$5/mo VPS.

2 Supabase Bandwidth from Image Serving

Place images in our Supabase Storage bucket download through our bandwidth quota on every city page load. Supabase isn't a CDN.

10K MAU × 5 sessions × 7MB images = 350GB/mo
Pro includes 250GB. Overage: 100GB × \$0.09 = \$9/mo

Fix (when needed): Move place images to Unsplash URLs or Cloudflare R2 (\$0 egress). Use expo-image caching aggressively.

3 User Photo Uploads Beyond Avatars

Users *will* request trip photo journals. The math changes fast:

10K users × 3 trips × 20 photos × 500KB = 300GB storage = \$75/mo

Rule: Don't add user photo uploads beyond avatars until monetization is in place.

4 AI Tool Subscriptions Are Your #1 Cost

Claude (\$200) + ChatGPT (\$60) + Gemini (\$20) = **\$280/mo**. That's more than all other business tools and app infrastructure combined. These are development costs, not operational costs — they should decrease after launch.

Fix: After v1 ships, audit which AI tools the team actually uses daily. Consider: do all 3 people need ChatGPT Plus? Does everyone need all three services? Consolidating to 1-2 AI tools post-launch could save \$100-200/mo.

5 Google Workspace Seat Creep

At \$14/user/mo on Business Standard, every new team member or contractor costs \$168/yr. If you add 2 more seats for marketing or support, that's \$336/yr extra.

Fix: Use Business Starter (\$7/user) for non-core roles. Consider whether some team members only need free Google accounts with shared drives.

6 Google Places API Burst Costs

The \$200/mo free credit resets monthly. Place Details costs \$0.017/call, Photo costs \$0.007/call. Seeding a new city with 50 places and 5 photos each = ~\$21.

Seeding 10 cities in one month = ~\$210 → \$10 out of pocket

Seeding 20 cities in one month = ~\$420 → \$220 out of pocket

Fix: Spread content seeding across months. Never seed more than ~10 cities in one billing cycle.

7

EAS Build Limits

Expo's free tier includes 30 builds/month. During active development that's fine. But if you're doing frequent hotfixes post-launch, you could burn through them. The next tier is \$99/mo.

Fix: Test thoroughly before submitting. Batch fixes into weekly releases. Use OTA updates (expo-updates) for JS-only changes to avoid full rebuilds.

5. Bootstrapped Launch Strategy

A phased approach to growing safely without surprise bills.

Phase 0: Beta (Now → 100 users)

Total burn: ~\$397/mo (all business overhead, \$0 infra)

- Stay on **Supabase Free plan**
- Invite-only TestFlight (control growth)
- **Limit** DMs to 10 conversations per user
- **Disable** trip matching (useless at low user counts)
- Seed content for 4 launch countries (PH, VN, TH, ID) using Google Places free credit
- Monitor weekly: Supabase Dashboard → DB size, bandwidth

Phase 1: Public Launch (100 → 1,000 users)

Total burn: ~\$422/mo (+\$25 for Supabase Pro)

- Upgrade to **Supabase Pro** before going public (daily backups are critical)
- Launch in App Store — SE Asia focus only
- **Limit** community to 1 post per user per day
- **Limit** avatar uploads to 500KB max
- Set PostHog alert at 500K events/mo, Sentry alert at 3K errors/mo
- Don't add new Google Workspace seats — use shared access where possible

Phase 2: Growth (1,000 → 5,000 users)

Total burn: ~\$435-440/mo

- **Enable trip matching** (now useful with enough user density)
- Start planning monetization — plenty of runway at this cost
- Consider moving place images to Cloudflare R2 if bandwidth is climbing
- Audit PostHog events — cut low-value generic events if approaching 700K/mo
- Spread new city content seeding to stay within Google Places free credit

Phase 3: Pre-Monetization (5,000 → 10,000 users)

Total burn: ~\$455-520/mo

- **Introduce monetization before 10K users**
- Suggested: Premium profile features (\$4.99/mo) via RevenueCat
- Even 2% conversion = 200 subscribers = **\$1,000/mo revenue** — covers all costs 4-5x over
- If PostHog costs spike, switch to self-hosted on a \$5/mo VPS
- Audit Google Workspace — do all seats need Business Standard?

- Add API rate limiting to prevent scrapers from burning bandwidth

6. Weekly Monitoring Checklist

Check these numbers every Monday. Takes 5 minutes.

App Infrastructure

| METRIC | ALERT AT | ACTION AT |
|----------------------|-----------------|--|
| Supabase DB size | 4 GB | 6 GB — review query efficiency, archive old data |
| Supabase Storage | 50 GB | 80 GB — move images to Cloudflare R2 |
| Supabase Bandwidth | 200 GB/mo | 230 GB — optimize image sizes, add CDN |
| Realtime connections | 400 peak | 450 — check for connection leaks |
| Edge Function calls | 1.5M/mo | 1.8M — batch DM notifications |
| PostHog events | 500K, then 800K | 900K — cut low-value events |
| Sentry errors | 3K/mo | 4K — investigate top error sources |

Business & API Costs

| WHAT TO CHECK | WHERE | WATCH FOR |
|------------------------|----------------------------------|--|
| Google Cloud billing | console.cloud.google.com/billing | Places API exceeding \$200 free credit |
| Google Workspace seats | admin.google.com | Unused seats still billing |
| EAS build count | expo.dev dashboard | Approaching 30 builds/mo |
| App Store crash rate | App Store Connect | Above 1% — hotfix priority |
| Lovable bandwidth | Lovable dashboard | If marketing site gets traffic spikes |

7. Final Summary

| USERS | TOTAL/MONTH | INFRA | OVERHEAD | BIGGEST RISK |
|-------|-------------|-------|----------|--|
| 100 | \$397 | \$0 | \$397 | AI tools (\$280) are the biggest line item |
| 1,000 | \$422 | \$25 | \$397 | Forgetting to upgrade Supabase (data loss) |
| 5,000 | \$438 | \$28 | \$410 | PostHog approaching limit |

| USERS | TOTAL/MONTH | INFRA | OVERHEAD | BIGGEST RISK |
|--------|-------------|-------|----------|--------------------------------------|
| 10,000 | \$490 | \$68 | \$422 | PostHog coverage + Google API bursts |

REVENUE BREAK-EVEN

At \$490/mo total cost and a \$4.99/mo subscription, we need **98 paying subscribers** to break even. That's 1% of 10,000 users. Most consumer apps convert 2-5% to paid. At 2% conversion (200 subs), we'd generate \$1,000/mo — **double our total operating costs**. If we cut AI tool subscriptions post-launch, break-even drops to just 14 subscribers.

WHAT COULD CHANGE THIS MATH

Three features would significantly increase costs if added: **(1) User photo uploads** for trip journals (+\$75-300/mo in storage). **(2) Real-time features** like typing indicators or presence (+\$10-50/mo in Realtime). **(3) Maps integration** like Google Maps SDK (~\$7 per 1,000 map loads). None of these are needed for v1. Resist adding them until revenue supports it.