

Instrumentation plan

A pragmatic event taxonomy + funnel plan to measure outcomes, protect trust, and support experimentation.

GOAL

Instrument the experience so you can prove impact, diagnose issues, and run trustworthy experiments—without drowning in events.

Event taxonomy and naming

Naming convention: **object_action** (e.g., `rec_module_viewed`, `rec_item_clicked`). Use consistent nouns and past-tense actions.

Event name	When it fires	Required properties
<code>rec_module_viewed</code>	Recommendation module enters viewport	<code>user_id</code> , <code>session_id</code> , <code>surface</code> , <code>experiment_id</code> , <code>variant_id</code> , <code>position</code>
<code>rec_item_impression</code>	A recommended item is rendered	<code>item_id</code> , <code>item_type</code> , <code>rank</code> , <code>model_version</code> , <code>rationale_code</code>
<code>rec_item_clicked</code>	User clicks a recommended item	<code>item_id</code> , <code>rank</code> , <code>surface</code> , <code>experiment_id</code> , <code>variant_id</code>
<code>rec_item_dismissed</code>	User dismisses / hides an item	<code>item_id</code> , <code>reason</code> (optional), <code>rank</code> , <code>model_version</code>
<code>content_consumed</code>	Content is completed / meaningful dwell	<code>content_id</code> , <code>format</code> , <code>duration</code> , <code>completion_pct</code>
<code>tool_started</code>	User starts a high-value tool	<code>tool_id</code> , <code>entry_point</code> , <code>experiment_id</code> , <code>variant_id</code>
<code>tool_completed</code>	User completes the tool	<code>tool_id</code> , <code>completion_time</code> , <code>success_flag</code>
<code>feedback_submitted</code>	Explicit feedback is given	<code>type</code> , <code>sentiment</code> , <code>free_text</code> (optional), <code>surface</code>

Funnels and KPIs

Funnel	Definition	Primary KPI
Discovery to action	rec_module_viewed -> rec_item_clicked -> tool_started	CTR, tool start rate
Action to completion	tool_started -> tool_completed	Completion rate, time-to-complete
Engagement quality	content_consumed (>=X sec) + repeat visits	Qualified engagement rate
Trust health	dismissals + negative feedback + support contacts	Dismiss rate, complaint rate

Data quality checklist

- Events fire once per exposure (no duplicates) and include experiment identifiers.
- Exposure is logged (who saw what) for valid attribution.
- Timestamps are consistent (server vs client) and timezone-safe.
- Properties are typed and validated (IDs, enums, null behavior).
- Dashboards match source-of-truth queries (no “Excel math”).

Privacy and retention notes

- No sensitive attributes stored in event payloads unless explicitly approved.
- PII is minimized; IDs are hashed/tokenized where appropriate.
- Retention policy documented; access controlled and auditable.