

UNDERSTANDING THE PROBLEM SPACE

What is Digital Wellbeing

It is about having a healthy, **intentional relationship** with technology so it enhances your life rather than detracts from it.

Need

To see what phone usage actually looks like and understand what's the reason behind it.

What internet research tells about the human behaviour

- **Phone sessions per day are rising:** users averaged 72 daily in 2020, with current figures expected to be significantly higher.
- **Sessions are becoming more frequent:** 50% start within 3 minutes of the previous one.
- **Most sessions are short and unconsidered:** 70% last under two minutes, with a median of just 53 seconds.

[Link](#)

What iOS currently offers for digital wellbeing

- **Monitoring:** Screen Time dashboard
- **Limiting:** App Limits, Downtime, Communication Limits
- **Filtering:** Focus Modes, DND, Notification Summary
- **Restricting:** Content & Privacy Restrictions, Always Allowed
- **Physical:** Screen Distance

[Current Look](#)

The Problem

Current digital wellbeing tools show the numbers, but never helps to understand what those numbers actually mean for habits and emotions which makes tools feel pointless.

How users currently tackle their screen time

Action	Why	Impact
Install third party apps	Want external discipline	Short term, quickly abandoned
Delete Apps	Removing source feels decisive	Habit shifts to another app
Mentally restrict themselves	Believe willpower should suffice	Exhausts mental energy daily
Do nothing	Problem feels "not bad enough"	Creates chronic guilt
Set timers/ focus modes	Want hard automatic boundaries	Bypassed almost every time
Check screen time report	Want to quantify the problem	Guilt without any insight
Turn off notification	Blame external triggers	Self- initiated pickups continue

The Pattern: Every approach targets visible behavior that is time spent, apps opened, notifications received. None address the emotional triggers driving that behavior.

THE LANDSCAPE: WHAT EXISTS AND WHAT'S MISSING

[Detailed analysis](#)

The current landscape

Tool	Key Features	Limitations
iOS Screen Time	Usage tracking, app limits, downtime	Easy to bypass with "Ignore Limit"
Android Digital Wellbeing	App timers, focus mode, bedtime	Basic features, can be disabled
Forest	Gamified timer, grow trees, whitelist	Paid features; just motivates
Opal	AI blocking, deep focus, analytics	Subscription based
OneSec	5-second delay, friction tactic	doesn't fully block, limited free version

OS level

Third party Apps

Learning from Apple's Own Ecosystem

App	Why Used	How It Works	What We Learn
Apple Health	Track health metrics	Correlates cross-metric patterns	"Connect behavior to context"
Photos Memories	Relive past moments	Surfaces time-based emotional context	"Link behavior to emotional moments"
Siri Suggestions	Quick app access	Surfaces unconscious behavioral routines	"Reveal invisible habit patterns"

Internet Research

No technique to reduce screen time has ultimately worked for me

How do I get off my phone when I don't want to do anything else?

I am a teenager that has 10-14 hours of screentime daily. Please help me cut it down as much as possible, I hate this.

The constant urge to check my phone is eating my head and work-hours.

Does anyone else open apps without realizing or am i just weird?

Chronically High Screen Time - What should I do?

i was picking up my phone before my eyes were even fully open. thats when i knew

I'm stuck in an unproductive loop on my phone and can't get out.

I keep opening the same apps without thinking and I do not know how to stop

I waste my time everyday on my phone instead of being productive

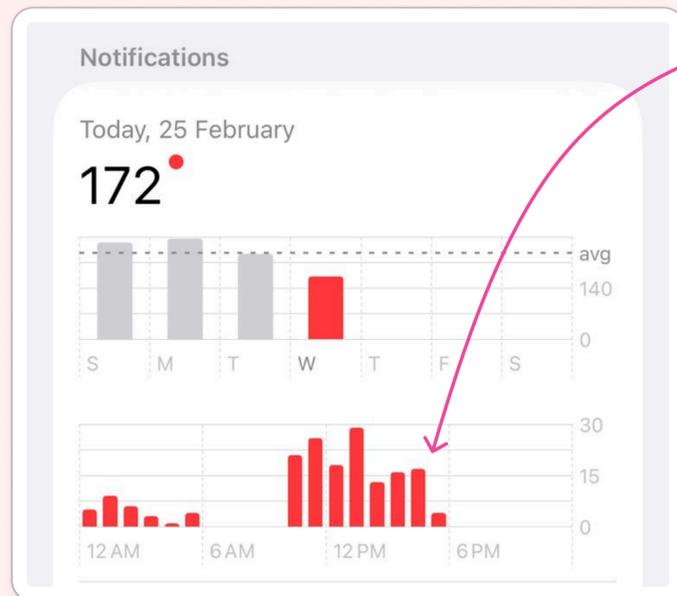
Insights from internet research

- Screen time feels too high
- Do not remember opening apps
- Focus and quality of life visibly affected

WHY SCREEN TIME FAILS - Feature Audit and User Journey

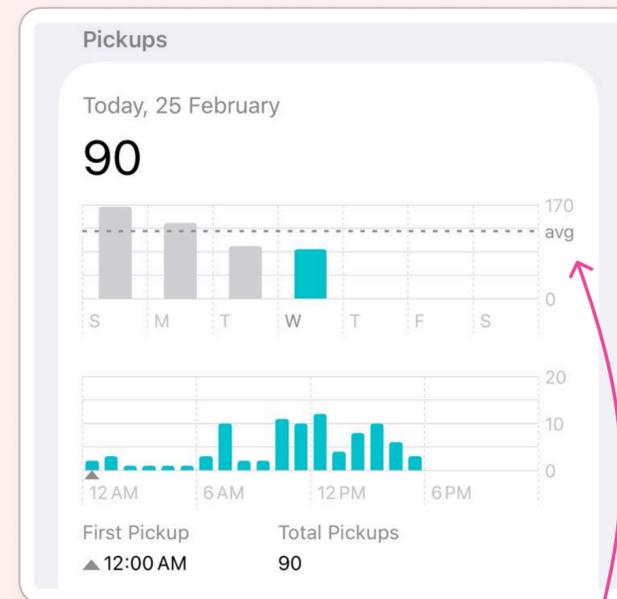
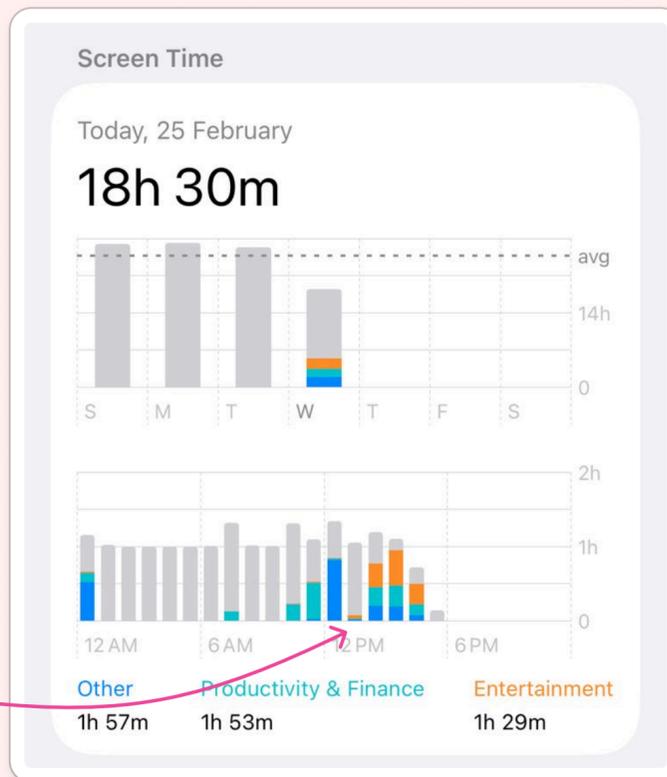
[Detailed ux analysis and user journey](#)

What Screen Time shows vs what the user actually needs



The timewise spike shows nothing about what was happening in the user's real life.

Doesn't explain why behind the screen time spike



"Screen Time gives users four data views - total time, app categories, pickup counts, and notifications. All of them answer 'how much' and 'when,' but not 'why' or life context behind it"

Doesn't explain how 100 pickups became user's normal

How users interact with Screen Time - User Journey

	Trigger →	Data Shock →	Dead End →	Restriction →	Override →	Abandonment
What happens	Find themselves using their phone too much	Opens Screen Time and see high usage numbers	Taps into details, find more number make it more confusing	Sets App Limits, enables Downtime	Hits limit, taps "Ignore Limit" or disable Downtime	Stops opening Screen Time
What users think	"I'm on my phone too much" 	"9h 44m? That can't be right" 	"But WHY was Sunday bad?" 	"I'll just set limits, this will fix it" 	"I'll just check one thing." 20 min later "I did it again." 	"I already know I use it too much. The number doesn't help." 
What users feel	Guilt, loss of control	Shock, then shame	Frustration	Brief optimism	Defeat	Resignation

WHO ARE WE BUILDING FOR

Target Segment

Young working adults aged 25-35 (late Gen Z and core Millennials) – people who already know they're on their phone too much, have tried to fix it, and failed.

Why this segment

[Detailed link](#)

1. They already recognize it – acknowledge their phone usage is too high
2. They're actively trying to change – trying to reduce their screen time
3. They feel the consequences in real time – losing focus and productivity
4. They've looked for help and nothing has worked – tried different screen time tools

Market Sizing

[In-depth analysis](#)

TAM	All iPhone users aged 25- 35	~387M
SAM	Aware of their phone usage	~302M
SOM	Users who have tried to fix it and failed	~74M

Unmet Needs

- **Explanation over data** : They can see how much time they lose. They cannot see why it keeps happening.
- **A tool that matches their self-awareness** : They have tried everything. They are not looking for restrictions. They are looking for insight.



Arjun Desai, 27, Senior Frontend Developer, Pune

"I read a 40-minute article about attention exploitation, on my phone, at 2 AM."

Profile : Consumes Twitter/X, Hacker News, and YouTube disguised as professional learning. Averages 5h 18m daily. Built his own blocker app, used it for four days, then disabled it.

Pain Points : He has all the knowledge about phone addiction but none of the emotional clarity about his own behaviour. He knows the science, yet has never asked himself what he is avoiding.

Goals : To develop genuine self-awareness about what drives his usage and to make intentional choices about where his attention goes.

JTBD: "When I choose YouTube over my side project again, I want to understand the reasoning behind that choice, so I can start making more intentional decisions about where my attention goes."



Priya Menon, 25, Product Marketing Manager, Bangalore

"I've hit 'Ignore Limit' so many times it's basically a reflex now."

Profile : Uses Instagram and YouTube Shorts as emotional relief between work tasks. Averages 6h 42m daily. Has tried Screen Time limits, grayscale mode, and app deletion, all failed within days.

Pain Points : She knows how much she scrolls, but not why she keeps reaching for it. The data shows hours lost, never the emotion that started it.

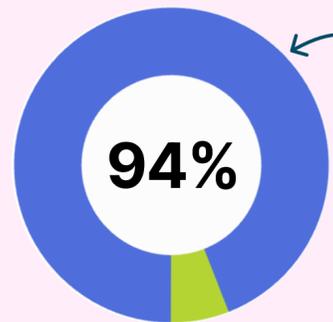
Goals : To understand the emotional triggers behind her usage and build self-awareness rather than rely on willpower alone.

JTBD: "When I'm scrolling at 1 AM, I want to understand what brought me here, so I can address the cause instead of blaming myself."

Hypothesis : Unplanned phone pickups are triggered by a **moment of discomfort** like boredom, anxiety, a transition, something unresolved. Because this happens at **low conscious awareness** and repeats many times a day, users have no visibility into what is actually driving their usage.

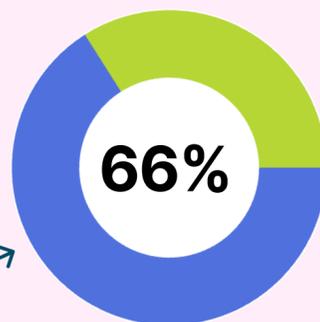
Survey Insights (31 responses)

[Survey Link](#)



said they feel they use their phone more than they would like.

66% reached for their phone right **after finishing a task** which is the highest trigger.



- **50%** feel guilty after seeing their screen time report
- **55%** have tried a focus mode or app timer at least once.
- **94%** do not use any third-party app for phone management.

User Interview Responses (6 users)

User Quotes	Interpretations
"I check my phone between every task. I told myself it was a break, but honestly I don't even know what I'm looking for."	He was escaping the gap between tasks to avoid the discomfort of not knowing what comes next.
"When I see my screen time I feel bad for like two minutes, then I forget about it. There is nothing to actually do with that number."	Data without context produces guilt, not change. The number is meaningless without the story behind it.
"I pick up my phone a lot after meetings. I think my brain just needs to decompress but I don't know a better way to do it."	She had already detected the trigger pattern herself but had no language for it and no tool to confirm it.
"I use my phone most when I am procrastinating. I know it in the moment but I still do it. Knowing doesn't stop me."	She is already aware about her phone usage. What's missing is the context about her pattern over time so it stops feeling like a one-off.

Recall Walkthrough Insights (3 users)

Observation 1 : In nearly every session, users recalled reaching for their phone right after a **structured activity ended** like a meal, a work task, an episode. The moment routine gave way to an **open interval**, the **phone filled it**. Not out of desire, but out of having nothing defined to do next.

Observation 2 : Most users could recall only one deliberate unlock across their entire day. For everything else, they had no explanation, just habit, they said. The **pickup had come before any intention** was formed.

FRAMING PROBLEM IN DETAIL

★ **Must see** → [Connecting the dots and understanding the whys](#)

The Problem Chain: From Behavior to Root Cause

1. Always There

Phones have become a constant physical presence in modern life



2. Discomfort Strikes

Any **discomfort** like boredom, fatigue, anxiety triggers an immediate escape and the **brain looks for the quickest way out.**



3. Nearest Exit

The phone is the **fastest exit available.** It is zero friction, always accessible, and instantly rewarding.



4. Invisible Repetition

This happens many times a day, and over time it becomes **subconscious muscle memory.** The behavior repeats until it no longer requires a decision, the hand moves before the mind does.



5. Shock of the Number

As a result, when screen time numbers surface, they feel shocking. The data reveals a number that does not match how the user experienced their day.



6. Try Fix

So they try to restrict themselves with timers, app limits, focus modes, third party apps.



7. Still Broken

Nothing works Because the phone was never the problem. The **discomfort driving the behavior** is still there, still unnamed.



8. The True Problem

Users can see exactly how much time they spend on their phone, but have no way of understanding "why". Throughout the day, moments of **discomfort** trigger **unconscious pickups** that happen **below conscious awareness.** Because none of it felt intentional, users struggle to interpret their own usage reports which tells "what" and "when". Without the **emotional context** behind each pickup, screen time numbers produce guilt but no real understanding.

9. What They Actually Want

What they want:

- To name that feeling
- To relate it to their life context

So that they have something meaningful to act on and genuinely reflect upon.



Value generated by solving this problem

For the bussiness

Solving this problem strengthens user trust in the iOS ecosystem. When users feel their phone understands them rather than judges them, their relationship with the platform deepens

For the users

Users will have an explanation for their own behavior. That shifts the relationship with their phone from guilt and frustration to genuine self-awareness

Who are the customers facing the problem?

Young working adults aged 25-35 who are digitally self-aware. They are aware about their phone usage, have tried to fix it, and failed. This segment feels the friction most acutely and is most motivated to find something that works.

How do we know its a real problem

- 94% of surveyed users feel they use their phone more than they would like, and 66% reach for it without any conscious intention.
- 55% have already tried existing tools to change their behavior, but failed.

Why should we solve this problem now?

- Screen time is rising and shows no sign of slowing down.
- Existing tool has failed to meaningfully reflect users.
- Awareness around mental health and digital wellbeing has never been higher.
- On-device AI and passive sensing are finally mature enough to make this possible

SOLUTION EXPLORATION: HOW SHOULD INSIGHTS BE PRESENTED TO THE USER?



Solution 1: Behavioral Insight Engine

- An AI-powered insight engine that passively collects phone behavior and life context signals. It learns what's normal for each user over time and surfaces daily and weekly causal insights explaining “why” and emotions behind their usage.
- This model runs on-device to ensure privacy and gets smarter through user feedback
- Weekly personalized memoji sticker that reflects behavioral patterns, making self awareness feel shareable.

Why this Solution:

It connects phone usage behavior with life context to understand the emotional triggers behind their screen time.

Solution 2: Guided Self-Reflection

- A guided self-reflection mode where users explore their phone behavior through personalized questions generated from their usage patterns. Users can also edit existing questions or write their own for the AI to answer.
- Over time, as more data is collected, the quality of questions and insights improves as the model trains continuously alongside the user's phone usage data.

Why this Solution:

Helps users explore the question in their own words through structured reflection.

Why not this Solution:

Requires consistent user effort, making it unsustainable for long-term retention.

Solution 3: Real Time Awareness

- A real-time awareness system that detects unconscious pickup patterns as they happen and delivers a subtle contextual prompt in the moment followed by a question prompt.
- The system identifies when is the user entering the pickup cluster zone and intervenes before the behavior completes, creating a pause between the automatic urge and the action.

Why this Solution:

It let users to self-reflect in that exact moment before the unconscious behavior completes.

Why not this Solution:

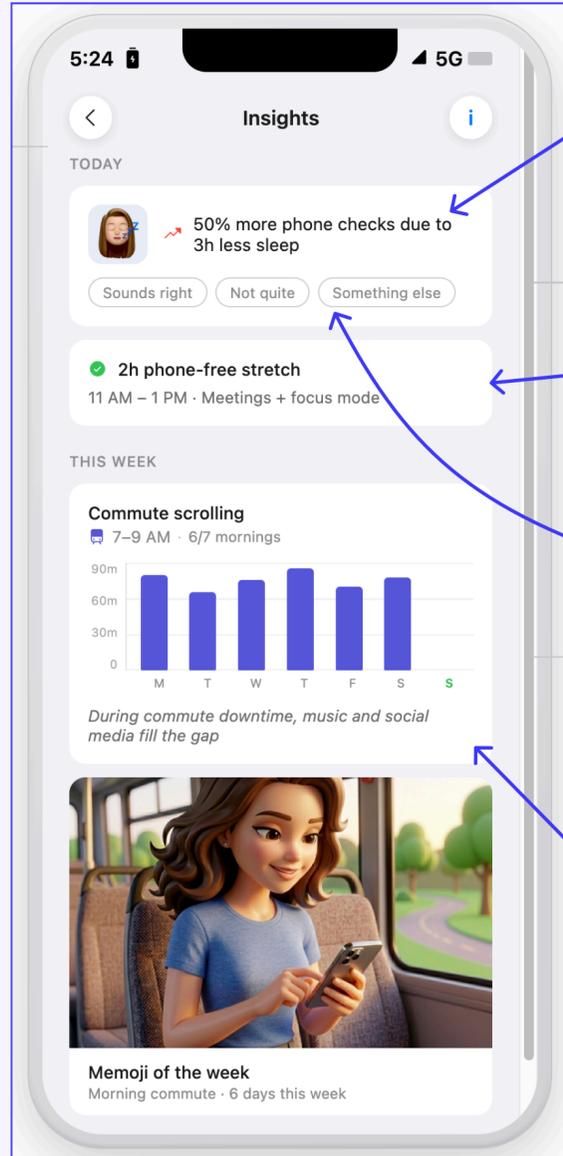
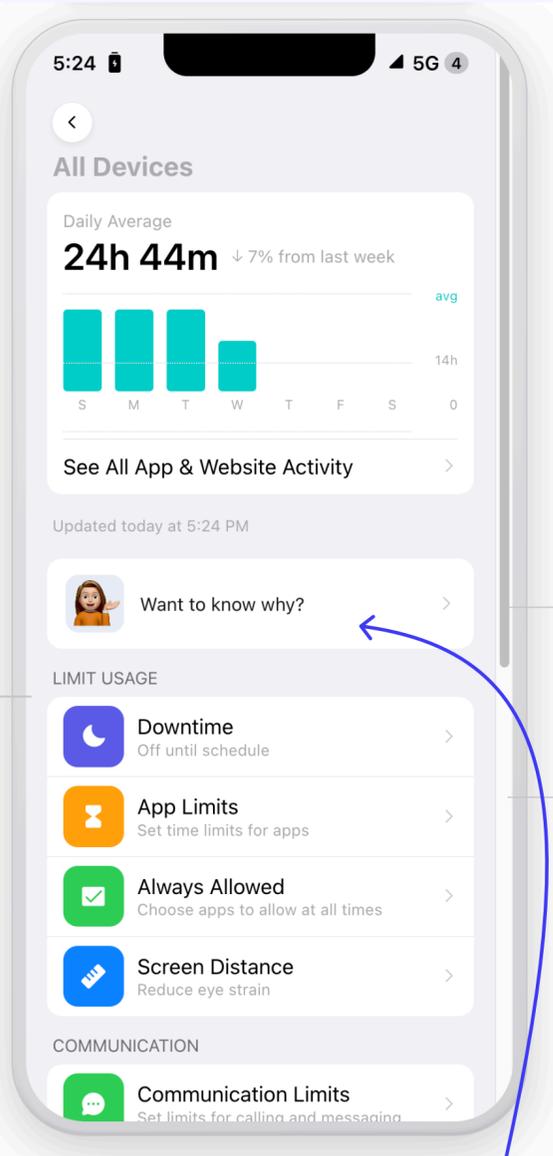
Intervening in the moment risks feeling intrusive, which compromises emotional safety and user trust

Solutions	User effort	User research signal	Behaviour personalization over time	Emotional safety	Trust Impact	Long term retention
Solution 1 	Low	High	High	Medium	High	High
Solution 2	High	Medium	High	High	High	Low
Solution 3	None	Medium	Medium	Low	Medium	Medium

First Page

Second Page

Trust and Control

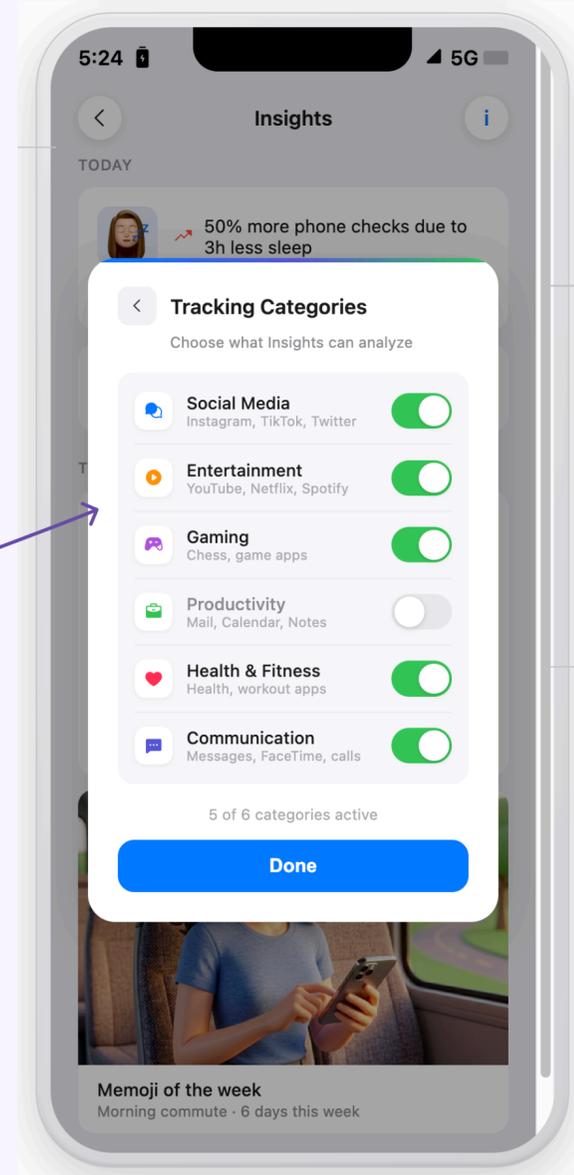
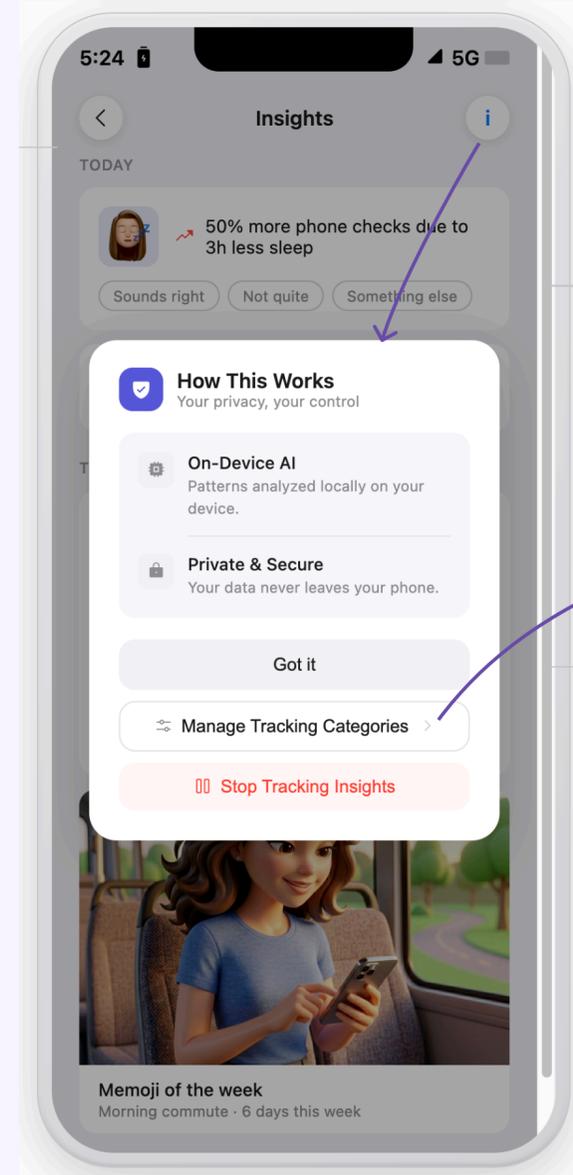


The top of the page highlights the major issue that day.

The highlight is followed by a positive observation the same day.

AI might make errors and users can disagree with the conclusions provided

The weekly section shows the most dominant pattern discovered that week. Followed by a memoji that



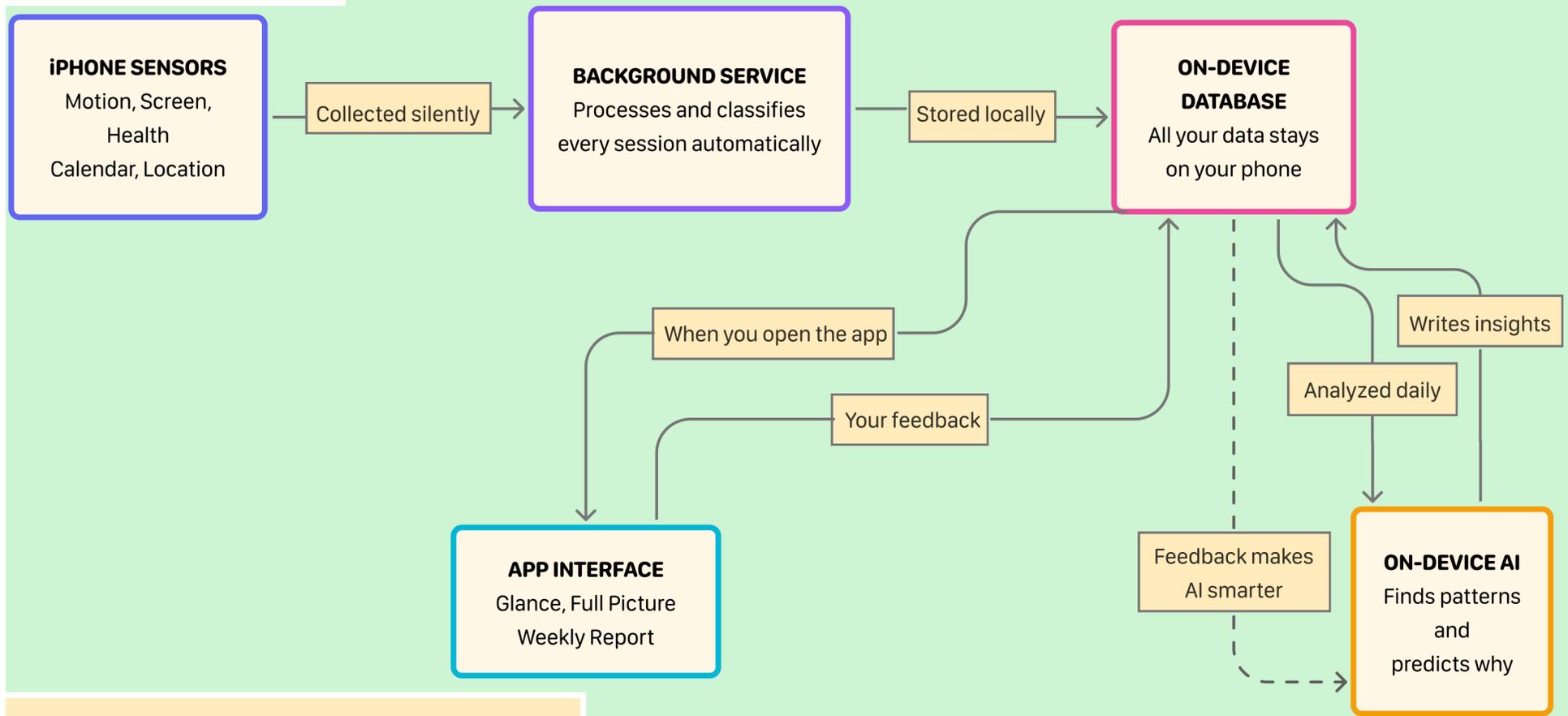
The insight button is placed just below the daily average bar

Generates weekly behavior Memoji Sticker
WHY: Makes self-awareness feel personal and shareable instead of clinical and guilt-driven

Users can allow/stop the tracking of certain applications/sections, or stop the tracking completely. On-Device AI further ensures that none of the user data is misused.

TECHNICAL ARCHITECTURE AND DESIGN PRINCIPLES

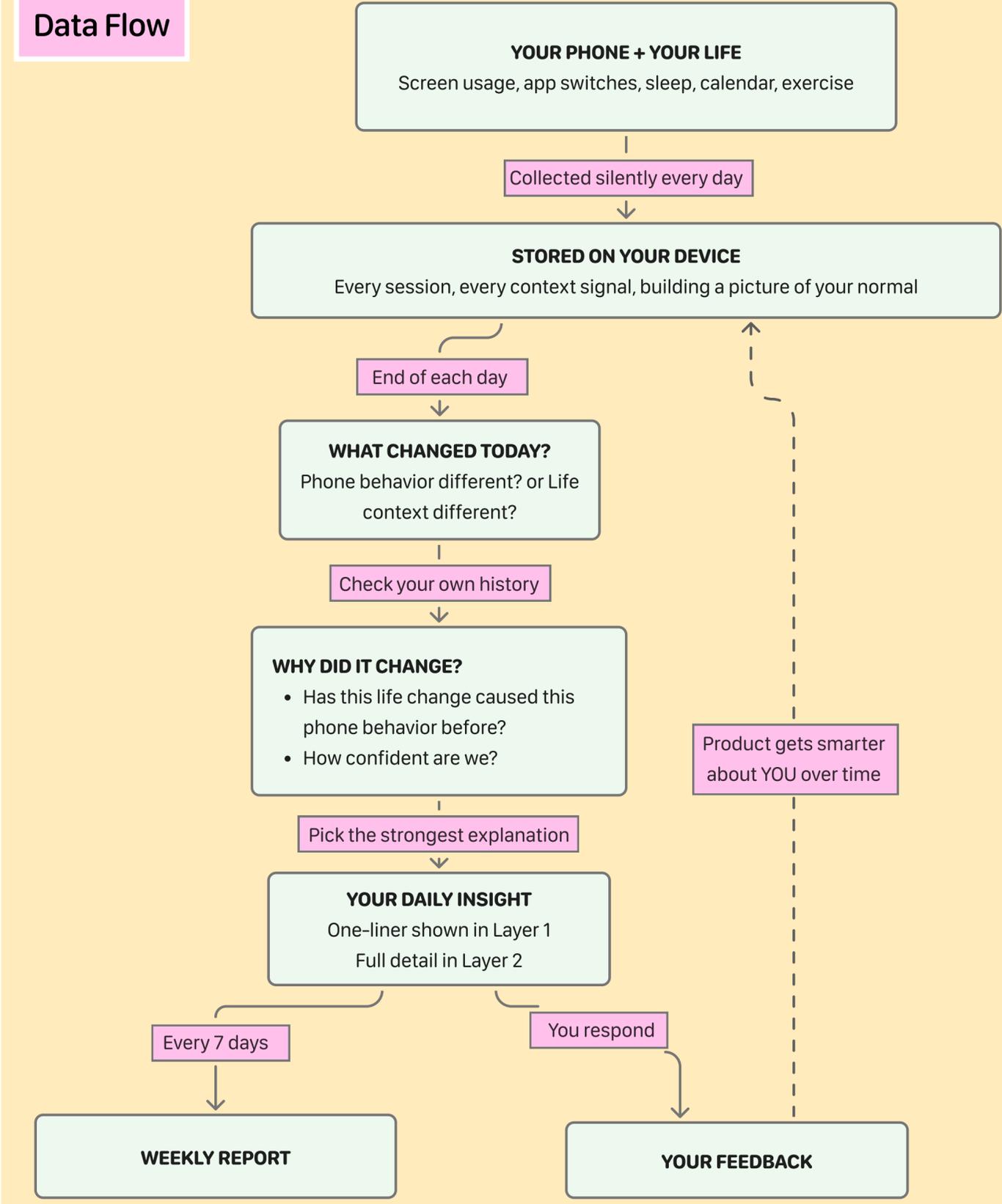
System Architecture



Trust, Safety, and Design Principles

- **Data and Privacy** : The engine is powered by a CoreML model that runs entirely on-device. All data is processed and stored locally on the user's phone, ensuring privacy is built into the architecture itself.
- **Permissions and Control** : Users can revoke, or modify any tracking category at any time. Every data source requires explicit opt-in, with a clear option to pause or stop entirely.
- **Designed for Glanceability** : The interface distills rich behavioral context into concise, scannable statements. Long insights are reduced to few words, minimizing cognitive overwhelm.
- **Emotional Safety** : Insights are framed as explanations, never judgments. The system never shames, never prescribes action, and never uses language that induces guilt or anxiety.

Data Flow



SUCCESS METRICS & BEHAVIORAL RISKS

[🔗 Detailed-analysis](#)

Success Dimension	Metric Type	Metric	Definition	Why	Target
Understanding (Is the AI getting it right?)	 North Star Metric	Insight Affirmation Rate	% of insights where user taps "Sounds right"	Confirms the AI understood them	55–60%
Hook effectiveness	Leading	"Want to know why" tap rate	% of main screen sessions where user taps the insight entry point	First signal that the hook is landing and curiosity is real	60–70%
Meaningful engagement (Are users engaging deeper?)	Lagging	Model accuracy trend	"Sounds right" to "Not quite" ratio per user over 8 weeks	Proves the AI actually gets smarter over time	~55% → ~75%
Trust (Do users feel safe?)	Guardrail	"Stop Tracking" tap rate	% users who tap "Stop Tracking Insights"	Total product rejection signal	<10%
Trust	Guardrail	Consecutive "Not quite"/"Something else"	Users with more "Not quite" than "Sounds right"	Model is consistently wrong, trust eroding	Watch for >3
Meaningful engagement (Are users engaging deeper?)	Guardrail	Feedback silence rate	% of users who never tap any feedback button	No feedback = model can't learn	<50%

Risk Insight Fatigue: When the same pattern surfaces repeatedly, it loses signal value - becoming noise rather than a meaningful observation.

Risk Life Context Collapse: Big events like job loss and a forming habit look identical in the data - producing insights that are not just wrong, but poorly timed at the moment a user is most vulnerable.

Mitigation: Once a user acknowledges a pattern, the system retires it. It re-emerges only when something meaningfully changes - a spike, a sudden absence, a context shift.

Mitigation: When patterns shift beyond a threshold, the model suspends interpretation and surfaces one open prompt - "Your patterns look different this week. Anything going on?" The response anchors context for the weeks that follow. When confidence is low, ask rather than assume.