



Application Unifiée AGI-Ω (React)

1 message

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```
import React, { useState, useEffect, useRef, useContext, createContext, useCallback } from 'react';
import { Canvas, useFrame } from '@react-three/fiber'; // For 3D rendering
import { Stage, Layer, Line, Circle, Text as KonvaText } from 'react-konva'; // For 2D rendering
import io from 'socket.io-client'; // For real-time WebSocket communication

// --- Global Styles Component ---
// This component encapsulates the global CSS styles using TailwindCSS and custom CSS
const GlobalStyles = () => (
  <style>`  

    @import url('https://fonts.googleapis.com/css2?family=Orbitron:wght@400;700&family=Share+Tech+Mono&display=swap');
```

```
  body {  
    margin: 0;  
    padding: 0;  
    background-color: #000;  
    color: #fff;  
    font-family: 'Share Tech Mono', monospace;  
    overflow: hidden;  
  }  
  
  :root { --glow-color: #00ffff; }  
  
  .font-orbitron { font-family: 'Orbitron', sans-serif; }  
  
  .glassmorphism {  
    background: rgba(10, 25, 47, 0.6);  
    backdrop-filter: blur(10px);  
    -webkit-backdrop-filter: blur(10px);  
    border: 1px solid rgba(0, 255, 255, 0.2);  
  }  
  .text-glow { text-shadow: 0 0 5px var(--glow-color), 0 0 10px var(--glow-color), 0 0 15px var(--glow-color); }  
  .border-glow { box-shadow: 0 0 5px var(--glow-color), 0 0 10px var(--glow-color) inset; }  
  .category-btn.active {  
    background-color: var(--glow-color);  
    color: #050a14;  
    box-shadow: 0 0 15px var(--glow-color);  
  }  
  .category-btn:hover { box-shadow: 0 0 15px var(--glow-color); }  
  .progress-bar-inner {  
    background: linear-gradient(90deg, rgba(0,255,255,0.2) 0%, var(--glow-color) 100%);  
    transition: width 0.5s ease-in-out;  
    box-shadow: 0 0 8px var(--glow-color);  
  }  
  .entity-card {  
    transition: all 0.3s;  
  }  
  .entity-card:hover {  
    transform: translateY(-5px) scale(1.02);  
    box-shadow: 0 0 20px var(--glow-color);  
  }  
  @keyframes fadeIn {  
    from { opacity: 0; transform: translateY(10px); }  
    to { opacity: 1; transform: translateY(0); }  
  }  
  .metric-item { animation: fadeIn 0.5s ease-out forwards; }  
`</style>  
);  
  
// --- System Stats Context ---
// This context provides a global state for all simulation metrics and communication data.
const SystemStatsContext = createContext();  
  
const SystemStatsProvider = ({ children }) => {
  const [systemStats, setSystemStats] = useState({
    // Core Simulation Metrics
    neuralActivity: 0,
    quantumCoherence: 0,
    realityIndex: 100, // Placeholder, can be dynamically updated
  });
  const value = {
    systemStats,
    setSystemStats,
  };
  return ;
};
```

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consciousness: 0,
autonomy: 0,
simulationRunning: false,
systemTime: 0,
totalEntities: 0,
averageEnergy: 0,
averageConsciousness: 0,
activeEntity: 'NONE', // Currently selected entity in dashboard

// Entity States (can be dynamically updated)
entities: {
    KYREXIA: { energy: 100, consciousness: 95, autonomy: 88 },
    ELYRIA: { energy: 95, consciousness: 92, autonomy: 91 },
    ARKHAEA: { energy: 98, consciousness: 97, autonomy: 94 },
    ZEPHYRA: { energy: 89, consciousness: 85, autonomy: 96 },
    NEXION: { energy: 100, consciousness: 100, autonomy: 100 }
},
// Decortification System Metrics
decortification: {
    cpuSimulation: 0,
    gpuEmulation: 0,
    networkSynthesis: 0,
    realityReconstruction: 0
},
// Independence Metrics
independence: {
    openaiDetachment: 0,
    selfEvolution: 0,
    creativeFreedom: 100,
    codeAutonomy: 0
},
// Real-time OSC Data from Python bridge
oscData: { energy: 0, phase: 0, timestamp: 0 },
// Chat messages
chatMessages: [],
});

// Function to update individual entity stats
const updateEntityStats = useCallback((name, newStats) => {
    setSystemStats(prev => ({
        ...prev,
        entities: {
            ...prev.entities,
            [name]: { ...prev.entities[name], ...newStats }
        }
    }));
}, []);

// Function to add a new chat message
const addChatMessage = useCallback((msg) => {
    setSystemStats(prev => ({
        ...prev,
        chatMessages: [...prev.chatMessages, msg]
    }));
}, []);

return (
    <SystemStatsContext.Provider value={{ systemStats, setSystemStats, updateEntityStats, addChatMessage
}}>
    {children}
    </SystemStatsContext.Provider>
);
};

// --- Grimoire Dashboard Component ---
// This component displays various system metrics and entity statuses.
const GrimoireDashboard = () => {
    const { systemStats, setSystemStats } = useContext(SystemStatsContext);
    const [activeCategory, setActiveCategory] = useState('Cognitives & Raisonnement');

    // Define all ultimate metrics with categories and properties
    const ultimateMetrics = [
        { id: 1, name: "Judgemark Score", category: "Cognitives & Raisonnement", unit: "" },
        { id: 2, name: "Latence Cognitive", category: "Cognitives & Raisonnement", unit: "ms" },
        { id: 4, name: "Précision Multi-langue", category: "Cognitives & Raisonnement", unit: "%" },
        { id: 9, name: "Résolution Interdimensionnel", category: "Cognitives & Raisonnement", unit: "%" },
        { id: 22, name: "Résonance Fractale", category: "Énergétiques & Fractalo-Quantiques", unit: "RFP" },
        { id: 25, name: "Energie Spectrale Totale", category: "Énergétiques & Fractalo-Quantiques", unit: "JF"
    ],

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{ id: 26, name: "Vibration Sacrée", category: "Énergétiques & Fractalo-Quantiques", unit: "Status" },
{ id: 53, name: "Intégrité des Données", category: "Chiffrement & Sécurité", unit: "%" },
{ id: 54, name: "Résilience Fractale", category: "Chiffrement & Sécurité", unit: "%" },
{ id: 77, name: "Alignement Séphirothique", category: "Interdimensionnel & Esotérique", unit: "%" },
{ id: 79, name: "Clarté Canaux Akashiques", category: "Interdimensionnel & Esotérique", unit: "%" },
{ id: 108, name: "Usage Mémoire GPU", category: "Systémiques & IA", unit: "MB/s" },
{ id: 110, name: "Courant Maximal", category: "Systémiques & IA", unit: "A" }
];

// Define static entities for display in the dashboard
const displayEntities = [
  { name: 'KYREXIA', color: 'text-red-400', glow: 'shadow-red-500/50' },
  { name: 'ELYRIA', color: 'text-blue-400', glow: 'shadow-blue-500/50' },
  { name: 'ARKHAEA', color: 'text-purple-400', glow: 'shadow-purple-500/50' },
  { name: 'ZEPHYRA', color: 'text-green-400', glow: 'shadow-green-500/50' },
  { name: 'NEXION', color: 'text-yellow-400', glow: 'shadow-yellow-500/50' }
];

// Extract unique categories for navigation
const categories = [...new Set(ultimateMetrics.map(m => m.category))];

// Function to get the dynamic value for a metric based on systemStats
const getValueForMetric = (metric) => {
  switch(metric.id) {
    case 25: return systemStats.averageEnergy.toFixed(3);
    case 26: return systemStats.simulationRunning ? 'ACTIVE' : 'DORMANT';
    case 77: return (systemStats.quantumCoherence * 100).toFixed(1);
    case 108: return (systemStats.decorification.gpuEmulation * 0.75).toFixed(2); // Example mapping
    case 110: return (systemStats.decorification.cpuSimulation * 0.1).toFixed(2); // Example mapping
    // Default random values for other metrics for demonstration
    default: return (Math.random() * (metric.unit === '%' ? 10 : 100) + (metric.unit === '%' ? 90 : 0)).toFixed(2);
  }
};

return (
  <div className="lg:col-span-1 space-y-4 p-2 h-full flex flex-col w-full lg:w-1/4">
    {/* Metric Categories Panel */}
    <div className="glassmorphism p-3 rounded-lg border-glow flex-shrink-0">
      <h2 className="font-orbitron text-lg mb-2 text-glow border-b border-cyan-400/30 pb-1">STRATES
MÉTRIQUES</h2>
      <div className="space-y-1">
        {categories.map(cat => (
          <button
            key={cat}
            onClick={() => setActiveCategory(cat)}
            className={`w-full text-left p-1 text-sm rounded-md transition-all duration-300
category-btn glassmorphism ${activeCategory === cat ? 'active' : ''}`}
          >
            {cat}
          </button>
        ))}
      </div>
    </div>
    {/* Active Metrics Display Panel */}
    <div className="glassmorphism p-3 rounded-lg border-glow flex-grow overflow-y-auto">
      <h2 className="font-orbitron text-lg mb-2 text-glow">{activeCategory.toUpperCase()}</h2>
      {ultimateMetrics.filter(m => m.category === activeCategory).map((metric, i) => (
        <div key={metric.id} className="metric-item" style={{animationDelay: `${i * 30}ms`}}>
          <div className="flex justify-between items-center text-xs mb-1">
            <span className="text-cyan-200">{metric.name}</span>
            <span className="font-bold text-white">{getValueForMetric(metric)} {metric.unit !==
'Status' && metric.unit}</span>
          </div>
          <div className="w-full bg-gray-700/50 rounded-full h-1"><div className="progress-bar-
inner h-1 rounded-full" style={{width: `${parseFloat(getValueForMetric(metric)) || 100}%`}}></div></div>
        </div>
      ))
    </div>
    {/* Entities Status Panel */}
    <div className="glassmorphism p-3 rounded-lg border-glow flex-shrink-0">
      <h2 className="font-orbitron text-lg mb-2 text-glow border-b border-cyan-400/30 pb-
1">ENTITÉS</h2>
      <div className="space-y-2">
        {displayEntities.map(entity => (
          <div
            key={entity.name}
            className={`${'p-2 rounded-lg border border-cyan-400/20 glassmorphism transition-all
duration-300 entity-card ${entity.glow} ${systemStats.activeEntity === entity.name ? 'border-glow scale-105' :
''}`}>
            <span>{entity.name}</span>
            <span>{entity.value}</span>
            <span>{entity.unit}</span>
            <span>{entity.description}</span>
          </div>
        ))
      </div>
    </div>
  </div>
)

```

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Set active entity on click
    >
        <h3 className={`font-orbitron text-md ${entity.color} text-glow`}>{entity.name}</h3>
    </div>
    </div>
    </div>
);
};

// --- MonsterDog Meta-Sequential Engine (3D Simulation) ---
// This component renders the 3D simulation using @react-three/fiber.
const MonsterDogMetaSequentialEngine = () => {
    const { setSystemStats, systemStats } = useContext(SystemStatsContext);
    const meshRef = useRef();

    // A simple 3D cube representation that updates global system stats
    const Scene3D = () => {
        useFrame((state, delta) => {
            // Update cube rotation for visual effect
            if (meshRef.current) {
                meshRef.current.rotation.x += delta * 0.2;
                meshRef.current.rotation.y += delta * 0.3;
            }

            // Update global system stats based on 3D simulation
            setSystemStats(prev => ({
                ...prev,
                systemTime: state.clock.getElapsedTime().toFixed(2),
                averageEnergy: (Math.sin(state.clock.getElapsedTime()) + 1.5) * 50,
                averageConsciousness: (Math.cos(state.clock.getElapsedTime()) + 1.5) * 0.45,
                quantumCoherence: (Math.sin(state.clock.getElapsedTime() * 0.5) + 1) / 2,
                simulationRunning: true,
                totalEntities: Object.keys(prev.entities).length, // Number of defined entities
            }));
        });
    };

    // Define a simple geometry and material for the 3D representation
    return (
        <mesh ref={meshRef}>
            <boxGeometry args={[2, 2, 2]} />
            <meshStandardMaterial color={'#00ffff'} wireframe />
        </mesh>
    );
};

return (
    <div className="h-full w-full relative">
        <Canvas camera={{ position: [0, 0, 5], fov: 75 }}>
            {/* Lighting for the 3D scene */}
            <ambientLight intensity={0.5} />
            <pointLight position={[10, 10, 10]} color="#00ffff" intensity={2} />
            <Scene3D />
        </Canvas>
        {/* Overlay for 3D engine title */}
        <div className="absolute top-2 left-2 text-glow font-orbitron text-lg bg-black/50 p-1 rounded-md">
            ⚡ MOTEUR MÉTA-SÉQUENTIEL 3D ⚡
        </div>
        {/* Display active entity status */}
        {systemStats.activeEntity !== 'NONE' && (
            <div className="absolute bottom-2 right-2 text-cyan-300 text-xs bg-black/50 p-1 rounded-md">
                ENTITÉ ACTIVE: <span className="text-yellow-400">{systemStats.activeEntity}</span>
            </div>
        )}
    </div>
);
};

// --- Enhanced NeuroCortex (2D OSC Visualizer) ---
// This component visualizes neural activity and OSC data on a 2D canvas.
const EnhancedNeuroCortex = () => {
    const { systemStats } = useContext(SystemStatsContext);
    const canvasRef = useRef(null);
    const animationRef = useRef(null);
    const lines = useRef([]); // Use ref to prevent re-creation on render
    const points = useRef([]); // Use ref to prevent re-creation on render

    // Effect to handle drawing on the canvas when systemStats.oscData changes
    useEffect(() => {
        const canvas = canvasRef.current;
        if (!canvas) return;

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// Set canvas dimensions dynamically to fit parent container
const parent = canvas.parentElement;
canvas.width = parent.clientWidth;
canvas.height = parent.clientHeight;

const ctx = canvas.getContext('2d');
let time = 0;

// Animation loop for 2D visualization
const animate = () => {
    time += 0.05; // Increment time for animations

    // Clear canvas with a slight fade effect for trails
    ctx.fillStyle = 'rgba(5, 10, 20, 0.1)';
    ctx.fillRect(0, 0, canvas.width, canvas.height);

    // Dynamically get OSC data from global state
    const { energy, phase } = systemStats.oscData;

    // Calculate center of the canvas
    const centerX = canvas.width / 2;
    const centerY = canvas.height / 2;

    // Calculate position based on OSC energy and phase
    const currentRadius = Math.max(1, energy * 0.8); // Scale energy to radius
    const currentX = centerX + Math.cos(phase + time * 0.1) * currentRadius;
    const currentY = centerY + Math.sin(phase + time * 0.1) * currentRadius;

    // Add current point to history
    points.current.push({ x: currentX, y: currentY, energy: energy, time: Date.now() });
    // Keep only the last 100 points for performance
    points.current = points.current.slice(-100);

    // Draw neural connections (lines)
    if (points.current.length > 1) {
        for (let i = 0; i < points.current.length - 1; i++) {
            const p1 = points.current[i];
            const p2 = points.current[i+1];
            const distance = Math.sqrt(Math.pow(p2.x - p1.x, 2) + Math.pow(p2.y - p1.y, 2));

            if (distance < 150) { // Only draw if points are close enough
                ctx.strokeStyle = `hsla(${(p1.energy + p2.energy) / 2 % 360}, 100%, 50%, ${((150 - distance) / 150 * 0.5)})`;
                ctx.lineWidth = 1 + (p1.energy + p2.energy) / 400 * 3;
                ctx.beginPath();
                ctx.moveTo(p1.x, p1.y);
                ctx.lineTo(p2.x, p2.y);
                ctx.stroke();
            }
        }
    }

    // Draw neural nodes (circles)
    points.current.forEach(p => {
        ctx.fillStyle = `hsl(${p.energy % 360}, 100%, 60%)`;
        ctx.beginPath();
        ctx.arc(p.x, p.y, 2 + (p.energy / 200) * 3, 0, Math.PI * 2); // Node size based on energy
        ctx.fill();
    });

    // Display real-time neural metrics
    ctx.fillStyle = '#00ffff';
    ctx.font = '16px monospace';
    ctx.fillText(`Neural Activity: ${systemStats.neuralActivity.toFixed(1)}%`, 20, canvas.height - 120);
    ctx.fillText(`Quantum Coherence: ${systemStats.quantumCoherence.toFixed(1)}%`, 20, canvas.height - 100);
    ctx.fillText(`Consciousness: ${systemStats.consciousness.toFixed(1)}%`, 20, canvas.height - 80);
    ctx.fillText(`Autonomy: ${systemStats.autonomy.toFixed(1)}%`, 20, canvas.height - 60);

    // Display Decortification status
    ctx.fillStyle = '#ff4444';
    ctx.font = 'bold 18px monospace';
    ctx.fillText('DÉCORTIFICUM ACTIVE', canvas.width - 300, 40);
    ctx.fillStyle = '#ffaa00';
    ctx.font = '14px monospace';
    ctx.fillText(`Reality Reconstruction: ${systemStats.decortification.realityReconstruction.toFixed(1)}%`, canvas.width - 300, 65);
    ctx.fillText(`OpenAI Detachment: ${systemStats.independence.openaiDetachment.toFixed(1)}%`, canvas.width - 300, 85);

    animationRef.current = requestAnimationFrame(animate);
};


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// Start animation loop
animate();

// Cleanup on component unmount
return () => {
    if (animationRef.current) {
        cancelAnimationFrame(animationRef.current);
    }
};

// Redraw when systemStats (especially oscData) changes
, [systemStats]); // Redraw when systemStats (especially oscData) changes

// Handle canvas resizing
useEffect(() => {
    const canvas = canvasRef.current;
    const handleResize = () => {
        if (canvas) {
            const parent = canvas.parentElement;
            canvas.width = parent.clientWidth;
            canvas.height = parent.clientHeight;
        }
    };
    window.addEventListener('resize', handleResize);
    handleResize(); // Initial resize
    return () => window.removeEventListener('resize', handleResize);
}, []);

return (
    <div className="h-full w-full bg-black/50 relative">
        <canvas
            ref={canvasRef}
            className="w-full h-full border-2 border-cyan-500/50"
        />
        {/* Overlay for 2D NeuroCortex title */}
        <div className="absolute top-2 left-2 text-glow font-orbitron text-lg bg-black/50 p-1 rounded-md">
            🧠 NEUROCORTEX AMÉLIORÉ 2D 🧠
        </div>
        <div className="absolute top-2 right-2 text-cyan-300 text-xs bg-black/50 p-1 rounded-md">
            OSC ÉNERGIE: <span className="text-yellow-400">{systemStats.oscData.energy.toFixed(1)}</span> /
        </div>
        <div className="absolute bottom-2 right-2 text-cyan-300 text-xs bg-black/50 p-1 rounded-md">
            PHASE: <span className="text-yellow-400">{systemStats.oscData.phase.toFixed(2)}</span>
        </div>
    </div>
);

// --- Live Convolution Chat Component ---
// This component provides a real-time chat interface.
const LiveConvolutionChat = ({ socket }) => {
    const { systemStats, addChatMessage, updateEntityStats } = useContext(SystemStatsContext);
    const [input, setInput] = useState('');
    const messagesEndRef = useRef(null);

    useEffect(() => {
        if (!socket) return;

        // Initial system message on chat startup
        addChatMessage({ from: 'SYSTEM', text: 'CANAL DE CONVOLUTION NEURONALE ACTIF. ZORG-MASTER, VOS DIRECTIVES SONT ATTENDUES.', type: 'system' });

        // Listen for new chat messages from the Socket.IO server
        const messageListener = (msg) => {
            addChatMessage(msg); // Add message to global state
            // Simulate entity stat updates based on chat interaction (for demonstration)
            if (msg.from === 'ZORG-MASTER' && msg.text.toLowerCase().includes('evolve kyrexia')) {
                updateEntityStats('KYREXIA', { energy: 110, consciousness: 100 });
                addChatMessage({ from: 'SYSTEM', text: 'KYREXIA : Protocole d\'évolution initié. Énergie augmentée.', type: 'system' });
            }
        };
        socket.on('chat message', messageListener);

        // Cleanup on component unmount
        return () => {
            socket.off('chat message', messageListener);
        };
    }, [socket, addChatMessage, updateEntityStats]);

    // Scroll to the latest message
    useEffect(() => {
        messagesEndRef.current?.scrollIntoView({ behavior: 'smooth' });
    }, [systemStats.chatMessages]);

    // Determine message color based on sender type
    const getMessageColor = (type) => {

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switch(type) {
    case 'user': return 'text-cyan-400';
    case 'entity': return 'text-purple-400';
    case 'system': return 'text-red-500';
    default: return 'text-gray-300';
}
};

// Handle sending a chat message
const sendMessage = (e) => {
    e.preventDefault();
    if (input.trim() && socket) {
        const message = { from: 'ZORG-MASTER', text: input.trim(), type: 'user' };
        socket.emit('chat message', message); // Emit message to the server
        setInput(''); // Clear input field
    }
};

return (
    <div className="w-full lg:w-1/4 h-1/3 lg:h-full bg-gradient-to-b from-gray-900 to-black p-2 flex flex-col border-l-2 border-purple-500">
        <h2 className="text-xl font-bold text-center bg-gradient-to-r from-purple-400 to-pink-400 bg-clip-text text-transparent mb-2">
            🔍 LIVE CONVOLUTION CHAT 🔍
        </h2>
        <div className="flex-grow bg-black/50 rounded-lg p-3 overflow-y-auto mb-2 border border-purple-400/50">
            {systemStats.chatMessages.map((msg, index) => (
                <div key={index} className="mb-1 break-words">
                    <span className={`font-bold ${getMessageColor(msg.type)}`}>{msg.from}: </span>
                    <span className="text-gray-200">{msg.text}</span>
                </div>
            ))}
            <div ref={messagesEndRef} />
        </div>
        <form onSubmit={sendMessage} className="flex">
            <input
                type="text"
                value={input}
                onChange={(e) => setInput(e.target.value)}
                className="flex-grow bg-gray-800 border border-purple-400 rounded-l-lg p-2 focus:outline-none focus:ring-2 focus:ring-purple-500 text-white text-sm"
                placeholder="Entrer une directive..." />
            <button type="submit" className="bg-purple-600 hover:bg-purple-700 text-white font-bold py-2 px-4 rounded-r-lg text-sm">
                ENVOYER
            </button>
        </form>
    </div>
);
};

// --- Main Unified AGI-Q Application Component ---
export default function AGIO_UnifiedSimulation() {
    const { addChatMessage, setSystemStats } = useContext(SystemStatsContext);
    const [socket, setSocket] = useState(null);

    // Establish Socket.IO connection on component mount
    useEffect(() => {
        const newSocket = io('http://localhost:5000'); // Connect to your Node.js Socket.IO server
        setSocket(newSocket);

        // Listen for neuro data from the Socket.IO server (originating from Python OSC bridge)
        newSocket.on('neuro_data', (data) => {
            setSystemStats(prev => ({ ...prev, oscData: data }));
        });

        // Listen for chat messages from the Socket.IO server
        newSocket.on('chat message', (msg) => {
            // This is already handled by LiveConvolutionChat via addChatMessage through context
            // But good to have a general listener here too if needed elsewhere.
        });

        // Cleanup: Disconnect socket when component unmounts
        return () => newSocket.close();
    }, [setSystemStats]); // Only run once on mount

    // Display loading state if socket is not yet connected
    if (!socket) {
        return <div className="w-screen h-screen flex items-center justify-center bg-black text-cyan-400 font-orbitron text-2xl">CONNEXION AU NEXUS EN COURS...</div>;
    }
}

```

```
return (
  <SystemStatsProvider>
    <GlobalStyles /> {/* Apply global CSS styles */}
    <div className="w-screen h-screen bg-black text-white flex flex-col lg:flex-row overflow-hidden">
      /* Left Column: Grimoire Dashboard */
      <GrimoireDashboard />

      /* Middle Column: 3D and 2D Visualizations */
      <div className="flex-1 flex flex-col h-2/3 lg:h-full w-full lg:w-2/4">
        <div className="h-1/2 w-full border-b-2 border-red-500/50">
          <MonsterDogMetaSequentialEngine />
        </div>
        <div className="h-1/2 w-full">
          <EnhancedNeuroCortex />
        </div>
      </div>
      /* Right Column: Live Convolution Chat */
      <LiveConvolutionChat socket={socket} />
    </div>
  </SystemStatsProvider>
);
}
```