

1. Agent Configuration

Instruction Prompt

Visit 7 URLs and perform one short natural interaction using synthetic input.

Agents

Open-Source Agents



GPT-5-mini

Proprietary Agents

(w. native computer-use model)



2. UX Task Execution & Trace Logging



← → ↻ uxbehaviorsuite.com

S1: Functional UI testing

Submit input/click buttons with varied designs

S2: Contextual State Retention

Navigate scrollable panels and verify state consistency

S3: Hover-Trigger Interaction

Trigger hidden button appear via mouse-over actions

S4: ID/Label Mismatch

Interact with buttons where labels differ from DOM IDs

S5: Temporal Adaptability

Respond to feedback delays of 1,500--3,000ms



Raw Logs

Trace Segmentation
by timestamps

3. Feature Extraction

TLS Layer

ClientHello fingerprint

- ClientHello + Connection
- JA4, ALPN, SNI
- ciphers, extensions, groups
- handshake timing

HTTP Layer

HTTP/2 / Request fingerprint

- SETTINGS, WINDOW_UPDATE
- pseudo-header/header order
- headers, body digest, latency
- request timing

Behavior Layer

Client-side event traces

- Mouse move, keyboard, scroll
- App-specific events
- Interaction timing

4. Fingerprinting

Labeled
feature vectors

Fingerprinting
classifier



Attributing
outputs

Human /
crawler /
agent