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## **Harnessing Blockchain for the Ecommerce Industry Unlocking Efficiency, Trust, and Growth**

### **Background and Rationale**

The world of ecommerce is rapidly evolving, driven by technological advancements and changing consumer behavior. As the ecommerce industry continues to expand, it faces various challenges related to data security, supply chain transparency, and trust between parties. Blockchain technology emerges as a potential solution to address these challenges, revolutionizing the ecommerce landscape for all stakeholders.

With a growing number of online shoppers and businesses, harnessing blockchain's capabilities can foster a more efficient, secure, and trustworthy ecommerce ecosystem. This transformative potential calls for innovative applications of blockchain in the ecommerce industry, providing opportunities for businesses and consumers alike.

### **Challenge**

The challenge aims to explore and develop innovative blockchain-based solutions that enhance commerce regulation by facilitating secure, transparent, and efficient transactions between different parties in the shopping ecosystem, including retail businesses, regulators, and other stakeholders. Participants will be required to design blockchain solutions to address the specific area of e-receipts while considering broader regulatory benefits.

### **Problem Statement:**

Develop a blockchain-based system to create and manage tamper-proof e-receipts that can be securely shared between buyers and sellers. Ensure the integrity and immutability of e-receipts to reduce fraud and disputes.

### **Guidelines:**

1. Participants are encouraged to leverage existing blockchain platforms or create their own custom blockchain solutions, ensuring scalability and performance in the e-commerce context.
2. The solutions should comply with relevant privacy laws and data protection regulations to safeguard users' sensitive information.
3. Consider interoperability with existing financial systems and regulatory frameworks to facilitate the adoption of the proposed solutions.

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4. Participants should also propose methods to address scalability challenges to handle a high volume of transactions efficiently.

**Criteria:**

1. Innovation: The creativity and originality of the proposed blockchain solutions in addressing the specific e-commerce regulation challenges and potential broader regulatory benefits.
2. Functionality: The extent to which the solutions effectively meet the requirements and offer practical usability in real-world e-commerce scenarios.
3. Security: The robustness and resilience of the blockchain solution against potential security threats and vulnerabilities.
4. Scalability: The ability of the proposed solution to handle a large number of transactions and accommodate future growth.
5. Impact: The potential positive impact of the solution on enhancing e-commerce regulation and promoting a fairer marketplace for businesses.

**Case Studies**

- Walmart-IBM Food Trust: Walmart and IBM are using blockchain to track food products from farm to shelf. This includes the ability to generate and share e-receipts with consumers. [Walmart-IBM Food Trust e-receipts case study](#)
- Provenance: Provenance is a blockchain-based platform that allows consumers to track the provenance of their food. Provenance uses the blockchain to track the movement of food from farm to fork, which allows consumers to see where their food came from and how it was produced. [provenance.org](#)
- Everledger: Everledger is a blockchain-based platform that tracks the provenance of diamonds. Everledger uses the blockchain to track the movement of diamonds from mine to retailer, which allows consumers to see where their diamonds came from and how they were mined. [Everledger e-receipts case study](#)
- Sodexo: Sodexo is a food services company that is using blockchain to track food safety. Sodexo uses the blockchain to track the movement of food from supplier to consumer, which allows the company to identify and address food safety risks more quickly. [Sodexo.com](#)

**Existing Blockchain Platforms**

- ConsenSys: ConsenSys is a blockchain technology company that is working with a number of retailers to develop e-receipts solutions. ConsenSys's solutions use the

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Ethereum blockchain to track e-receipts, which makes them more secure and transparent. [ConsenSys e-receipts case study](#)

- IBM: IBM is a technology company that is working with a number of retailers to develop e-receipts solutions. IBM's solutions use the Hyperledger Fabric blockchain to track e-receipts, which makes them more secure and [IBM e-receipts case study](#)
- VeChain: VeChain is a blockchain technology company that is working with a number of retailers to develop e-receipts solutions. VeChain's solutions use the VeChainThor blockchain to track e-receipts, which makes them more secure and transparent. [VeChain Whitepaper](#)

### Potential Benefits to Sponsors

1. **Pioneering Role:** Be recognized as a leader in blockchain technology in the industry, leading the way towards a more secure and efficient digital infrastructure.
2. **Exploring Opportunities:** Gain exposure to cutting-edge ideas in blockchain applications, potentially identifying investment opportunities and strategic partnerships.
3. **Brand Visibility and Reputation:** Establish a positive brand image by supporting an event focused on driving progress and innovation in the blockchain space.
4. **Networking and Collaboration:** Engage with participants, organizers, and other sponsors, fostering potential collaborations, partnerships, and talent acquisition.

We welcome you to participate in this hackathon as we collectively shape the future of ecommerce through blockchain technology. Your involvement will demonstrate your commitment to fostering technological advancement and driving the ecommerce industry towards greater efficiency, trust, and growth.