### **Sword of Truth (PoC)**

Goal: Capture subconscious user reactions to loaded/trigger phrases via gaze tracking and behavioral analytics.

### **Core Stack**

* Frontend: HTML + JavaScript
* Gaze Tracking: WebGazer.js (lightweight eye tracking)
* Telemetry: Custom JS tracking (clicks, scrolls, unload)
* Trigger Mapping: JSON-based trigger lexicon

### **PoC Flow**

1. Load trigger phrases silently in content (visibly or off-screen)
2. Watch user gaze hover duration per word
3. Detect sudden gaze departure or tab leave near triggers
4. Log behavior sequence and confidence flag

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Sword of Truth PoC</title>

<script src="https://webgazer.cs.brown.edu/webgazer.js"></script>

<style>

body { font-family: sans-serif; padding: 2rem; }

.trigger { color: red; font-weight: bold; }

</style>

</head>

<body>

<h1>Welcome</h1>

<p>

This is a demonstration of behavioral telemetry. A child once asked, <span class="trigger" data-trigger="kid">"Do you know?"</span>

The sky was blue and the <span class="trigger" data-trigger="truth">truth</span> was silent. But we remember.

</p>

<script>

const triggerWords = ['kid', 'truth'];

const gazeThreshold = 1000; // ms hovered over trigger

const triggerStates = {};

window.onload = () => {

webgazer.setRegression('ridge')

.setGazeListener((data, timestamp) => {

if (!data) return;

document.querySelectorAll('.trigger').forEach(el => {

const rect = el.getBoundingClientRect();

const x = data.x;

const y = data.y;

if (x >= rect.left && x <= rect.right &&

y >= rect.top && y <= rect.bottom) {

const key = el.dataset.trigger;

if (!triggerStates[key]) {

triggerStates[key] = { time: timestamp };

} else {

const dwell = timestamp - triggerStates[key].time;

if (dwell > gazeThreshold && !triggerStates[key].flagged) {

console.warn(`[TRIGGER DETECTED] "${key}" fixated for ${dwell}ms`);

triggerStates[key].flagged = true;

}

}

}

});

})

.begin();

};

// Detect flight behavior

window.addEventListener('beforeunload', () => {

console.warn('[FLIGHT EVENT] Tab close or redirect attempt.');

});

window.addEventListener('blur', () => {

console.warn('[BLUR] User switched tabs or minimized.');

});

window.addEventListener('scroll', () => {

console.log('[SCROLL] User scrolled.');

});

window.addEventListener('click', (e) => {

console.log('[CLICK] Position:', e.clientX, e.clientY);

});

</script>

</body>

</html>