

Micropayments

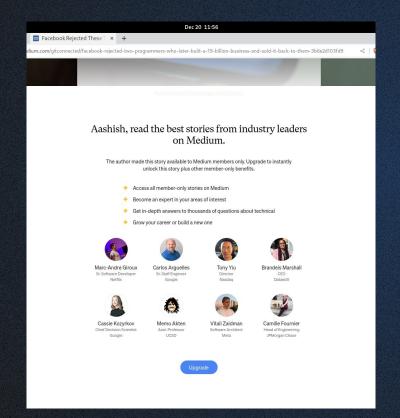
Exploring secure and efficient transaction

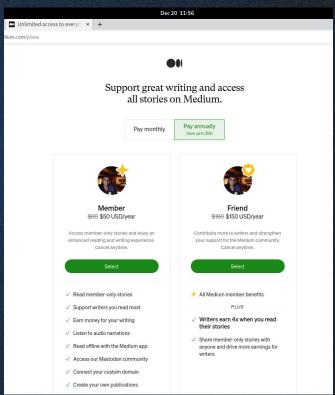
Team: HashChain (Madhusree & Aashish)





Problem Statement





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Current Scenario

- Monthly / Yearly subscription
 - Pre-paid (User has to trust the merchant)
 - Post-paid (Merchant has to trust the user)

Advertisement

- Not user friendly
- Users are irritated resulting in users losing interest
- Waste of valuable time
- Privacy concerns

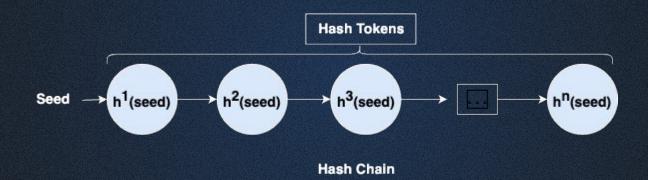
Solution: Micropayments

 A credit based micropayment scheme that utilizes chain of hash tokens to facilitate secure and efficient micropayments. Our scheme distributes amount based on last hash value received.

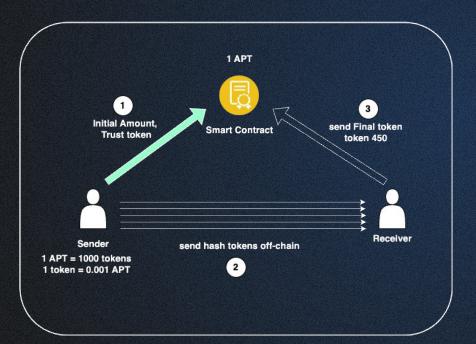
Target Users (web3):

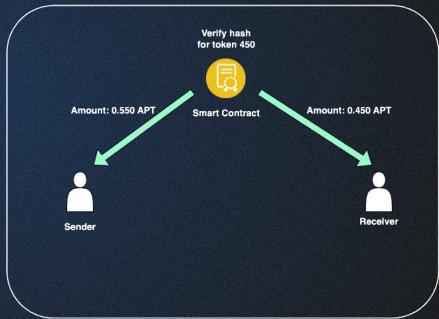
- Online gamers
- Digital Content consumers
 - Audio
 - Video
 - Article
 - News and so on.....

Hash chain?



Micropayment Scheme





Payment

Redemption

Technical Merits

1 Unforgeability

@2 Efficient Tokenization

100 No Replay Attacks

Aptos Usage

- Programmatic
 Payment
 Using Resource
 Account
- @2 Aptos Coin



Roadmap

Jan

Hash Verification Refinement, Integration Completion

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Token Transfer Implementation, Optimization

May

Browser Extension Development, Seamless Integration

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Documentation, API Development

Market

- Gaming Platforms for renting and in-game purchases
- Video creating platforms (e.g. chingari.io) for more efficient create, engage and earn incentivised program







Demo Video

https://drive.google.com/drive/folders/18ieceR6LGy7IjMHSYE5rCxZVbr93bU9S?usp=sharing



Pay Less! Transact More!