

# 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.

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**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. Stops 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.

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

**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:

$10K \text{ users} \times 3 \text{ trips} \times 20 \text{ photos} \times 500KB = 300GB \text{ storage} = \$75/mo$

**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

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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 overage + 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.