



# 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
  });
  // ... (rest of the provider logic) ...
  return (
    <SystemStatsContext.Provider value={systemStats}>
      {children}
    </SystemStatsContext.Provider>
  );
};
```

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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.decortification.gpuEmulation * 0.75).toFixed(2); // Example mapping
      case 110: return (systemStats.decortification.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' :
''}`}
              onClick={() => setSystemStats(prev => ({ ...prev, activeEntity: entity.name }))} //

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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);
  }
};
}, [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> /
      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-Ω 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>;
    }
}

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```

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>
);
}

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