**🏗️ BlockPass — Decentralized Event Ticketing**

**Project Overview:**  
BlockPass is a pioneering decentralized platform built on the Polkadot blockchain, revolutionizing event ticketing through the use of non-fungible tokens (NFTs). Our mission is to address the prevalent issues of ticket scalping, price manipulation, and counterfeit tickets that plague the traditional event ticketing industry.

**Problem Statement:**  
The traditional event ticketing industry suffers from various challenges, including unfair ticket pricing, lack of transparency, and counterfeit ticketing. These issues often lead to frustrated fans, inflated ticket prices, and a lack of trust in ticketing systems.

**Solution:**  
BlockPass provides a decentralized solution to these issues by leveraging blockchain technology. Our platform ensures transparent and fair ticket pricing, prevents scalping, and guarantees the authenticity of event tickets.

**Key Features:**

**Transparent Pricing:** Dynamic ticket pricing based on real-time market conditions.

**Fair Access:** Unique NFT-based tickets and a first-come-first-served model prevent scalpers and ensure fair access for genuine fans.

**Immutable Records:** All ticket transactions are recorded on the blockchain, creating a transparent and tamper-proof ticket ownership and sales history ledger.

**Motivation:**  
The motivation behind BlockPass stems from real-world challenges highlighted in articles like this [CBC News report](https://www.cbc.ca/news/entertainment/concert-tickets-broken-1.7185987), which exposes the broken nature of the current event ticketing system. Instances of ticket scalping, inflated prices, and counterfeit tickets have disillusioned fans and undermined the integrity of the live entertainment industry. BlockPass aims to restore trust and fairness to event ticketing by providing a decentralized alternative that prioritizes transparency, accessibility, and authenticity.

**Impact:**  
BlockPass aims to disrupt the event ticketing industry, empowering organizers, artists, and attendees alike. By eliminating intermediaries, reducing ticket fraud, and ensuring fair pricing, we are reshaping the future of event ticketing for the better.

**Future Outlook:**  
We envision a future where event ticketing is decentralized, transparent, and accessible to all. Through continuous innovation and community collaboration, BlockPass is committed to leading the charge toward a more inclusive and equitable event ecosystem.

**Join Us:**  
Are you ready to join the revolution in event ticketing? Get involved with BlockPass today and be part of a movement that's changing the game for fans and organizers worldwide. Together, we're building a brighter future for event ticketing—one fair ticket at a time.

**Presentation Slide -**

[**Presentation Slide**](https://drive.google.com/file/d/1wKH26aZXeoojPb6QOdpKDn_tHd3-50LS/view?usp=sharing)

**Demo Video -**

[**Video Demo**](https://youtu.be/DtFTZXOwE0s)

**Live Demo -**

[**Live Demo**](https://blockpass.netlify.app/)

**Track and Selected Bounty**

* **Track**: **(Social ) Building an event ticketing system based on Polkadot SDK**

**Bounties:**

* **Moonbeam Integration**
  + **Smart Contract Deployment:** We deployed our decentralized event ticketing smart contracts on the Moonbeam network. This allowed us to utilize Moonbeam’s Ethereum compatibility while benefiting from Polkadot's scalability and security.
  + **Cross-Chain Interoperability:** Moonbeam’s compatibility with the Ethereum Virtual Machine (EVM) enabled us to integrate seamlessly with other Ethereum-based tools and libraries, enhancing our smart contract functionality.
* **Crust Integration**
  + **Event Banner Storage:** We used Crust Network to store event banners, ensuring that the images are securely stored in a decentralized manner. This helps in maintaining data availability and integrity.
  + **NFT Metadata Storage:** The metadata associated with event tickets, which are minted as NFTs, is stored on Crust. This ensures that the data remains immutable and accessible even if the original source is offline.

**Tags:**  
#BlockPass #DecentralizedTicketing #Polkadot #substrate #events #BlockchainRevolution 🎫🚀