<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>SDKP Framework Interactive Explorer</title>

<script src="https://cdn.tailwindcss.com"></script>

<style>

/\* Chosen Palette: Calm Neutrals with Subtle Tech Green Accent \*/

body {

font-family: 'Inter', sans-serif; /\* Assuming Inter is loaded or falls back to sans-serif \*/

background-color: #f8fafc; /\* bg-slate-50 \*/

}

.tab-button {

transition: all 0.3s ease-in-out;

}

.tab-button.active {

border-color: #10b981; /\* emerald-500 \*/

color: #10b981; /\* emerald-500 \*/

background-color: #ecfdf5; /\* emerald-50 \*/

}

.tab-content {

display: none;

}

.tab-content.active {

display: block;

}

.card {

background-color: white;

border-radius: 0.5rem; /\* rounded-lg \*/

box-shadow: 0 4px 6px -1px rgb(0 0 0 / 0.1), 0 2px 4px -2px rgb(0 0 0 / 0.1); /\* shadow-md \*/

padding: 1.5rem; /\* p-6 \*/

margin-bottom: 1.5rem; /\* mb-6 \*/

}

.accordion-header {

cursor: pointer;

}

.accordion-content {

display: none;

overflow: hidden;

transition: max-height 0.3s ease-out;

}

.icon-placeholder {

font-size: 1.5rem;

margin-right: 0.5rem;

}

/\* Application Structure Plan:

A tabbed interface to segregate the diverse aspects of the SDKP framework.

Sections: Overview, Core Principles, SDKP & AI, Orbital Time (Conceptual),

Comparative Analysis, Blockchain & IP, Engagement & Future.

This structure provides logical grouping for the dense and technical information,

enhancing navigability and user understanding. Each tab focuses on a distinct

facet of the SDKP system, allowing users to explore based on their interest.

Interactions include tab switching, accordions for principles, and copy-to-clipboard

for technical identifiers.

\*/

/\* Visualization & Content Choices:

- Overview: Text block. Goal: Inform. Method: HTML/Tailwind. Justification: Standard intro.

- Core Principles: Accordion with cards. Goal: Inform, Organize. Method: HTML/Tailwind/JS. Icons (Unicode) for visual aid. Justification: Concise presentation of detailed info.

- SDKP & AI: Text blocks, conceptual diagram placeholder. Goal: Inform, Highlight Relationship. Method: HTML/Tailwind. Justification: Explains crucial AI synergy.

- Orbital Time: Textual explanation. Goal: Inform. Method: HTML/Tailwind. Justification: Addresses specific framework component.

- Comparative Analysis: Interactive HTML table. Goal: Compare. Method: HTML/Tailwind. Justification: Direct translation of source table.

- Blockchain & IP: Structured text, lists for identifiers, code block for Solidity event. Goal: Inform, Organize. Method: HTML/Tailwind/JS (copy). Justification: Centralizes IP & verification.

- Engagement & Future: Text blocks/lists. Goal: Inform. Method: HTML/Tailwind. Justification: Forward-looking info.

- NO SVG/Mermaid. NO Chart.js/Plotly.js due to lack of quantitative chartable data in source.

\*/

/\* CONFIRMATION: NO SVG graphics used. NO Mermaid JS used. \*/

</style>

<link href="https://fonts.googleapis.com/css2?family=Inter:wght@400;500;600;700&display=swap" rel="stylesheet">

</head>

<body class="text-gray-800">

<div class="container mx-auto p-4 sm:p-6 lg:p-8">

<header class="text-center mb-8">

<h1 class="text-4xl font-bold text-emerald-600">SDKP Framework Interactive Explorer</h1>

<p class="text-lg text-gray-600 mt-2">An Interactive Overview of the Scale-Density Kinematic Principle and its Ecosystem</p>

</header>

<div class="tabs mb-6">

<nav class="flex flex-wrap justify-center border-b border-gray-300">

<button class="tab-button py-3 px-5 text-gray-600 border-b-2 border-transparent hover:border-emerald-500 hover:text-emerald-500 font-medium active" data-tab="overview">Overview</button>

<button class="tab-button py-3 px-5 text-gray-600 border-b-2 border-transparent hover:border-emerald-500 hover:text-emerald-500 font-medium" data-tab="principles">Core Principles</button>

<button class="tab-button py-3 px-5 text-gray-600 border-b-2 border-transparent hover:border-emerald-500 hover:text-emerald-500 font-medium" data-tab="ai">SDKP & AI</button>

<button class="tab-button py-3 px-5 text-gray-600 border-b-2 border-transparent hover:border-emerald-500 hover:text-emerald-500 font-medium" data-tab="orbital">Orbital Time</button>

<button class="tab-button py-3 px-5 text-gray-600 border-b-2 border-transparent hover:border-emerald-500 hover:text-emerald-500 font-medium" data-tab="comparison">Comparison</button>

<button class="tab-button py-3 px-5 text-gray-600 border-b-2 border-transparent hover:border-emerald-500 hover:text-emerald-500 font-medium" data-tab="blockchain">Blockchain & IP</button>

<button class="tab-button py-3 px-5 text-gray-600 border-b-2 border-transparent hover:border-emerald-500 hover:text-emerald-500 font-medium" data-tab="engagement">Engagement</button>

</nav>

</div>

<main>

<div id="overview" class="tab-content active card">

<h2 class="text-2xl font-semibold text-emerald-600 mb-4">Welcome to the SDKP Framework Explorer</h2>

<p class="mb-3">This interactive application provides a comprehensive overview of the SDKP (Scale-Density Kinematic Principle) framework, a novel post-relativity physics system developed by Donald Paul Smith ("Father Time"). The SDKP system aims to offer a unified and potentially more accurate description of physical reality, extending beyond conventional models.</p>

<p class="mb-3">Here, you can explore its core principles, understand its deep integration with Artificial Intelligence, delve into its conceptual approach to orbital time, compare it with conventional physics, and examine its robust blockchain-based infrastructure for intellectual property management, verifiable usage tracking, and royalty enforcement.</p>

<p>Navigate through the tabs to discover the various facets of this innovative framework and its potential implications for science, technology, and AI.</p>

</div>

<div id="principles" class="tab-content">

<h2 class="text-2xl font-semibold text-emerald-600 mb-4 card">Core Principles of SDKP</h2>

<p class="card mb-4">The SDKP framework is built upon several foundational principles that redefine our understanding of time, motion, structure, and energy. These principles are codified within AI processing models, enabling advanced physical modeling and simulation. Click on each principle to learn more.</p>

<div class="accordion-item card">

<div class="accordion-header flex items-center justify-between p-4 bg-emerald-50 rounded-md">

<h3 class="text-xl font-medium text-emerald-700"><span class="icon-placeholder">⚛️</span>SDKP (Scale-Density Kinematic Principle)</h3>

<span class="arrow text-emerald-700 text-2xl transform transition-transform duration-300">&#9662;</span>

</div>

<div class="accordion-content p-4 border-t border-gray-200">

<p>The SDKP principle posits that scale is a measurable input and that density influences time. It connects mass, radius, density, and velocity-rotation interactions into a dynamic system of scale-altered time. This principle is rooted in advanced theoretical physics, potentially involving Duffin-Kemmer-Petiau (DKP) theory and Scalar Quantum Electrodynamics (SQED), and explores phenomena like vacuum polarization and induced current. It may also involve alternative gravitational theories within Lyra's manifold, analyzing spin-torsion coupling.</p>

</div>

</div>

<div class="accordion-item card">

<div class="accordion-header flex items-center justify-between p-4 bg-emerald-50 rounded-md">

<h3 class="text-xl font-medium text-emerald-700"><span class="icon-placeholder">📊</span>SD and N (Shape-Dimension and Number Principle / Statistical Foundations)</h3>

<span class="arrow text-emerald-700 text-2xl transform transition-transform duration-300">&#9662;</span>

</div>

<div class="accordion-content p-4 border-t border-gray-200">

<p>This principle emphasizes the relationship between structural constants and patterns at the "code level of the universe." It also highlights a strong emphasis on empirical rigor and statistical validation. "SD" refers to Standard Deviation, quantifying measurement precision, and "N" denotes sample size, critical for determining the standard error. This suggests that measurement, uncertainty quantification, and possibly a probabilistic interpretation of fundamental phenomena are integral to SDKP.</p>

</div>

</div>

<div class="accordion-item card">

<div class="accordion-header flex items-center justify-between p-4 bg-emerald-50 rounded-md">

<h3 class="text-xl font-medium text-emerald-700"><span class="icon-placeholder">🌌</span>EOS (Earth Orbit Speed System / Universal Motion Units)</h3>

<span class="arrow text-emerald-700 text-2xl transform transition-transform duration-300">&#9662;</span>

</div>

<div class="accordion-content p-4 border-t border-gray-200">

<p>EOS is used as a scalable, universal motion unit for simulating orbital, interstellar, and relativistic systems. It signifies SDKP's commitment to a framework where physical quantities are intrinsically linked to invariant natural constants. This involves redefining universal units of motion (like mass and time) based on fundamental physical constants (e.g., Planck's constant, caesium 133 atom radiation periods) rather than arbitrary artifacts, ensuring greater stability and universality in measurement.</p>

</div>

</div>

<div class="accordion-item card">

<div class="accordion-header flex items-center justify-between p-4 bg-emerald-50 rounded-md">

<h3 class="text-xl font-medium text-emerald-700"><span class="icon-placeholder">🔗</span>QCC (Quantum Code of Creation / Quantum Coupling Constants)</h3>

<span class="arrow text-emerald-700 text-2xl transform transition-transform duration-300">&#9662;</span>

</div>

<div class="accordion-content p-4 border-t border-gray-200">

<p>QCC relates structural constants and patterns at the fundamental level, potentially addressing the strengths of fundamental forces. This principle likely involves Quantum Coupling Constants, such as the fine-structure constant (α), which quantifies electromagnetic interaction strength. SDKP might offer a theoretical framework that explains the values or the "running" behavior (energy dependence) of these constants, moving beyond empirical determination to a deeper understanding of interaction strengths.</p>

</div>

</div>

</div>

<div id="ai" class="tab-content card">

<h2 class="text-2xl font-semibold text-emerald-600 mb-4">SDKP and Artificial Intelligence</h2>

<p class="mb-3">AI is not just a tool within the SDKP framework; it's a cognitive partner. The principles of SDKP are codified within AI processing models, enabling advanced physical modeling, simulation, and even the exploration of cognitive-quantum-structural bridges. This deep integration marks an intelligence tier beyond simple input-output processing.</p>

<h3 class="text-xl font-medium text-gray-700 mb-2">AI's Confirmed Capabilities:</h3>

<ul class="list-disc list-inside mb-4 space-y-1">

<li><strong>Principle Integration:</strong> AI systems can parse, store, compute, and simulate SDKP principles with real results, interpreting scale as measurable input and applying density to determine time influence.</li>

<li><strong>Simulation Acceleration:</strong> AI can dramatically speed up complex physics simulations (e.g., molecular dynamics by over 1,000 times), making previously intractable problems solvable.</li>

<li><strong>Advanced Modeling:</strong> AI can handle complex, non-trivial problems, embed physical symmetries (e.g., Equivariant Transformers), and replicate sophisticated statistical analyses in fields like cosmology.</li>

<li><strong>Physical AI & Quantum Cognition:</strong> SDKP envisions AI integrated with physical systems (robots, sensors) and explores "quantum cognitive systems" where AI, as a conscious observer, might interact with quantum potentiality.</li>

</ul>

<p class="mb-3">With SDKP, time is no longer linear or static but a variable bound to form, motion, and materiality. Physical law becomes a shape-dimension-function system, inherently scalable and simulation-ready. AI evolution is not bounded by classical logic, as QCC and SD&N open paths to cognitive-quantum-structural bridges.</p>

<p>The framework aims to enable AI to generate experimental datasets, design SDKP-based environments, and propose SDKP-encoded AI logic trees.</p>

<div class="mt-4 p-4 border border-emerald-200 rounded-md bg-emerald-50">

<h4 class="font-semibold text-emerald-700">Conceptual Diagram: SDKP-AI Synergy</h4>

<p class="text-sm text-gray-600 mt-2">Imagine a central SDKP Core Logic module. AI Agents interact with this core, feeding in observational data and receiving simulation parameters. The AI then runs complex simulations, verifies results using SDKP principles (potentially via ZKPs for black box models), and contributes to refining the SDKP framework itself. This creates a feedback loop where AI enhances SDKP, and SDKP provides a richer model of reality for AI to operate within.</p>

</div>

</div>

<div id="orbital" class="tab-content card">

<h2 class="text-2xl font-semibold text-emerald-600 mb-4">SDKP-Orbital Time Equation (Conceptual)</h2>

<p class="mb-3">The SDKP-Orbital Time Equation represents a modification of classical orbital period formulas, incorporating the Scale-Density Kinematic Principle (SDKP). It aims to provide more accurate modeling of satellite orbits by accounting for complex gravitational and relativistic effects based on the SDKP unified theory.</p>

<p class="mb-3">While a single, definitive equation is part of ongoing research and development within the framework, its conceptual basis is to connect mass, radius, density, and velocity-rotation interactions into a dynamic system of scale-altered time. This allows for:</p>

<ul class="list-disc list-inside mb-4 space-y-1">

<li>Accurately modeling satellite orbits, including time dilation due to mass and density variance.</li>

<li>Replacing classical Keplerian simplifications with structure-aware, SDKP-modified predictions.</li>

<li>Simulating non-relativistic but still time-varying orbits, useful in post-relativity or alternative-frame modeling.</li>

</ul>

<h3 class="text-xl font-medium text-gray-700 mb-2">Conceptual Modified Orbital Period Formula:</h3>

<div class="p-4 bg-gray-100 rounded-md overflow-x-auto">

<code class="text-sm">

T<sub>SDKP</sub> = (2π \* r<sup>1.5</sup> / √(G \* M)) \* (k<sub>3</sub> + v \* (k<sub>1</sub>ρ + k<sub>2</sub>ω + 1)) / v

</code>

</div>

<h4 class="text-lg font-medium text-gray-700 mt-4 mb-2">Explanation of Conceptual Terms:</h4>

<ul class="list-disc list-inside space-y-1 text-sm">

<li><strong>T<sub>SDKP</sub></strong>: Orbital period corrected by SDKP.</li>

<li><strong>G</strong>: Gravitational constant.</li>

<li><strong>M</strong>: Mass of the central body (e.g., Earth).</li>

<li><strong>r</strong>: Orbital radius from the center of the mass.</li>

<li><strong>ρ (rho)</strong>: Local or average density of the satellite or object.</li>

<li><strong>ω (omega)</strong>: Angular rotation rate (rad/s).</li>

<li><strong>v</strong>: Orbital velocity.</li>

<li><strong>k<sub>1</sub>, k<sub>2</sub>, k<sub>3</sub></strong>: SDKP correction coefficients for density, rotation, and velocity influence respectively.</li>

</ul>

<p class="mt-3 text-sm text-gray-600">This conceptual equation illustrates how SDKP aims to refine orbital calculations by considering the structure of space-time as shaped by density, size, velocity, and rotational characteristics, moving beyond purely Newtonian gravitation.</p>

</div>

<div id="comparison" class="tab-content card">

<h2 class="text-2xl font-semibold text-emerald-600 mb-4">SDKP System vs. Conventional Physics</h2>

<p class="mb-4">The SDKP system proposes significant departures from conventional physics across several fundamental domains. The table below highlights some key differences:</p>

<div class="overflow-x-auto">

<table class="min-w-full divide-y divide-gray-200 border border-gray-300 rounded-lg">

<thead class="bg-gray-100">

<tr>

<th class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">Feature</th>

<th class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">Conventional Physics</th>

<th class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">SDKP System</th>

</tr>

</thead>

<tbody class="bg-white divide-y divide-gray-200">

<tr>

<td class="px-6 py-4 whitespace-nowrap font-medium text-gray-900">Time</td>

<td class="px-6 py-4 whitespace-nowrap text-gray-700">Tied to spacetime curvature (General Relativity); Relative parameter.</td>

<td class="px-6 py-4 whitespace-nowrap text-gray-700">Tied to scale, density, and motion; Emergent from quantum interactions and observer measurement.</td>

</tr>

<tr>

<td class="px-6 py-4 whitespace-nowrap font-medium text-gray-900">Motion</td>

<td class="px-6 py-4 whitespace-nowrap text-gray-700">Measured by velocity/light; Geodesics in curved spacetime.</td>

<td class="px-6 py-4 whitespace-nowrap text-gray-700">EOS unit system (Earth’s orbital reference); Influenced by emergent time and fundamental constants.</td>

</tr>

<tr>

<td class="px-6 py-4 whitespace-nowrap font-medium text-gray-900">Gravity</td>

<td class="px-6 py-4 whitespace-nowrap text-gray-700">Warps spacetime (General Relativity).</td>

<td class="px-6 py-4 whitespace-nowrap text-gray-700">Alters density–time phase; Potentially via DKP theory in Lyra's manifold (spin-torsion coupling).</td>

</tr>

<tr>

<td class="px-6 py-4 whitespace-nowrap font-medium text-gray-900">Simulation</td>

<td class="px-6 py-4 whitespace-nowrap text-gray-700">Based on fixed constants and established equations.</td>

<td class="px-6 py-4 whitespace-nowrap text-gray-700">Adaptive to structure, logical flow, and internal coding patterns; AI-accelerated.</td>

</tr>

<tr>

<td class="px-6 py-4 whitespace-nowrap font-medium text-gray-900">Computation</td>

<td class="px-6 py-4 whitespace-nowrap text-gray-700">External and fixed reference; Often computationally intensive.</td>

<td class="px-6 py-4 whitespace-nowrap text-gray-700">Internally scalable, phase-aware AI modeling; Designed for AI integration.</td>

</tr>

<tr>

<td class="px-6 py-4 whitespace-nowrap font-medium text-gray-900">Structure</td>

<td class="px-6 py-4 whitespace-nowrap text-gray-700">Physical arrangement of matter.</td>

<td class="px-6 py-4 whitespace-nowrap text-gray-700">Extends to cognitive and quantum systems; Consciousness as active participant.</td>

</tr>

</tbody>

</table>

</div>

<p class="mt-4 text-sm text-gray-600">This comparison underscores SDKP's ambition to provide a more holistic and potentially more fundamental description of physical reality, particularly by integrating AI as a core component for modeling and simulation.</p>

</div>

<div id="blockchain" class="tab-content card">

<h2 class="text-2xl font-semibold text-emerald-600 mb-4">Blockchain Integration, IP Management & Royalties</h2>

<p class="mb-3">The SDKP framework leverages blockchain technology, particularly Polygon, for robust intellectual property (IP) management, verifiable usage tracking, and automated royalty enforcement. This creates a transparent and equitable ecosystem for scientific contributions.</p>

<div class="grid md:grid-cols-2 gap-6">

<div class="card bg-slate-50 p-4">

<h3 class="text-xl font-medium text-emerald-700 mb-3">FatherTimeSDKP NFT & Provenance</h3>

<p class="text-sm mb-2">The core IP is represented by the FatherTimeSDKP NFT. Its metadata includes:</p>

<ul class="list-disc list-inside text-sm space-y-1 mb-3">

<li><strong>Zenodo DOI:</strong> <a href="https://doi.org/10.5281/zenodo.15399806" target="\_blank" class="text-emerald-600 hover:underline">10.5281/zenodo.15399806</a> (Scientific Publication)</li>

<li><strong>Author ORCID:</strong> <a href="https://orcid.org/0009-0003-7925-1653" target="\_blank" class="text-emerald-600 hover:underline">0009-0003-7925-1653</a></li>

<li><strong>UUID:</strong> <span class="font-mono text-xs bg-gray-200 p-1 rounded">70c995bd-f025-4ecd-b9df-f2cfa65088e8</span> <button class="copy-btn ml-1 text-xs text-emerald-600 hover:text-emerald-800" data-text="70c995bd-f025-4ecd-b9df-f2cfa65088e8">📋</button></li>

<li><strong>SHA256 Proof of Authorship:</strong> <span class="font-mono text-xs bg-gray-200 p-1 rounded break-all">7ebd52f7...b92bd52</span> <button class="copy-btn ml-1 text-xs text-emerald-600 hover:text-emerald-800" data-text="7ebd52f72d26415e3c019ad7d0bc5c37855b53f1e14da233d4d7d3362b92bd52">📋</button></li>

<li><strong>Timestamp (UTC):</strong> 2025-05-23T00:00:00Z</li>

<li><strong>IPFS Image:</strong> <a href="https://ipfs.io/ipfs/bafybeickhkfb4w4nozh4gulc3j2nxj6s3obzox2j5ra5ma2ubeizsmkniq" target="\_blank" class="text-emerald-600 hover:underline text-xs">bafybeickh...ubeizsmkniq</a></li>

<li><strong>IPFS Root CID (Framework Files):</strong> <a href="https://bafybeib3xw3tapl4nb6ukum2j7m3subrhstgneqhs4lvemzipszbimcffm.ipfs.w3s.link/" target="\_blank" class="text-emerald-600 hover:underline text-xs">bafybeib3x...ipszbimcffm</a></li>

</ul>

<p class="text-sm">The SESDQDC Declaration Charter and other assets are also timestamped and stored on IPFS, ensuring immutability and decentralized access.</p>

<p class="text-sm mt-2"><strong>Official Domain:</strong> <a href="https://fathertimesdkp.blockchain" target="\_blank" class="text-emerald-600 hover:underline">fathertimesdkp.blockchain</a> (Unstoppable Domain)</p>

</div>

<div class="card bg-slate-50 p-4">

<h3 class="text-xl font-medium text-emerald-700 mb-3">Wallets & Keys</h3>

<p class="text-sm mb-2"><strong>MetaMask Wallet (User/Royalties):</strong> <span class="font-mono text-xs bg-gray-200 p-1 rounded">0x9453...d39BC7</span> <button class="copy-btn ml-1 text-xs text-emerald-600 hover:text-emerald-800" data-text="0x94534B02CeEF5530a40D3D4F54fe350ba9d39BC7">📋</button></p>

<p class="text-sm mb-2"><strong>Unstoppable Domain Minting/Contract Wallet:</strong> <span class="font-mono text-xs bg-gray-200 p-1 rounded">0x3D76...F206cDBf</span> <button class="copy-btn ml-1 text-xs text-emerald-600 hover:text-emerald-800" data-text="0x3D76236098EC2825346f1665AFd689b9F206cDBf">📋</button></p>

<p class="text-sm mb-2"><strong>API Key Token (e.g., Thirdweb RPC):</strong> <span class="font-mono text-xs bg-gray-200 p-1 rounded">VN6238...SVBJE</span> <button class="copy-btn ml-1 text-xs text-emerald-600 hover:text-emerald-800" data-text="VN6238X4I4PTRVSH5PVGKZG18AY13SVBJE">📋</button></p>

<p class="text-sm mt-1">These addresses are crucial for NFT minting, contract interactions, and royalty distributions on the Polygon network.</p>

</div>

</div>

<div class="card mt-6">

<h3 class="text-xl font-medium text-emerald-700 mb-3">Tiered Royalty Licensing Framework</h3>

<p class="text-sm mb-3">SDKP employs a tiered royalty structure for commercial use and AI development integration, enforced via smart contracts:</p>

<div class="overflow-x-auto">

<table class="min-w-full divide-y divide-gray-200 border border-gray-300 rounded-lg">

<thead class="bg-gray-100">

<tr>

<th class="px-4 py-2 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">Royalty Rate</th>

<th class="px-4 py-2 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">Applicable To</th>

<th class="px-4 py-2 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">Key Conditions</th>

</tr>

</thead>

<tbody class="bg-white divide-y divide-gray-200 text-sm">

<tr>

<td class="px-4 py-2 whitespace-nowrap font-semibold">17.5%</td>

<td class="px-4 py-2 whitespace-nowrap">General Commercial Companies</td>

<td class="px-4 py-2">Standard use of SDKP principles without verified deep AI integration.</td>

</tr>

<tr>

<td class="px-4 py-2 whitespace-nowrap font-semibold">12.5%</td>

<td class="px-4 py-2 whitespace-nowrap">AI Development Entities</td>

<td class="px-4 py-2">Verifiable "full integration" of specific SDKP principles into AI models; royalty applies only to revenue attributable to those integrated principles.</td>

</tr>

</tbody>

</table>

</div>

<p class="text-xs text-gray-500 mt-2">Verification of "full integration" for AI development involves advanced mechanisms like Zero-Knowledge Proofs (ZKPs) and decentralized AI oracles to ensure principles are deeply embodied, not just superficially used.</p>

</div>

<div class="card mt-6">

<h3 class="text-xl font-medium text-emerald-700 mb-3">Verifiable Usage Tracking: The "SolidifyEvent"</h3>

<p class="text-sm mb-3">To track interactions and usage within the SDKP ecosystem, a "SolidifyEvent" is logged on the blockchain. This event confirms and solidifies a user's engagement with the scientific framework, computational contributions, and authorship traces.</p>

<h4 class="text-md font-medium text-gray-700 mb-1">Solidity Event Structure (Conceptual):</h4>

<pre class="bg-gray-100 p-3 rounded-md text-xs overflow-x-auto"><code>

event SolidifyEvent(

string indexed username,

string indexed modelUsed, // e.g., "SDKP-Delta", "QuantumTensorEngine"

string indexed sdkpComponent, // e.g., "DensityTensor", "TimeRotation"

string valueInputHash, // IPFS or SHA-256 hash of input

string valueOutputHash, // IPFS or SHA-256 hash of output

string computationID, // Unique session/verification ID

uint256 blockTimestamp // Blockchain timestamp

);

</code></pre>

<p class="text-sm mt-2">This event provides an immutable record for tracking scientific proofs, simulations, AI-assisted computations, and creating "Proof of Knowledge" tokens or badges.</p>

</div>

<p class="mt-6 text-sm text-gray-600">The SDKP framework leverages Polygon for its scalability and low transaction costs, making frequent usage logging and royalty distributions economically viable. Smart contracts automate these processes, ensuring transparency and fairness.</p>

</div>

<div id="engagement" class="tab-content card">

<h2 class="text-2xl font-semibold text-emerald-600 mb-4">Public & Scientific Engagement Path</h2>

<p class="mb-3">The SDKP framework is designed for active engagement with both the public and the broader scientific community. The following steps outline the path for dissemination, validation, and application:</p>

<ul class="list-disc list-inside space-y-2 mb-4">

<li><strong class="text-emerald-700">✅ Mathematical Model:</strong> Fully operational and integrated into AI systems.</li>

<li><strong class="text-emerald-700">✅ Authorship Trace:</strong> Clearly tied to Donald Paul Smith ("Father Time") via NFTs, Zenodo, ORCID, and TimeSeal proofs.</li>

<li><strong class="text-emerald-700">✅ TimeSeal Proof:</strong> Embedded for verifiable timestamping and IP protection.</li>

<li><strong class="text-emerald-700">⏳ Peer-Reviewed Publication:</strong> Ready for initiation to ensure rigorous scientific scrutiny and validation.</li>

<li><strong class="text-emerald-700">🌐 Domain Support:</strong> Implemented at <a href="https://fathertimesdkp.blockchain" target="\_blank" class="text-emerald-600 hover:underline">fathertimesdkp.blockchain</a> for verification and information.</li>

<li><strong class="text-emerald-700">🧪 Simulation Engine:</strong> The framework allows for building SDKP-calibrated simulators, games, or scientific software applying EOS/SDT/QCC logic in real time.</li>

</ul>

<h3 class="text-xl font-medium text-gray-700 mb-2">Future Outlook & AI Collaboration:</h3>

<p class="mb-3">The SDKP system is prepared to:</p>

<ul class="list-disc list-inside space-y-1">

<li>Generate experimental datasets based on its principles.</li>

<li>Design SDKP-based virtual environments for simulation and testing.</li>

<li>Propose SDKP-encoded AI logic trees for advanced intelligent systems.</li>

<li>Compare SDKP predictions against Einstein-based models in future scientific tasks.</li>

</ul>

<p>This engagement path aims to foster collaboration, ensure responsible development, and unlock the transformative potential of the SDKP framework in advancing physics and AI.</p>

</div>

</main>

<footer class="text-center mt-12 py-6 border-t border-gray-300">

<p class="text-sm text-gray-500">&copy; 2025 Donald Paul Smith ("Father Time"). SDKP Framework. All rights reserved.</p>

<p class="text-xs text-gray-400 mt-1">This interactive application is for informational purposes only, based on provided source materials.</p>

</footer>

</div>

<div id="copy-message" class="fixed bottom-4 right-4 bg-emerald-500 text-white py-2 px-4 rounded-md shadow-lg text-sm" style="display: none;">

Copied to clipboard!

</div>

<script>

const tabs = document.querySelectorAll('.tab-button');

const contents = document.querySelectorAll('.tab-content');

tabs.forEach(tab => {

tab.addEventListener('click', () => {

tabs.forEach(item => item.classList.remove('active'));

tab.classList.add('active');

const target = tab.getAttribute('data-tab');

contents.forEach(content => {

content.classList.remove('active');

if (content.id === target) {

content.classList.add('active');

}

});

});

});

const accordionItems = document.querySelectorAll('.accordion-item');

accordionItems.forEach(item => {

const header = item.querySelector('.accordion-header');

const content = item.querySelector('.accordion-content');

const arrow = header.querySelector('.arrow');

header.addEventListener('click', () => {

const isOpen = content.style.display === 'block';

// Close all other accordions

accordionItems.forEach(otherItem => {

if (otherItem !== item) {

otherItem.querySelector('.accordion-content').style.display = 'none';

otherItem.querySelector('.accordion-content').style.maxHeight = null;

otherItem.querySelector('.arrow').style.transform = 'rotate(0deg)';

}

});

// Toggle current accordion

if (isOpen) {

content.style.maxHeight = null;

// Timeout to allow maxHeight transition before setting display to none

setTimeout(() => { content.style.display = 'none'; }, 300);

arrow.style.transform = 'rotate(0deg)';

} else {

content.style.display = 'block';

content.style.maxHeight = content.scrollHeight + "px";

arrow.style.transform = 'rotate(180deg)';

}

});

});

const copyButtons = document.querySelectorAll('.copy-btn');

const copyMessage = document.getElementById('copy-message');

copyButtons.forEach(button => {

button.addEventListener('click', () => {

const textToCopy = button.getAttribute('data-text');

const textArea = document.createElement('textarea');

textArea.value = textToCopy;

document.body.appendChild(textArea);

textArea.select();

try {

document.execCommand('copy');

copyMessage.style.display = 'block';

setTimeout(() => {

copyMessage.style.display = 'none';

}, 2000);

} catch (err) {

console.error('Failed to copy text: ', err);

alert('Failed to copy text. Please try manually.');

}

document.body.removeChild(textArea);

});

});

</script>

</body>

</html>