Proposal: DotShield Bot

Proponent: EfP5cwVJADKD3TKuxxarN6LX3EtSrXTSzM9W7w5Xbhae9d9

Date: 8/04/2025
Requested KSM: 4,439.14KSM

Short description:
This proposal seeks funding to support the operational costs and expansion of DotShield. Dotshield is a moderation and anti-spam bot designed to enhance Telegram and Discord group management, mitigate spam, and provide an easy-to-use, seamless verification experience within the Polkadot and Kusama ecosystem.

1. Context of the Proposal

DotShield is an advanced moderation bot designed to help social groups manage spam and bots while fostering better discussions. It provides customizable verification criteria for group chats. It is highly user-friendly and designed with group admins and users in mind. This proposal requests funding for the initial development, testing, and deployment of DotShield for the benefit and safety of the ecosystem and for maintaining and expanding its capabilities. Significant progress has been made in deploying the bot, including initial testing phases, feedback collection from early adopters, and refining the verification process to make it more user-friendly. These efforts have laid a strong foundation for further development and scaling.

This proposal is based on prior discussions within the Polkadot community regarding better moderation tools that create and ensure a safe and constructive environment. I have experience in social messaging applications and community management and am a seasoned community member. I belong to several Telegram chats where I experienced the issues DotShield seeks to resolve. Recognizing a gap in the market, I decided to develop DotShield myself over the past few months, as there was no real Web3-based solution for customizable verification in Telegram.
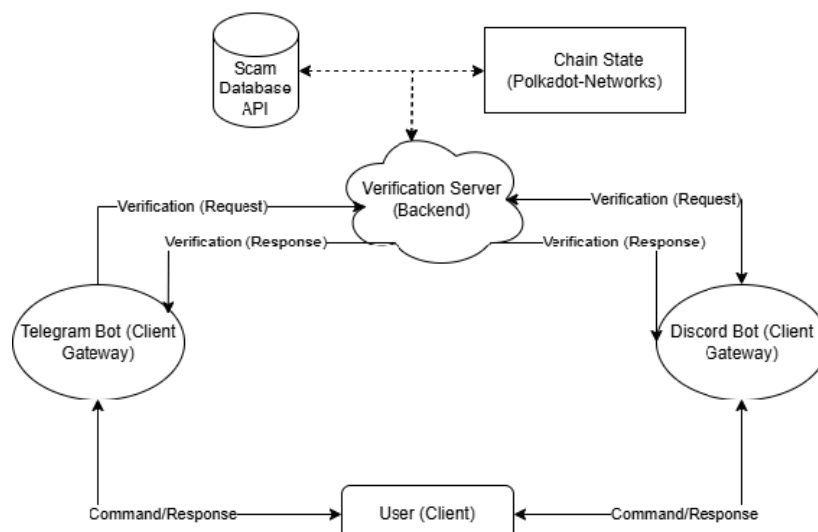
2. Problem Statement

Telegram groups within the Kusama and Polkadot ecosystems (and the entire messaging platform) suffer from persistent spam, bot invasions, and many users who join solely to spread FUD and discredit projects rather than contribute constructively. Current moderation tools like Shieldy, Rose, SafeGuard, and others lack customizable dynamic Web3 verification. Group administrators require a robust and adaptable alternative that aligns with the ecosystem's needs.

3. Proposal Objective/Solution

DotShield aims to provide an on-chain integrated solution with:

- **Advanced Spam Protection**: Prevents bots and mitigates malicious actors.
- **Customizable Verification**: This allows group owners to implement dynamic chain state verification, meaning a group chat can set the criteria to anything within that network's chain state, whether a balance threshold or a membership type criteria, including being a council and technical committee member.
- **Flexible Moderation**: This option still offers flexibility, as group owners and admins can still moderate and add members outside this criteria if desired.
- **Polkadot & Kusama Ecosystem Integration**: Supports any network using the Polkadot SDK, enabling dynamic chain state verification for enhanced group verification flexibility.
- **Extremely user-friendly**: Provides a seamless single sign-in process that enables verification directly within Telegram, eliminating the need for users to access their wallets repeatedly.
- **Safe and secure:** DotShield only requires verification once and does not access a user's balance nor make any transactions, ensuring that keys and balances are safe and using the platform is risk-free.

4. Fraudulent Activity Mitigation

DotShield has the potential to collaborate with ecosystem security experts to proactively prevent and mitigate fraudulent activities across all DotShield protected community chats. By combining efforts, we could enhance detection mechanisms for scam attempts, phishing links, and impersonation, contributing to a safer communication environment for all Polkadot and Kusama users. This would enable the integration of real-time scam reporting and verification, providing group administrators with tools to maintain a secure and trustworthy discussion space.

5. Milestones and Deliverables

Telegram Bot Development

#	Milestone	Description	Status	Hours
1	**Design and Concept**	Define the full scope of DotShield, user flow, and bot architecture.	Completed	40
2	**Backend Logic**	Develop the core backend infrastructure for handling verification for a singular network.	Completed	100
3	**UI Creation and Enhancements**	Implement and refine the user-facing interaction elements within Telegram and the DotShield verification website.	Completed	80
4	**Chain-State Verification and Network Expansion**	Extend support for additional verification criteria within the chain state and expand to all Polkadot-based Networks.	Completed	80
5	**Single Sign-In**	Enable a seamless and intuitive verification process without repeated wallet access via the website.	Completed	40

6	**Performance Enhancements**	Optimize bot response times, handling capacity, reliability, and security.	Ongoing	20
7	**Maintenance**	Ongoing maintenance, bug fixes, and feature improvements to ensure long-term reliability.	Ongoing	40
8	**Scam Prevention & Feature Expansion**	Work with external parties to address fraudulent activities, gather feedback and implement essential feature requests as needed.	Planned/ Ongoing	60
			Total:	460

Expansion to Discord

#	Milestone	Description	Status	Hours
1	**Architecture Design**	Define the integration plan for Discord and its verification methods.	Planned	50
2	**Backend Logic**	Develop the core backend infrastructure to handle verification and moderation in Discord.	Planned	120
3	**UI Creation and Enhancements**	Implement and refine the user-facing interaction elements within Discord.	Planned	90
4	**Single Sign-In**	Enable a seamless verification process within Discord, minimizing user interaction.	Planned	60
5	**Performance Enhancements**	Optimize bot response times, handling capacity, and reliability for Discord deployment.	Planned	50
6	**Maintenance**	Ongoing maintenance, bug fixes, and feature improvements to ensure long-term reliability for Discord integration.	Planned	40
7	**Scam Prevention & Feature Expansion**	Work with external parties to address fraudulent activities, gather feedback and	Planned	60

		implement essential feature requests as needed.		
			Total:	470

6. Payment Conditions

- **Rate:** USD$60/hour
- **Requested Amount:** 4,439.14KSM
- **Milestone-Based Disbursement:** Funds are requested to be allocated in two instalments: the first for completed deliverables and the second within 7 days after the successful completion of the Discord bot.
- **Fund Recipient Address:** EfP5cwVJADKD3TKuxxarN6LX3EtSrXTSzM9W7w5Xbhae9d9
- **Contact:** Email: info@dotshield.app Telegram: DotShieldSupport
- **Exchange Rate Consideration:** KSM/USD EMA7 on date: 8/04/25: $12.44USD

7. Comments & Q&A

We are happy to address any questions or concerns in the proposal chats to benefit the entire community.

This proposal aims to ensure DotShield's continued growth and contribution to securing Web3 communities within Polkadot and Kusama. The requested funding will directly support development, maintenance, and expansion efforts, reinforcing the safety and reliability of the ecosystem's most active communication channels.