

## About FeverTokens:

FeverTokens positions itself to be the leading fabric of advanced, application-level blockchain protocols, powered with a secure, open-source, and package-driven smart contract infrastructure.

FeverTokens' protocol builder already underpins highly-scalable and sophisticated tokenization projects. Our unique deeptech approach enables both functional scalability and enterprise-grade, built-in security with formal verification.

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## Projects:

### 1. Formal Modeling of Actus-Derived Specifications for Secure Financial Contracts

**Time Allocation:** 70%

**Objective:** Build a formal meta-model of the Actus standard to ensure the by-design security, correctness, and robustness of Actus-derived specifications of smart financial contracts as well as their smart contract implementations by leveraging the B-method and its formal verification tools.

**Rationale:** With the growing adoption of sophisticated smart contract architectures in finance, ensuring their correctness at scale is imperative. Errors can lead to significant monetary losses and the current auditing approaches cannot guarantee security at scale. Formal verification brings robust, flexible, and scalable ways to build secure-by-design models and their subsequent smart contract implementations.

### 2. An Open-source Risk Management System For Actus Financial Contracts

**Time Allocation:** 30%

**Objective:** Design the high-level architecture of an open-source risk management system for Actus financial contracts.

**Rationale:**

- **Regulatory Compliance:** A risk management system will enable regular risk assessments and simulations as mandated or required by financial regulators. This proactive approach ensures ongoing compliance and avoids potential pitfalls in financial operations.
- **Investment Notation:** By basing notations on these financial risk assessments, investors are equipped with actionable insights, enabling informed decisions on where best to invest.
- **Portfolio Balancing:** Such a system will allow for on-chain automatic portfolio balancing (utilizing oracles or Zero-Knowledge Proofs) or off-chain static portfolio balancing. By automating this process, stakeholders can ensure that portfolios remain optimized according to real-time market conditions.

### 3. Integrating Actus with ISDA Common Domain Model (ISDA CDM) [Optional]

**Objective:** Integrate Actus with ISDA's CDM to ensure consistent and standardized representations of derivatives and underlying events in the financial market.

**Rationale:** This integration will bridge the gap between traditional financial systems and the emerging decentralized finance space. Combining a well-detailed domain model (CDM) with a language-agnostic algorithmic implementation of financial contract agreements will ensure interoperability and foster wider adoption and enhance the efficiency of financial operations on blockchain platforms.