LibreSchola

Reimagining Academic Publishing and Journalism: Integrating Blockchain, Peer Review, and Token Incentives

Traditional academic publishing faces challenges such as slow peer review, lack of transparency, and misaligned incentives. To address these issues, we propose a decentralized publishing model that integrates blockchain technology, token economics, and community-driven governance. This system reimagines how research papers, news articles, and educational materials are reviewed, published, and rewarded—empowering authors, reviewers, and editors with transparent incentives and accountability. Content is published in both PDF and video formats. By combining staking mechanisms, reputation scoring, and inflationary token distribution, our framework promotes quality, integrity, and participation across the spectrum of knowledge dissemination.

How Is Peer Review Conducted?

Key Roles and Groups:

- **Editorial Board Members**: Responsible for making final decisions on article acceptance or rejection. A proposal passes if it receives at least 51% approval from the editorial board.
- **Reviewer Inviters**: A dedicated group tasked with identifying and inviting qualified editorial board members and reviewers based on the subject matter and context of each submission. Reviewer inviters must stake tokens to qualify for the role.
- **Reviewers**: Evaluate the quality, validity, and significance of submitted articles.
- **Proof Readers**: Individuals who review the article for grammar, clarity, and accuracy, and also generate the article in different formats such as PDF.
- **Offchain Storage Members**: Users who store off-chain data such as videos, PDFs, and JSON files.
- **Support Teams**: Includes marketers, developers, and system administrators who ensure platform functionality, outreach, and technical maintenance.

Technology Used

- Polkadot-SDK – Serves as the backend API, storing data hashes, managing reputation scores, and handling token distribution. It will function as a parachain within the Polkadot/Kusama ecosystem.
- Tauri and Leptos – Used for building cross-platform applications that run seamlessly on both mobile and desktop devices.
- rqbit – Utilized for storing video files as torrents.
- Iroh – Used for storing JSON and PDF files
- Iroh - Used to build a decentralized search engine.

Token Economics:

The network features a yearly inflation rate of 1.2 million (0.1 million per month), distributed as follows:

- **30%**: Developer and system maintenance team
- **10%**: Collator rewards (transaction validation and block production)

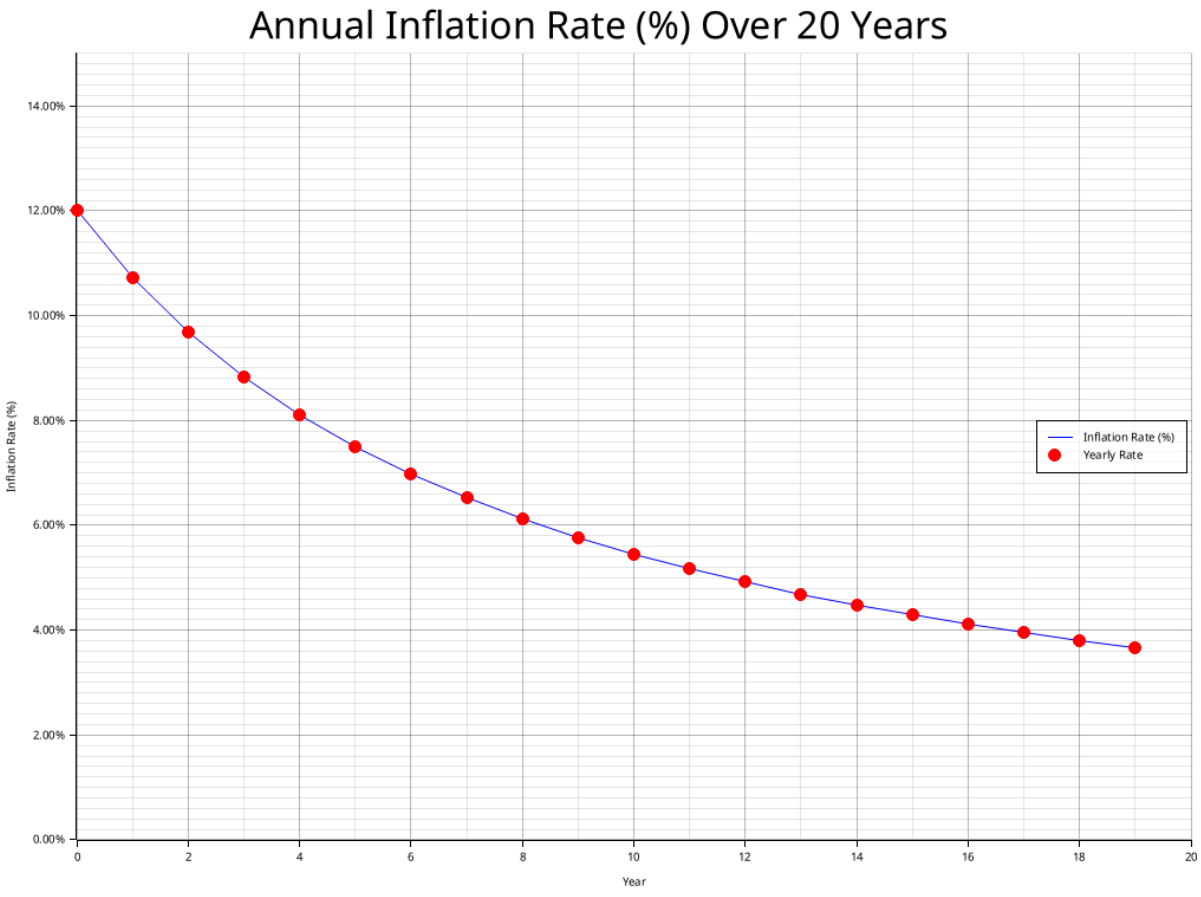
- **60%**:
  - Reviewers (for conducting peer reviews)
  - Reviewer inviters (for identifying and inviting qualified reviewers and editorial boardmembers)
  - Authors (upon article acceptance)
  - Editorial board members (for final decision-making)
  - Proof Readers (for generating the article in different formats such as PDF)
  - Offchain storage members (for storing videos, pdfs and json data)

Reviewers, reviewer inviters, authors, editorial board members and offchain storage members earn reputation scores based on their contributions. These reputation scores can be redeemed for cryptocurrency tokens every month.

Fraudulent behavior will be penalized through a slashing mechanism, where reputation scores or stake are slashed via conviction voting.

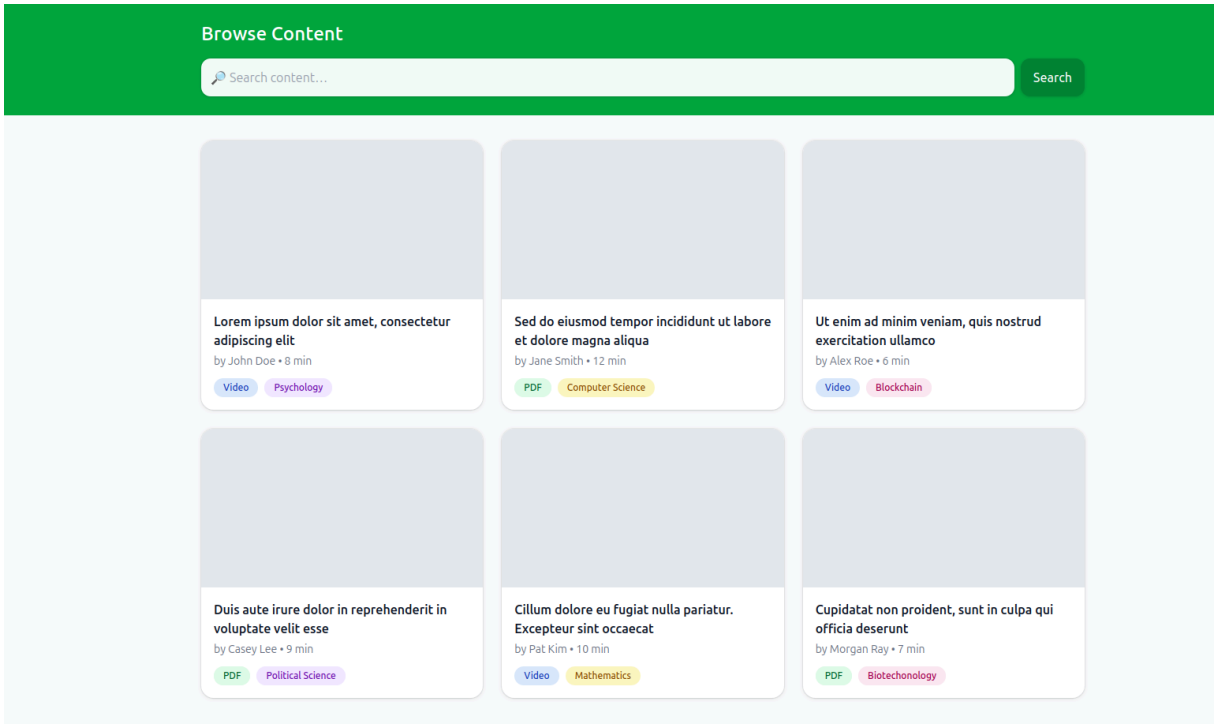
There is an initial supply of 10 million tokens, with 50% distributed at launch to authors, reviewers, reviewer inviters, and editorial board members.

Yearly Inflation Rate

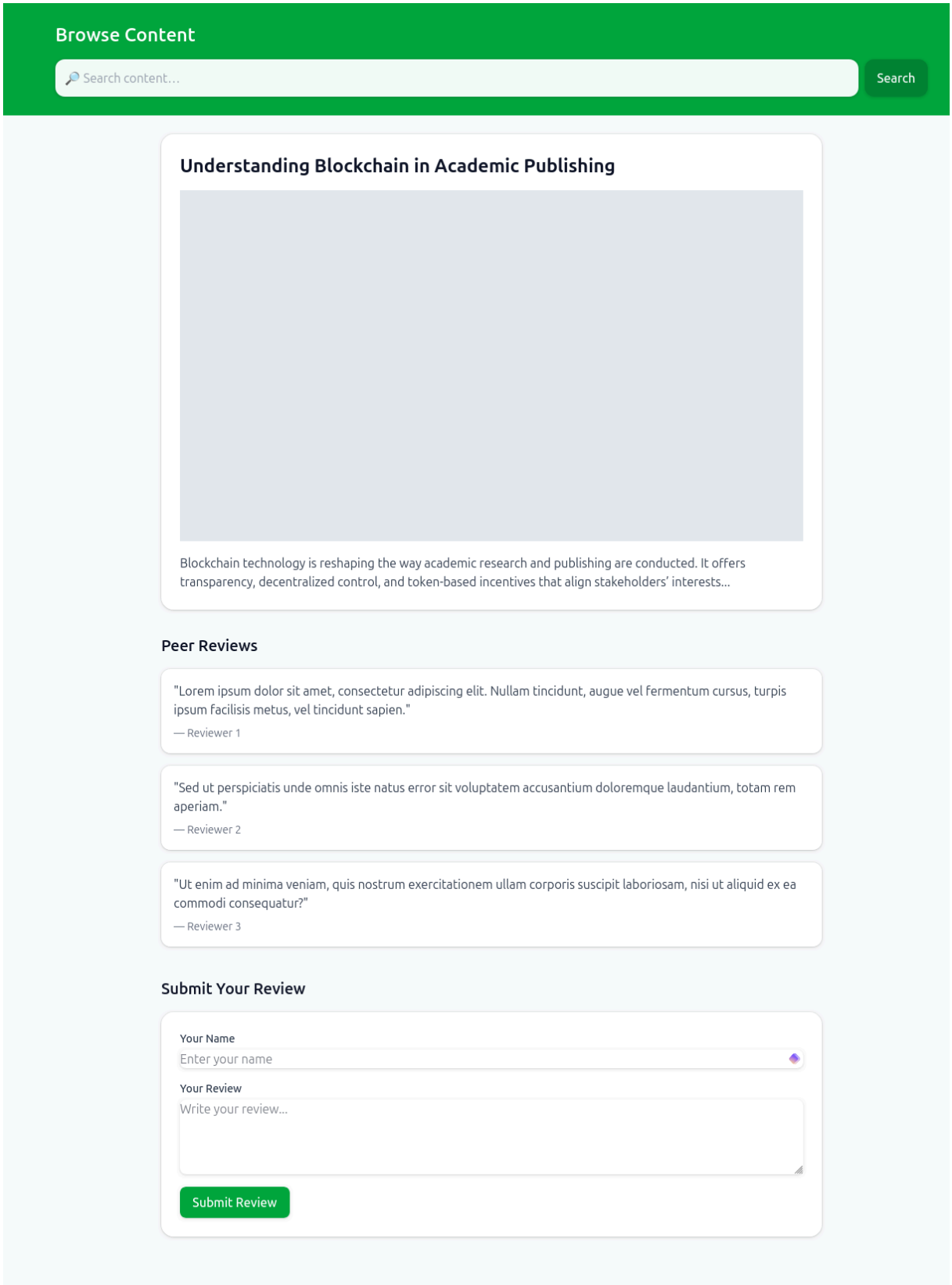


User Interface

Browse Content



Peer Review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Search
Understanding Blockchain in Academic Publishing
Blockchain technology is reshaping the way academic research and publishing are conducted. It offers transparency, decentralized control, and token-based incentives that align stakeholders' interests...
Peer Reviews
"Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam tincidunt, augue vel fermentum cursus, turpis ipsum facilisis metus, vel tincidunt sapien."
— Reviewer 1
"Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam."
— Reviewer 2
"Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur?"
— Reviewer 3
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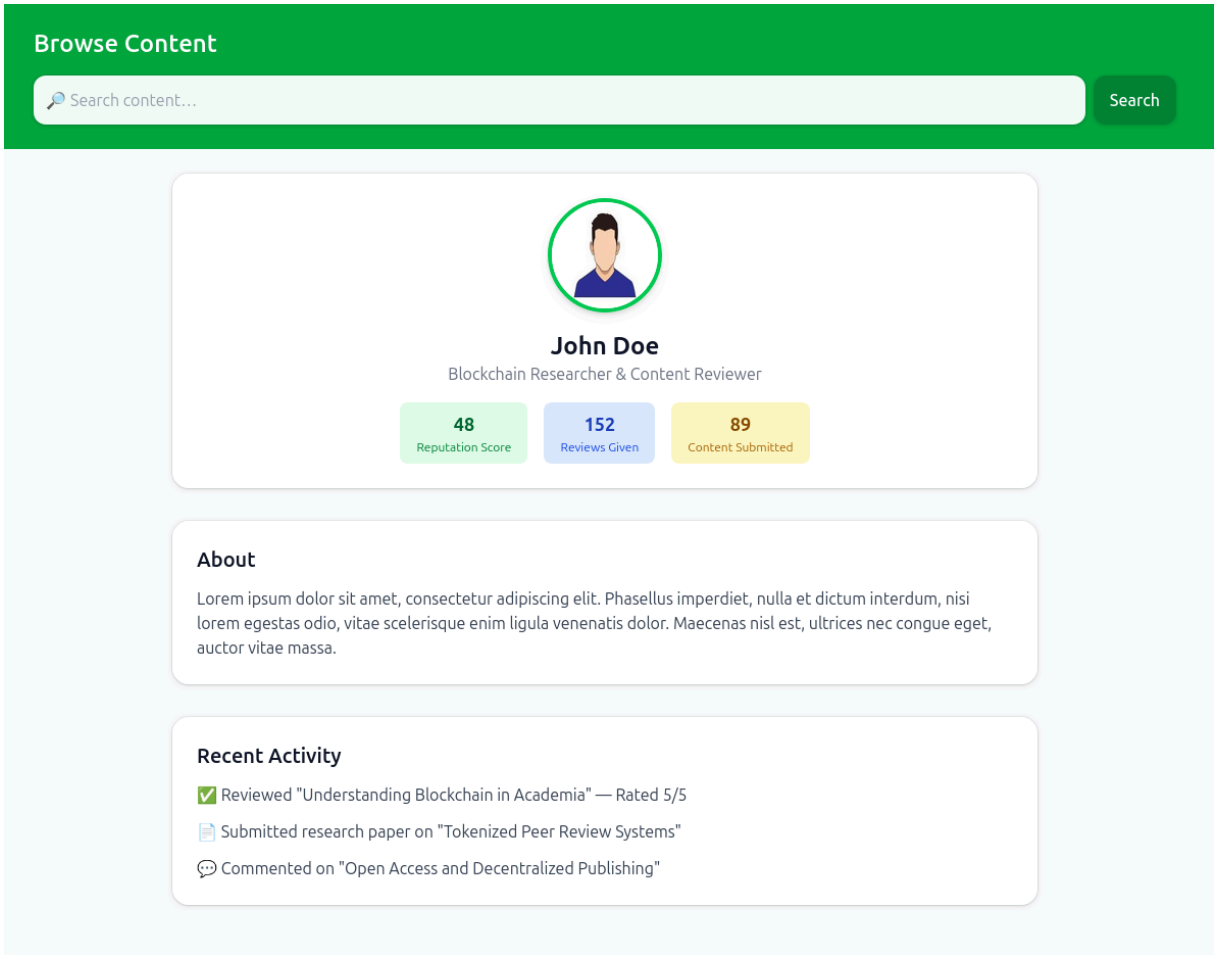
Enter your name
Your Review
Write your review...
Submit Review

Profile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48
Reputation Score
152
Reviews Given
89
Content Submitted
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📄 Submitted research paper on "Tokenized Peer Review Systems"
💬 Commented on "Open Access and Decentralized Publishing"