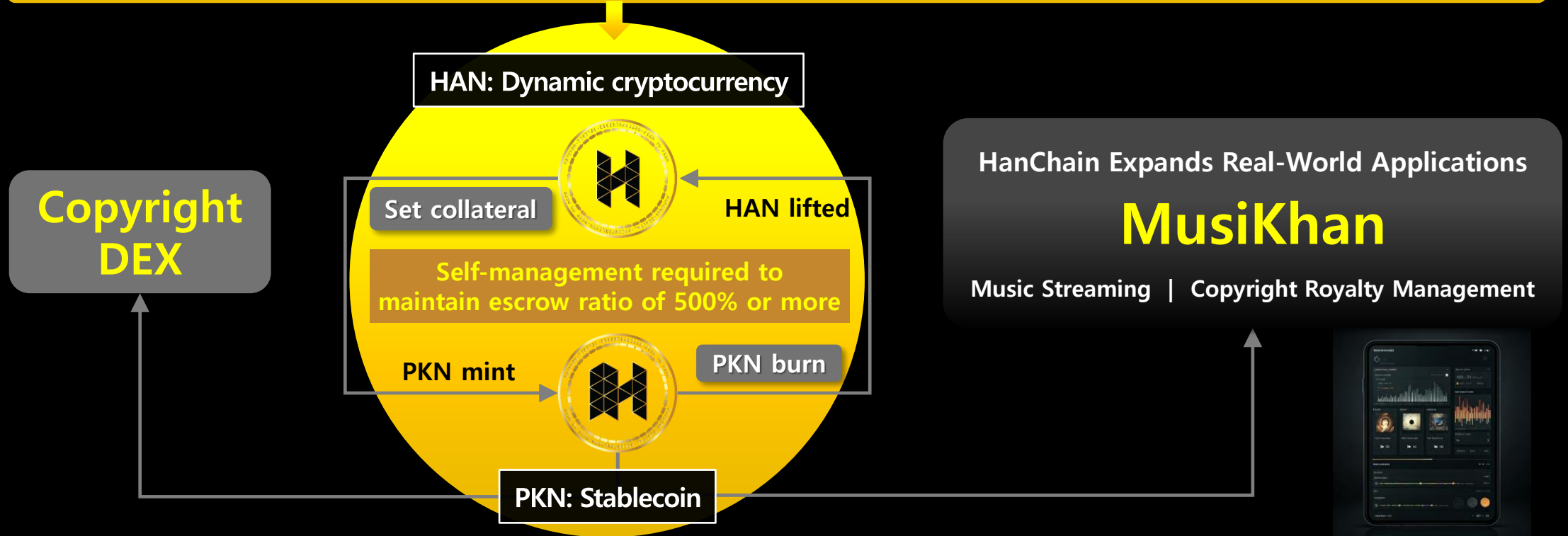# HanChain

Transforming Music Copyright
with Real-World Blockchain Utility
for Maximized Royalties

HanChain-HAN's Solutions to Tackle Issues

"Cryptocurrencies' volatility makes them impractical for everyday use, while stablecoins lack appeal, face regulatory constraints, and are largely confined to finance."

HAN Staking for PKN Issuance tackles these issues, with most PKN supporting popular **music** and culture.

HAN: Dynamic cryptocurrency

Copyright DEX

Set collateral

HAN lifted

Self-management required to maintain escrow ratio of 500% or more

PKN mint

PKN burn

PKN: Stablecoin

HanChain Expands Real-World Applications

MusiKhan

Music Streaming | Copyright Royalty Management

The Challenges of the Traditional Music Industry
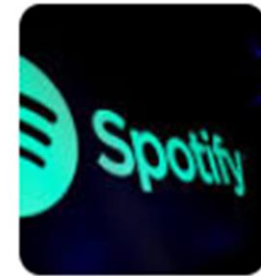
- Opaque copyright systems
- Inefficient royalty distribution

- Lack of transparency
- Limited opportunities for creators

Reuters

Spotify sued over millions in allegedly unpaid music royalties

Spotify has been hit with a lawsuit in New York federal court that accuses the streaming giant of underpaying songwriting royalties for tens...
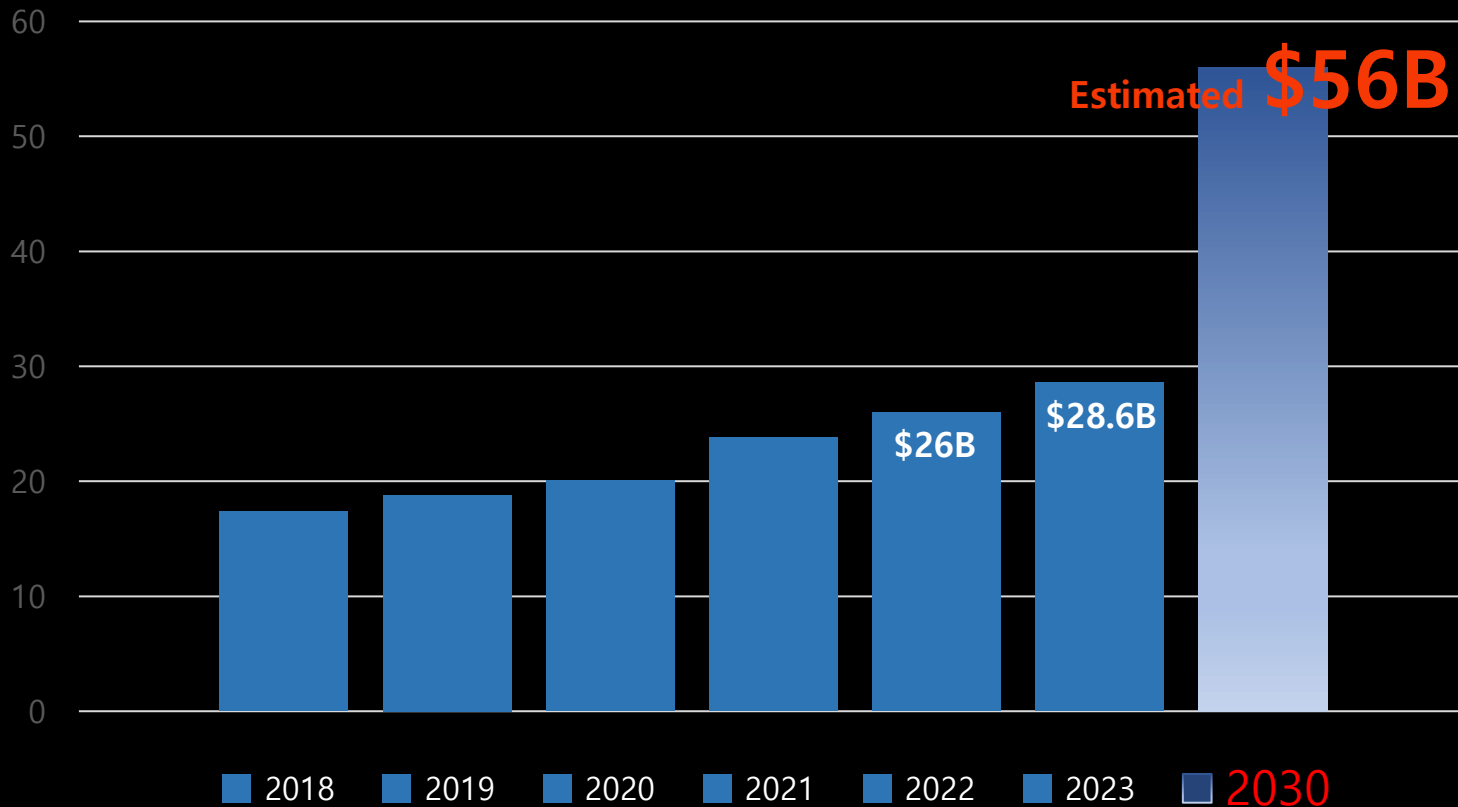
2024. 5. 17.

HanChain :

Blockchain-Powered Solution for Max Royalties

- ☐ Enhanced transparency and traceability
- ☐ Streamlined royalty distribution
- ☐ Fair compensation for creators
- ☐ Increased fan engagement

Global music copyright market

Music industry revenues 2018-2024 (US$ billions)

Estimated **$56B**

$28.6B

$26B

2018 ■ 2019 ■ 2020 ■ 2021 ■ 2022 ■ 2023 ■ **2030**

The music industry has seen a remarkable **annual growth rate of over 10%**, largely attributed to the rise of streaming services.

Blockchain is poised to revolutionize the music industry by providing clear ownership of musical works, automating royalty distribution through smart contracts, and facilitating direct artist-fan interactions

Comparison of Music Streaming Platforms

MusiKhan	vs	Audius	Musicow
O	Streaming	O	X
Smart Contract	Blockchain	Smart Contract	X
Global	Market	Global	Limited
Decentralized	Governance	Decentralized	Centralized
Copyright	Rights	Uncertain	Investment Contract

499+ New Songs Produced

499+ Contract Distribution - Copyright Tokenization

256+ New MusicVideos Produced

256+ NFT Munie (MNI)

MusiKhan is building a sustainable music ecosystem where artists and fans can thrive together, underpinned by robust copyright protection and a global network.

Our decentralized governance model empowers users to participate actively, while our transparent systems and fair reward structures attract a growing community of artists and fans

A Transparent and Efficient Music Marketplace

Creators upload their music to the platform

Smart contracts automatically verify copyright and licensing

Royalties are distributed transparently and efficiently

Fans can purchase or stream music directly from creators

HanChain's Differentiators - Core Technologies

METHOD FOR MANAGING MEDIA COPYRIGHT BASED ON BLOCKCHAIN

PATENT NO. 1024677060000

METHOD FOR TRADING MEDIA COPYRIGHT BASED ON BLOCKCHAIN

PATENT APPLICATION NO. 10-2022-0147323

CROSS-BLOCKCHAIN AUTHENTICATION DECENTRALIZED IDENTIFIER (DID) TECHNOLOGY

PATENT APPLICATION NO. 10-2024-0083736

ONE-CLICK LIQUIDITY PROVISION & DECENTRALIZED STAKING PROTOCOL

https://staking.khans.io/launchpad

HanChain Project

Unparalleled Security

HanChain has been consistently rated in the **top 1%** of security among the 13,000+ Web3 projects evaluated by CertiK, based on rigorous assessments of smart contract security, team expertise, and market stability.
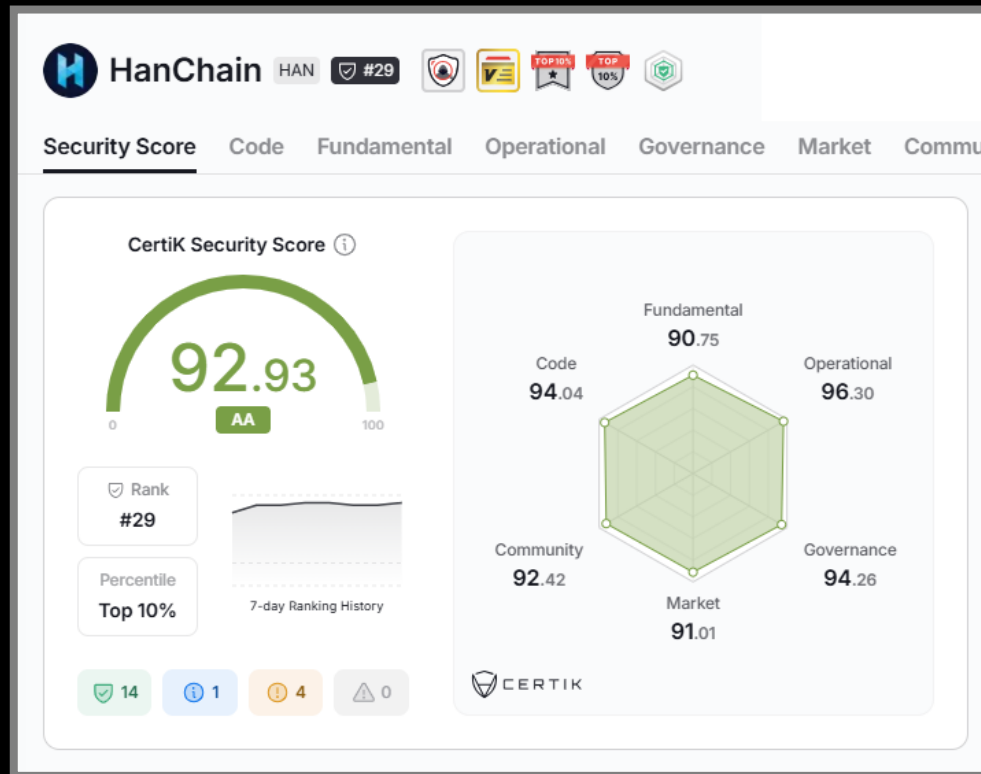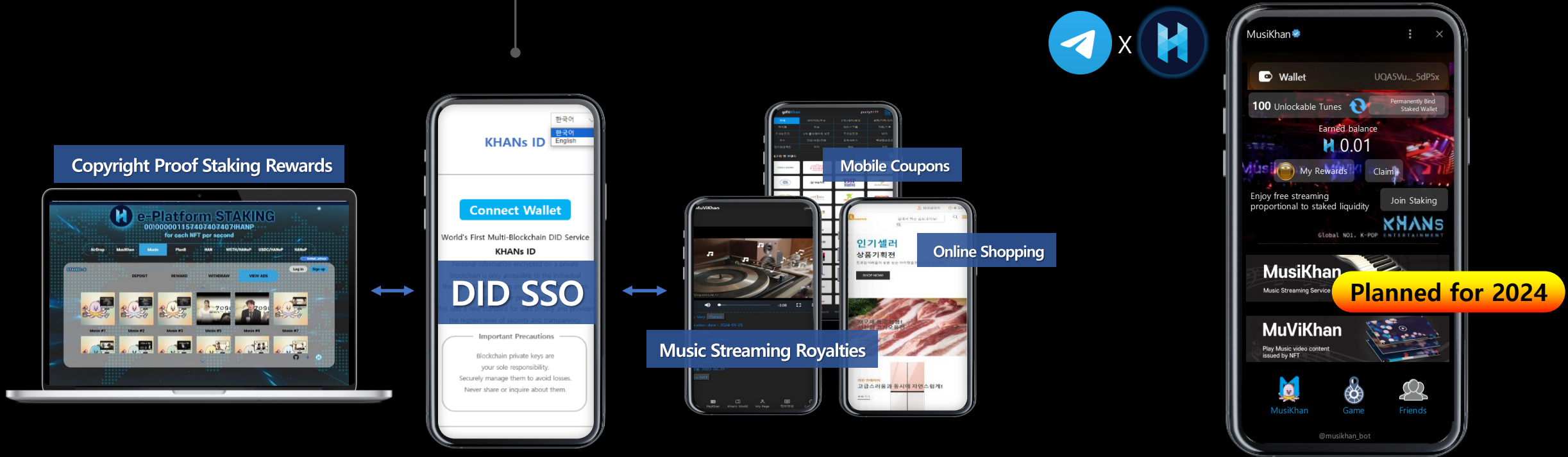

By achieving **ISO 27001** certification for three consecutive years, we've not only protected investor assets but also strengthened our market position and paved the way for long-term growth.

HanChain's Roadmap

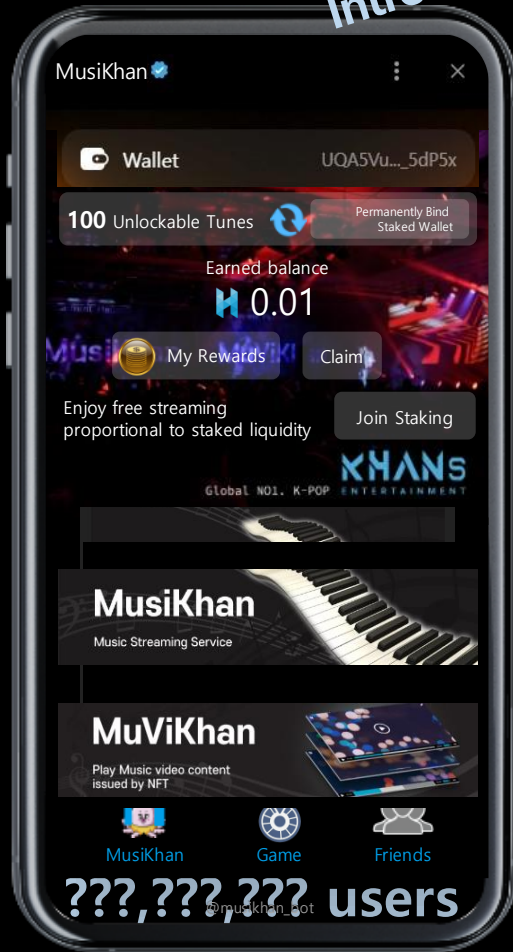We respect the rights of copyright holders and support all aspects of life's happiness.

So far, we've built DID SSO-based solutions for Staking, Royalties, Coupons, and Shopping.   **And we hope to be expanded via TG's Tune2E.**

Copyright Proof Staking Rewards

DID SSO

Mobile Coupons

Online Shopping

Music Streaming Royalties

Planned for 2024

Introducing

Tune to Earn Backed by RWA

While Tap to Earn focused on one-time rewards for simple taps,

Tune to Earn tokenizes real assets such as music copyrights, giving intrinsic value to the act of listening to music itself, and thereby establishing a sustainable new economic system.

???,???,??? users → $$$,$$$,$$$ TVL
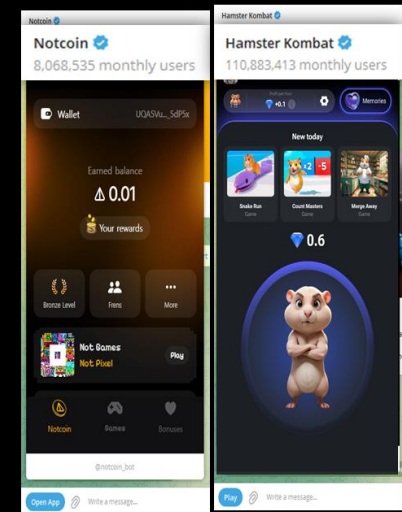
Telegram Mini-App
MusiKhan
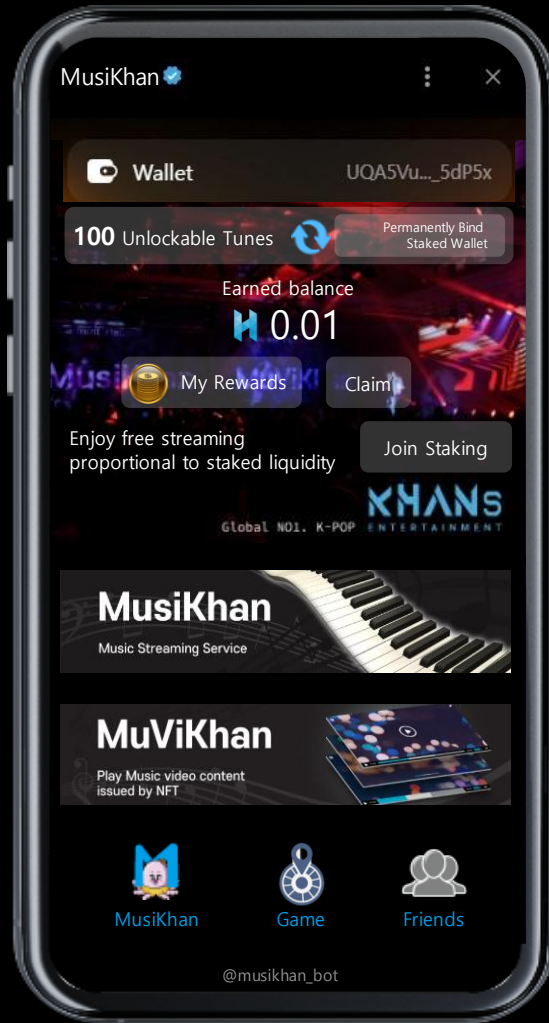
Enjoy a three-in-one benefit

1 Provide liquidity

2 Enjoy K-POP for free

3 Earn additional rewards through games.

MusiKhan Game-Changing Marketing

5% market penetration

Over 2 billion music fans worldwide

Aiming for 100 million subscribers
Free K-POP streaming
Through a Telegram Mini-App
in proportion to the staked liquidity.

Providing prizes through game based on the amount of streaming received

Purchasing HAN, providing liquidity, and earning staking rewards by using only ETH with a single signature.

HAN
WBTC

Milestones for Telegram Mini App:
Tune to Earn - MusiKhan

Implementing tunes unlocking and streaming functions

Development of spin game features and reward management

User interface integration and optimization

Key member

CEO **Taehee, Cho** — Music Management Expert

Bachelor of Software Engineering and Practical Music at SDU
- Music Management Expert
- Intensive Video Music
Certified Block Chain Professional (CBP) at Korean Standards Association
https://www.linkedin.com/in/venicho/

CISO **Younghun Kim** — Information Security Expert

AWS Academy Cloud Foundations Certified Lecturer | CISA, CISSP certification
Full-time Professor of Korea Vocational College of Information and Technology
ITBCR PG Security Officer
https://www.linkedin.com/in/younghun-kim-683955263/

KYC Status — by CERTIK

KYC Gold Verified — Since 6/15/2023
Core Team Members — 6 Verified
Inception Date — February 2022
Geo Risk — Tier 1

KYC Timeline
- Initiated On 5/20/2023
- Founder Interview On 6/14/2023
- OSINT Review On 6/15/2023
- Data Review On 6/15/2023
- Badge Grant on 6/15/2023

APP AWARD 20 WINNER
APP AWARD 21 WINNER
Grand prize Blockchain Innovation Sector
Grand prize Financial Points Sector
iEco AWARD 22 WINNER

ADVISOR **Hyejin(Summer) Park**

Head Professor of Digital Assets and Blockchain MS Program at aSSIST
CEO of Bayard,
Founder and Vice Chairman, Web3.0 Forum
Venture Partner, Simsan Ventures London
M.A. in Political Science, Seoul National University
Doctor of Business Administration, Franklin University Switzerland

HanChain's Goals

HanChain is currently **the 12th largest project** on the
Optimism in terms of Total Value Locked (TVL) as a major partner.

We are poised to become **number one** on **TON** soon.

#	Pool	↓ TVL
12	HAN/WBTC 1%	$1.
13	ETH/USDC.e 0.05%	$926.8K
14	USDC/OP 0.3%	$917.2K
15	USDC/USDT 0.01%	$839.4
16	USDC/WBTC 0.3%	$614.8K
17	USDC/USDC.e 0.01%	$517.0K
18	THALES/ETH 0.3%	$511.4K
19	WBTC/HANeP 1%	$494.5K

X

Our next step is
to **maximize the interests of copyright holders** by creating a music ecosystem
where HAN is collateralized to issue PayKhan-PKN stablecoins,
and a DEX supports trading of PKN-based copyright tokens.

HAN Staking
for **PKN Issuance**

PKN Copyright

Copyright DEX

KHAN IS HERE NOW!

e-mail. dev@khans.io | Telegram. @KHANisHereNow @VeniCho

https://khans.io | https://t.me/hanchain_official | https://x.com/HanIdentity

Use Case

Use Case Diagram for Telegram Mini App: Tune to Earn - MusiKhan World
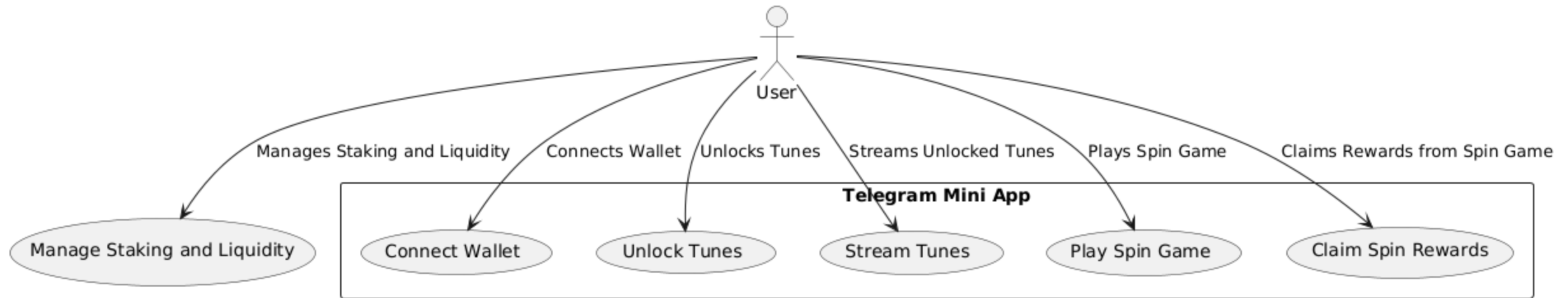
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pUPyddYkLHoQW4MgCTCoHNJpqlKOwFWnhZxmwsIlwKoIPs2DUgSAMCYJi7RAT-mwmPhVW00

Sequence Diagram

Sequence Diagram for Telegram Mini App: Tune to Earn - MusiKhan World

Liquidity Provisioning

One-click signature to add liquidity (native coin)

alt [Native coin wrapping required]
Wrap native coin
Swap 50% native coin for Token0
Return Token0
Calculate HAN to match Token0 value for liquidity
Provide Token0 and pre-prepared HAN for liquidity
LP token issuance
Swap remaining 50% native coin for HAN
HAN that experienced slippage is only covered by reserves.
Return swapped HAN
Start LP staking (locked)

Reward Claims

loop [Every second]
Reward claims

Streaming Tunes Process

Connect from tonAddress
Connect from stakedAddress
Map tonAddress to stakedAddress
Request unlockable tunes
Request staked liquidity info
Return staked liquidity info
Calculate unlockable tunes
Return number of unlockable tunes
Unlock tunes
Set tuneUnlocked = true
Request to stream unlocked tunes
Stream unlocked tunes

Spin Game Interaction
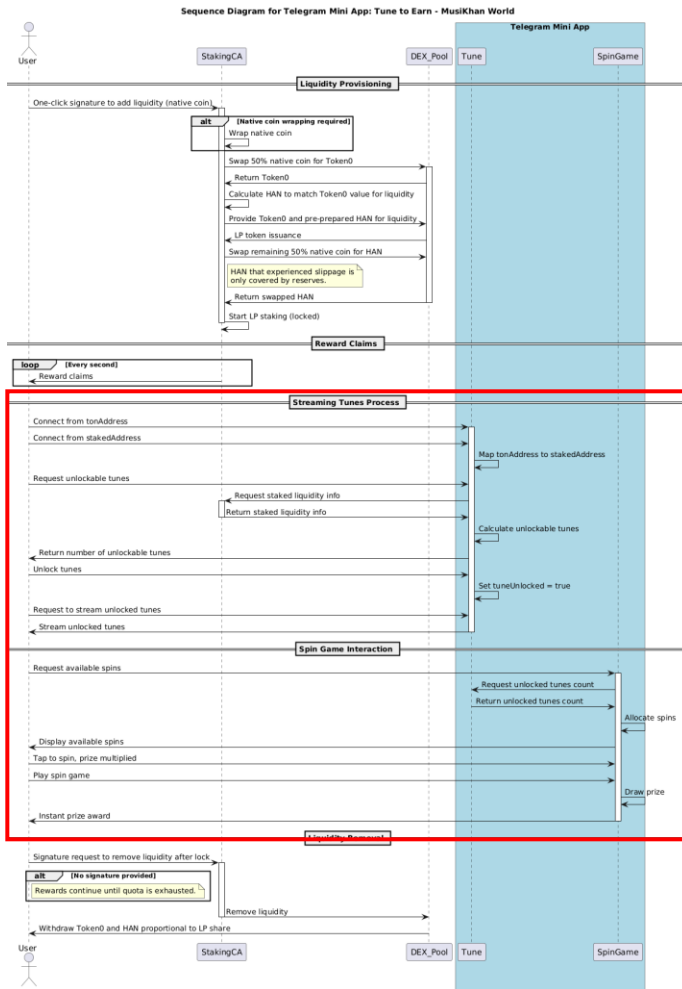
Request available spins
Request unlocked tunes count
Return unlocked tunes count
Allocate spins
Display available spins
Tap to spin, prize multiplied
Play spin game
Draw prize
Instant prize award

Liquidity Removal

Signature request to remove liquidity after lock
alt [No signature provided]
Rewards continue until quota is exhausted.
Remove liquidity
Withdraw Token0 and HAN proportional to LP share

//www.plantuml.com/plantuml/png/XLLDRnit4BtlhnYaA900TP1BBmPKHB2DDcYS6fO3zr2W62r74c7ka2Q7ijLVtnqijAJNA-SexNipRnxdutClZ98xruWLHx2YnqpS4bnQt4RiOECZt94Z_G7NbYqiGpY7kym4uk4A8yCPNETa_zmXmxsFpZGDjjBplYUAJS0ejhK1MM0b-61vUx5yyU_brT__tdZlccRjd-7Tgsplu2TdjpjPkqmD041DLY6I_bm5oxzZHmsnWJveqomMyDK-Pcki7E0c-hrDrdEl1HQBHdN2sMz57fp3NqndhRFj0olxPPGSjLv0Oy2DWTupYjqJjDxo1otQxb6eAXETmBU2WQU88MZMl7sCl4Qb5_nKn7qFXog7rjFKwD6x7hnwwi6_Vlgv9WpFvu8FnLvezyZUPBsbYH7Fl9Eghj0rsQd4VzOVbDpEfHs1mCDzkWoQVxYrodfmuCOEbAH3OH8Po5lm4X6uqyYdPB-zGP4Wu1DAIEtzBPTaJgqsWPpncdQXhqGH6q_y9iwrL3q3WNeEL2qEZK6ahCXu9R0fd_OiplqqVQaDQmF42bHt5Fw-2FdKwyj37KtXbuztEadMUaqgmbf-1FUEzy-aFbG2vHD60nSERPTq6fpt0QvwqGT8r7gUwL4T63W_KbkdLErD3TWZ8s6doNKsapvklodLWwOVj84yCxK2c-Wx4CzBOsAFB9sgk3T9MYQP8qyH5V8QGnKLn4_Way2tklgIG6RjhpCUOVhAwmdi3JehN8aefpjwQedJmbJDtuplgz3bQ-hKX0FmmOCh00YPbE63eOhpq1-KYOrRYQ0zK-A7veiM0PTC735nQA2l1SDTXu02eLk4Vhj5v8_SVIPELOZAJvdY8goT3qMvIYhe4PVBcqA3W-lAfYhzWwrvq41lq28zZ-2BZknmLaoSuGRZQnms4uyg56N4P-6S7C2lt0lP1a0WBeKwcSxCYPN-9OwlqTtwW2lnhCRInz5vL0rAhWHYg1kpmtTS7zzTSB3S6c6dVPojxzOQlfeB9QpZfPO1u_P2u9DGCyxp4d8V1mstgdxSZkHEZ_G8w6uUMzbPzJlSWtr4AZquADsEZhrGhY
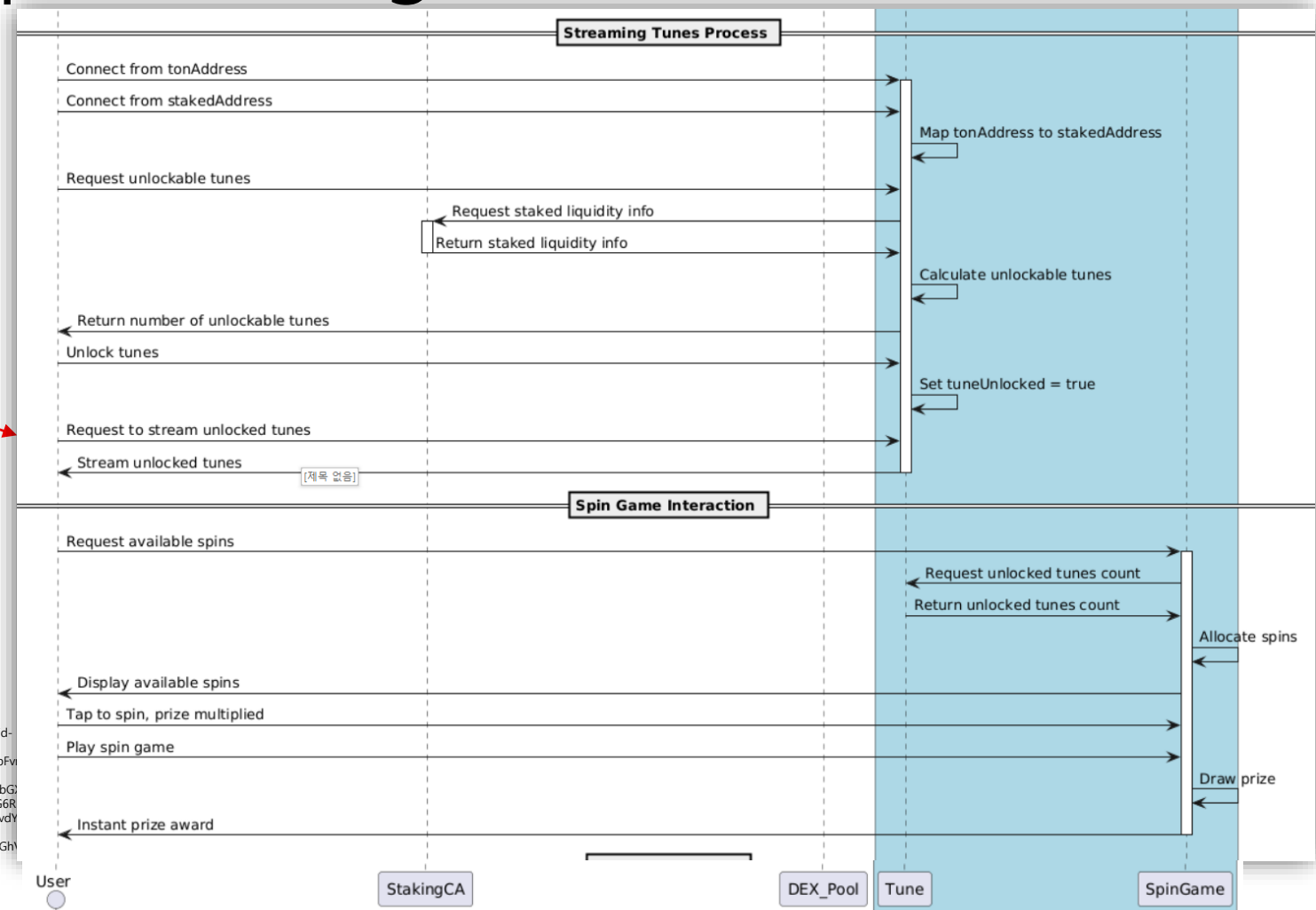
Data Model

Data Model for Telegram Mini App: Tune to Earn - MusiKhan World
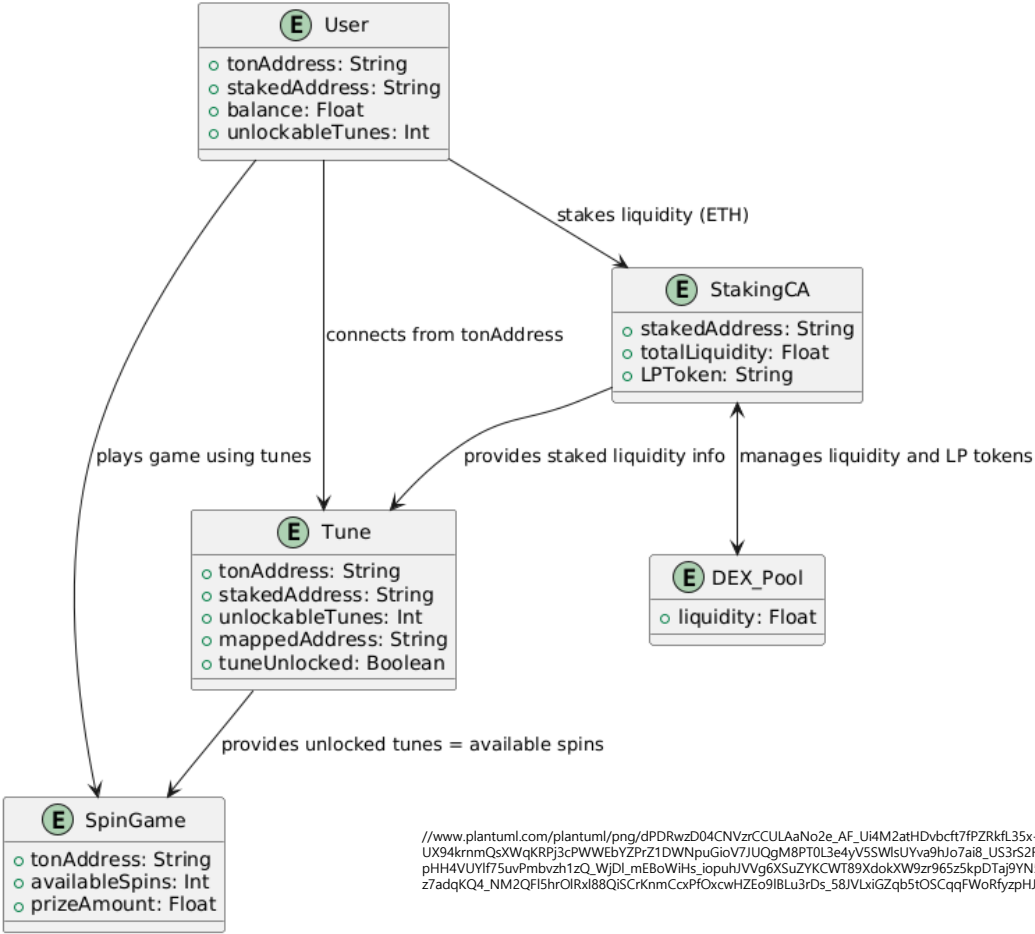
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Functional Architecture

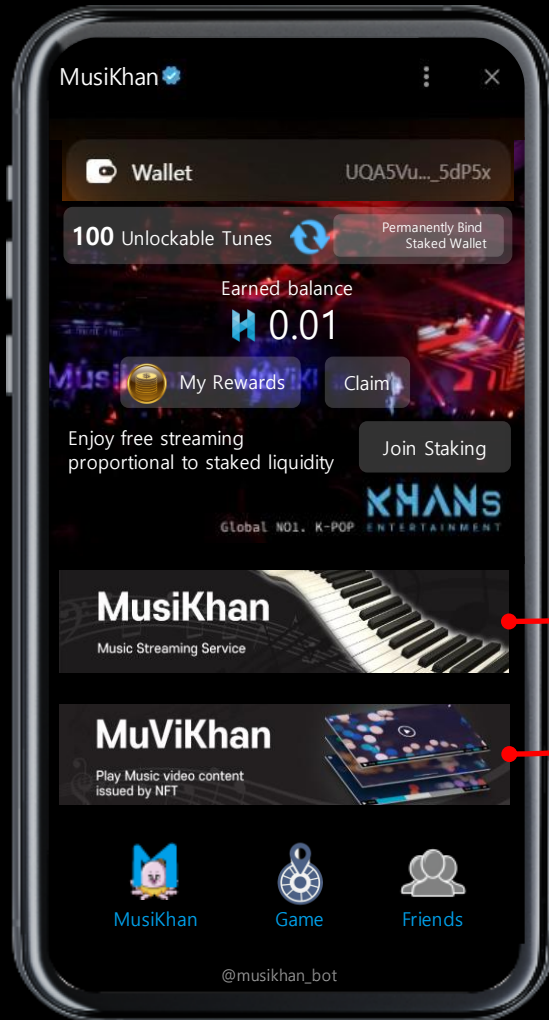Functional architecture for Telegram Mini App: Tune to Earn - MusiKhan World
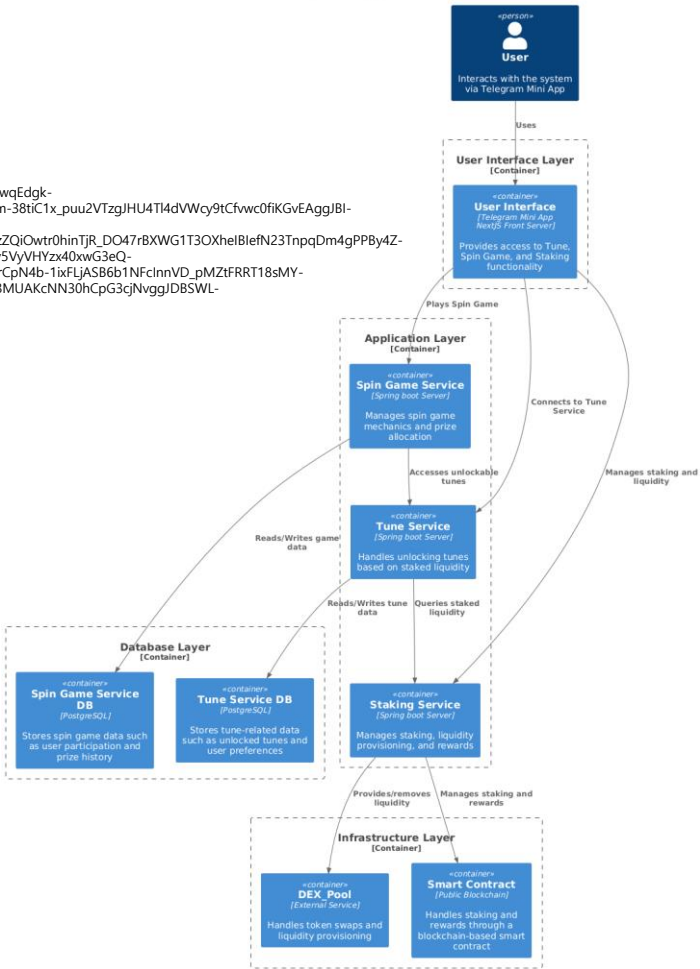
//www.plantuml.com/plantuml/png/bLHBJpit4B_lfvXo0Wd4XLDLLRnRMgW2eQA7Igk9TvAryDfRFm9frU_UyPeu6vmK_NFPNSSplySypfr7wqEdgk-a5Yeq13zSdPrUdTLNHdkKckoFLUMbLmltGGilZKO5Q4KhFGaVBC7SM7WcHGkB7Jn8BU6Yxx-7vw09l84Rj1fEu24u-MkB6bwCLKrLJSWwem-38tiC1x_puu2VTzgJHU4Tl4dVWcy9tCfvwc0fiKGvEAggJBI-D44tQ5T3qbh6L7CKz94UxjO7S8yhXZk2VohWNqvm66HnDv8gOE5F_Hkz-r-cS6iv6APabud_n9gbRCW12a7EHVtHXsEOzbB3JzZnA-e6fXvVfLx0F7ig_OhL_BjJ3_QzaWBZnLf5xenqiJdRgySpTEsOd1nSY4m6hZBfclOsSfWPCvRmC_DJv21ePSH0CgPnC4D73J2QO-xyfkHVGJQ9zZQiOwtr0hinTjR_DO47rBXWG1T3OXhelBIefN23TnpqDm4gPPBy4Z-PEqPF9z-0dGAEDogXZwLrZ1VF1oAMtj0sRc_Pf9vRTDw6OKvovUx6n_kRyVhcZtfYZEA8zMjaUFFkoMfK8osvPDwyaWRtXdroQZVvqgyEhQy5VyVHYzx40xwG3eQ-3ZCb1Lp6bX0jXsrWirbZJy2treH52mYp77EIMcY0WpNSNlUQMNRi6Zrox7wl-Ex_z3fSNmuQZFCBlzF7-w7-tbXo4CDEB2dqpAnX7711CErr_rCpN4b-1ixFLjASB6b1NFclnnVD_pMZtFRRT18sMY-5xDFORuQXbOw3FnR84wcFjRhUPqmqdVBt9v-OkoRXywPQCnn5x58quTAulDJ6jylX-pHJsvt9aKFeDgqooMCWAycLooSX5nmBeHV3Givx3MUAKcNN30hCpG3cjNvggJDBSWL-4LpCLEb27fRT7fGz_KJOkDCNAtrgtDGX-nqekx5Cm__bDEUacz2f_m00

Design frames

MusiKhan ✔
⋮ ✕

Wallet UQA5Vu..._5dP5x

100 Unlockable Tunes 🔄 Permanently Bind
Staked Wallet

Earned balance
Ⓗ 0.01

🪙 My Rewards Claim

Enjoy free streaming
proportional to staked liquidity Join Staking

KHANS
ENTERTAINMENT

Global NO1. K-POP ENTERTAINMENT

MusiKhan
Music Streaming Service

MuViKhan
Play Music video content
issued by NFT

MusiKhan Game Friends

@musikhan_bot

MusiKhan
MuViKhan

MusiKhan ✔
⋮ ✕

Wallet UQA5Vu..._5dP5x

Pick Genre ▾ Find

Unlock for 7-Day Tune

Select All Max Random Unlock Selected

☐ 내 마음 들어줘
Listen To My Heart Unlock

☐ Gone Unlock

☐ 꽃잎
PETAL Unlock

☐ Standby Unlock

☐ I'm Ready Unlock

☐ 오늘 하루
TODAY Unlock

MusiKhan Game Friends

Design frames

MusiKhan ✓

Wallet   UQA5Vu..._5dP5x

100 Unlockable Tunes   Permanently Bind
                              Staked Wallet

Earned balance
Ħ 0.01

My Rewards   Claim

Enjoy free streaming   Join Staking
proportional to staked liquidity

KHANS
ENTERTAINMENT

Global NO1. K-POP ENTERTAINMENT

MusiKhan
Music Streaming Service

MuViKhan
Play Music video content
issued by NFT

MusiKhan   Game   Friends

@musikhan_bot

Game

MusiKhan ✓

SPIN GAME

63 free available spins

Earned balance
Ħ 0.01

Unlock more tunes and
spin to win awesome prizes!

30 100
70   80
10   50
90   60
50 20

x37

x Tap   Go   ÷ Tap

Design frames

My Rewards

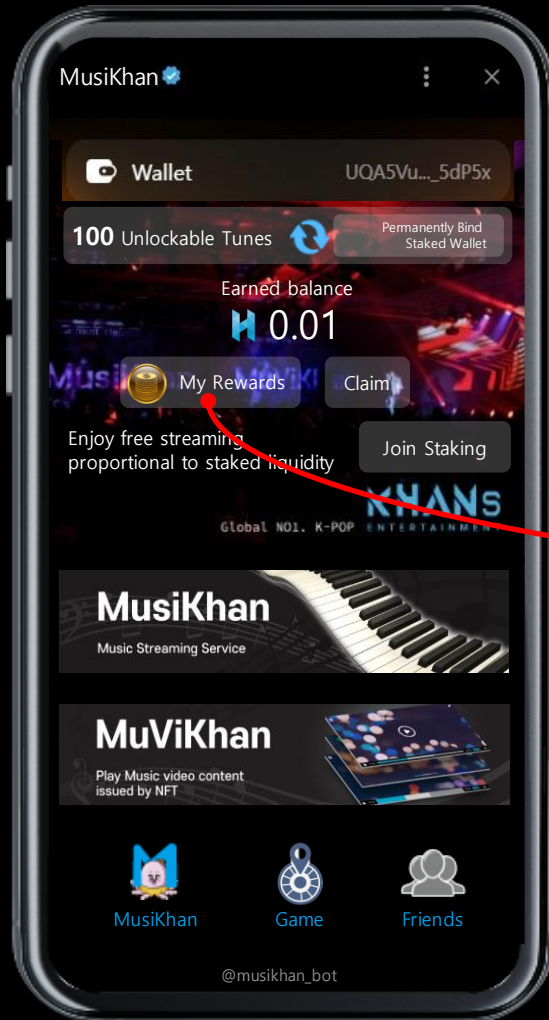## My Rewards

From	Time (UTC)	Amount
Spin	2024-10-10 13:11	100
More	2024-10-09 09:45	0.01
Friends	2024-10-07 09:45	1.01
Claim	2024-10-05 09:45	-3.02

Earn more

Join @hanchain_official on TG	+0.01
Join @hanep_official on TG	+0.01
Follow @HanIdentity on X	+0.01
Follow @HANeP_official on X	+0.01