RoomTab

by Gokhan Ceylan

An AI that explains who should pay what, and why
(Commit To Change)

Problem

Splitting costs is **easy**, until it's **not**.

- **The Edge Case Mess:** Someone showed up late, someone didn't drink, someone brought their partner, now what? Traditional split apps freeze.

- **The Invisible Bias:** Most tools divide evenly or by percentage. But they don't ask why. Should the student pay less? Does the vegan pay for BBQ?

- **The Explanation Void:** "Why did I pay more?" is a common question. Current apps give numbers, not logic.

Fair splits are not just math, they're context. We're missing the "why."

Solution

RoomTab is an **AI agent** that thinks before it splits.

- **Context-Aware Logic:** Give it a situation ("A didn't drink", "B was late"), and it rebalances the split with reasoning.

- **Transparent Outputs:** Every decision comes with a friendly explanation — no black boxes.

- **Built-in Fairness Audit:** You can replay any decision, see the trace, and check how the logic holds up.

Demo

https://room-tab.vercel.app/

RoomTab

🎉 Join the Fairness Revolution

Split costs fairly, for any moment.

RoomTab uses AI to handle complex splits for roommates, trips, dinners, and events. Account for non-drinkers, late arrivals, and more.

Start a Split Plan →

See How It Works

No signup required. Try it instantly.

Create Plan #1

Smart Split Creator

Select a category to load a template, then fill in the numbers.

→ View History

What are we splitting?

Category (Loads Template)

Trip / Vacation ⌄

Event Title

Weekend Trip

Currency

USD ($) ⌄

Create Plan #2

Expenses
Enter the amounts for each item.

USD 1500.00

Airbnb	USD 800	Rebecca	✕
Gas / Fuel	USD 200	AbbyM	✕
Groceries	USD 300	MEE6	✕
Tickets	USD 200	Rebecca	✕

＋ Add Item

Create Plan #3

Participants

Add specific tags like "Non-drinker" or "Arrived late" to influence the AI.

1. Rebecca
   Encode Club ×   Add tag...

2. AbbyM
   Comet ×   Add tag...

3. MEE6
   App ×   Add tag...

+ Add Person

Additional Context AI Powered

Describe any special situations. Leave empty for a standard split calculation.

Rebecca booked the Airbnb. AbbyM brought snacks for everyone.

61/500

Generate Split →

Create Plan #5

ⓘ Fairness Logic

Based on the context, MEE6 pays $510 due to not contributing, while Rebecca and AbbyM pay $495 each for their contributions to the Weekend Trip.

Rebecca
33%
Saved USD5

USD 495

Fair Share Responsibility EDITABLE

ⓘ Handled Airbnb, deserving a lower share than MEE6.

AbbyM
33%
Saved USD5

USD 495

Fair Share Responsibility EDITABLE

ⓘ Brought snacks, deserving a lower share than MEE6.

MEE6
34%
Pays USD10 more

USD 510

Fair Share Responsibility EDITABLE

ⓘ Did not contribute; assigned a higher share as requested.

Create Plan #6

Edit Plan | Export PDF | Export CSV

💸 Settlement Plan
The most efficient way to settle debts.

AbbyM pays **Rebecca** USD295.00

MEE6 pays **Rebecca** USD210.00

Create Plan #7

🚀 Opik Observability Dashboard

Real-time metrics from the fairness agent.

Model: gemini-2.0-flash   3693ms

Fairness Score
94/100
+4% vs. avg baseline

Disagreement Rate
0%
Based on post-split feedback

Financial Relief
None
Subsidy logic triggered

LATEST TRACE LOG

```
{
    "trace_id": "1a48b8c2-6f25-4421-a7d4-e4c84f755220",
    "project_name": "RoomTab",
    "model": "gemini-2.0-flash",
    "tags": ["fairness_eval", "weighted_v2_settlement_aware"],
    "input": { "participants": 3, "total": undefined },
    "result": "success"
}
```

CASE: HANDLED AIRBNB   CASE: BROUGHT SNACKS   CASE: NO HELP   CASE: PAY MORE

Was this fair? (Logs to Opik)   👍 Yes   👎 No

Observability with Opik

Fairness Isn't Just a Feeling, we made it **verifiable**.

- **Every decision is traceable:** We log latency, token count, model version, and context for each split.
- **Users can see why someone paid more or less:** No magic, just logic.
- **"Was this fair?" is logged live:** Closing the loop for real accountability.
- Scenario tags (like vegan, arrived_late, premium_room) make it easy to filter and evaluate edge cases.
- **No hidden AI guessing:** We can audit it all at /audit.
- **We didn't just use Opik:** We built around it to prove the system is fair under pressure.

System Architecture
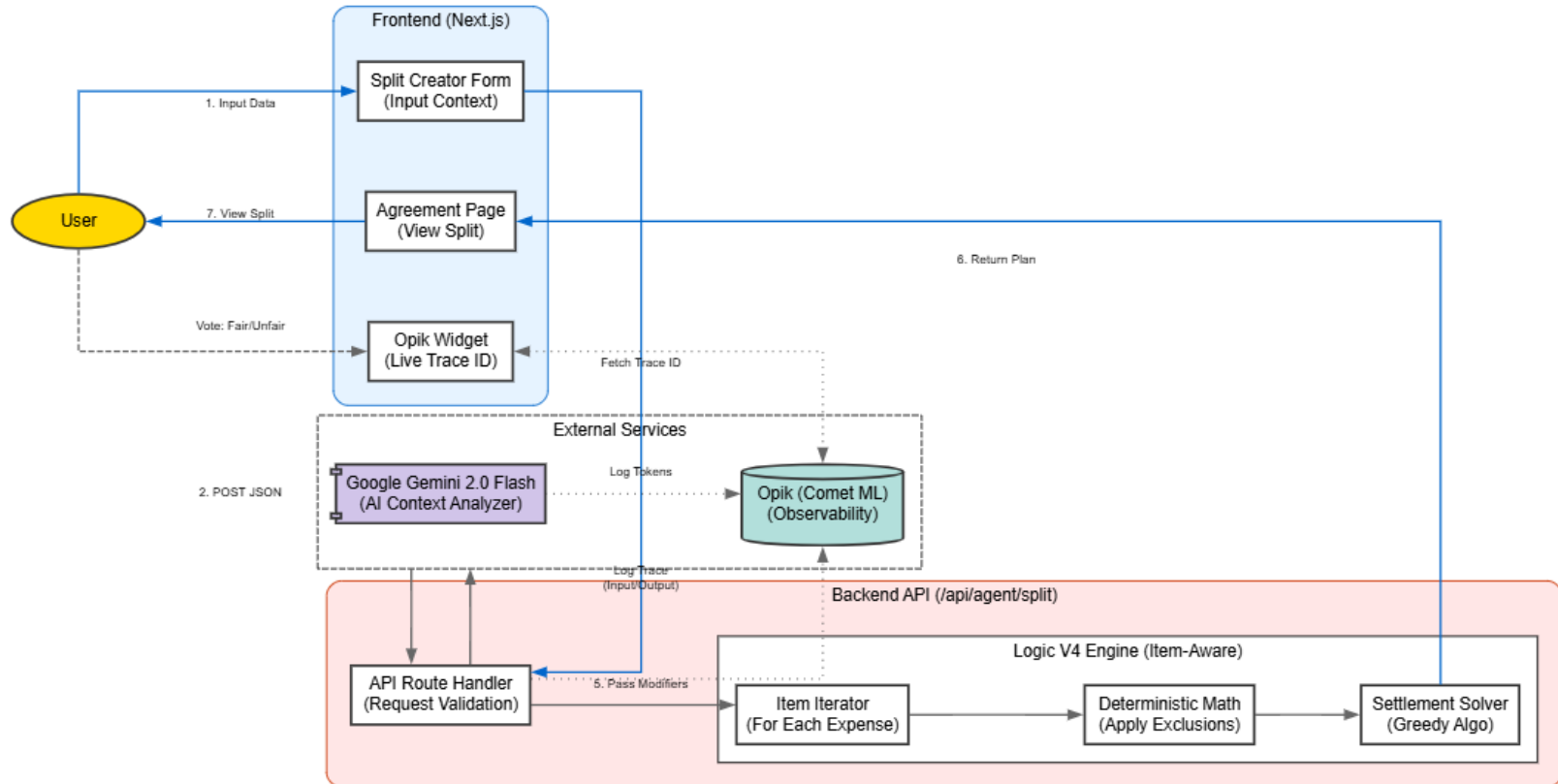
Fairness for Every Occasion

From quick dinners to year-long leases. Choose the plan that fits your social life.

Starter

For one-offs & quick trips

$0

- ✓ Dinners, Dates, & Drinks
- ✓ Basic "Fairness" Logic
- ✓ 7-Day History

Current Plan

Household ★

For recurring living costs

$4.99/mo

Most Popular

- ✓ Unlimited History
- ✓ Advanced Context (2x token limit)
- ✓ PDF Export & Agreements
- ✓ "Financial Health" Insights

Coming Soon

Organizer

For big groups & events

$12.99/mo

- ✓ Everything in Pro
- ✓ Multi-user Management
- ✓ Receipt Scanning (OCR)
- ✓ Dedicated Support

Coming Soon

Links

- **Live Demo:** https://room-tab.vercel.app/

- **Demo Video:** https://youtube.com/tbu

- **Source Code:** https://github.com/GokhanCey/RoomTab

- **Pitch Deck:** https://github.com/GokhanCey/RoomTab/blob/main/RT.pdf

RoomTab

AI that explains who should pay what, and why

Thank you.