☐ Hackathon Introduction

With the unveiling of Acki Nacki on December 2nd, 2023, GOSH has outlined its vision for a groundbreaking consensus protocol that, we believe, can solve the existing scalability and security problems within blockchain technology. Now, this vision has become a reality. The Acki Nacki TestNet is live.

As part of the announcement of **Acki Nacki**, a new and groundbreaking blockchain architecture, **GOSH holds the Underworld Computer Hackathon**.
The Hackathon will promote developing tooling, advanced features, security, and other possible improvements for Acki Nacki.

We invite technology rebels, community members, developers, researchers, and scientists to push the boundaries of what is possible with Acki Naki and to earn GOSH TOKENs.

The Hackathon's prize pool is 100,000 GOSH TOKENs.

Hackathon goals and objectives:

- **Wallet Applications:**
  - Develop keyless wallets that enhance security by eliminating the need for private keys;
  - Implement wallet connect functionality to enable seamless interaction between decentralized applications (DAPPs) and wallets;
  - Create hardware wallets with robust security features, including stateless transaction validation for efficient processing.
- **Blockchain Infrastructure Tools:**
  - Build tools for managing blocks, accounts, and signatures within the Acki Nacki blockchain;
  - Develop traffic visualization and indexing tools, aiding developers and users in understanding network activity.
- **Validator Tools and Portability:**
  - Create validator tools that facilitate validator node management, monitoring, and reporting;
  - Ensure compatibility by porting these tools to different platforms (e.g., operating systems, cloud providers);
  - Implement CI/CD (Continuous Integration/Continuous Deployment) pipelines for seamless updates and maintenance.
- **Advanced Cryptography and Security:**
  - Enhance Acki Nacki security tooling by integrating advanced cryptographic techniques (e.g., BLS signatures, Merkle Trees, Commit-Reveal scheme for key pairs);
  - Collaborate with security experts to conduct thorough audits.

- **SDK and Development Tools:**
  - Port existing SDKs (Software Development Kits) to Acki Nacki, enabling developers to build DAPPs;
  - Provide comprehensive documentation and examples for smooth integration;
  - Foster a developer-friendly ecosystem by offering development tools (e.g., code generators, debugging utilities).
- **TVM SDK Bindings:**
  - Develop TVM (TON Virtual Machine) SDK bindings for various programming languages (Python, JavaScript, Rust, etc.);
  - Ensure these bindings adhere to the API reference and are free from known vulnerabilities;
  - Demonstrate their robustness and commitment to future support through version upgrades.
- **Block Explorer Enhancements:**
  - Improve the Block Explorer by adding features such as:
    - ABI specification for decoding messages within transactions;
    - The ability to expand message chains from a single transaction, providing a comprehensive view;
    - Enhanced search capabilities and user-friendly interfaces.
- **Pre-Compile TVM Instructions:**
  - Optimize the execution of TVM instructions by pre-compiling them;
  - Reduce transaction processing time and enhance overall network performance.
- **Zero-Knowledge Proofs (ZKPs) for TIP-3 Tokens:**
  - Research and implement ZKPs for proving ownership and transactions related to TIP-3 tokens;
  - Enhance privacy and scalability while maintaining security.
- **Community-Beneficial Tools:**
  - Encourage participants to propose and develop tools that benefit the Acki Nacki community;
  - Foster collaboration, creativity, and innovation;
  - Consider tools related to governance, education, or user experience.

You can make a change! Choose one, or many combinations, of the Hackathon's objectives.

If you have any questions, you can contact us:
on the Telegram: https://t.me/goshpublic
or e-mail: support@gosh.sh

☐ About Your Organization

GOSH — a Decentralized Cloud to build consensus around your community.
A Git on-chain and DAO platform, GOSH offers a suite of ready-to-use embedded applications to write and deploy code, conduct peer reviews, and much more. GOSH is a Public Chain with Ethereum cross-chain functionality, built on the groundbreaking Acki Nacki consensus protocol, which supports a Freemium business model (gas-free transactions).

☐ Landing Page on Your Organization's Official Website (Optional)

https://gosh.sh/

☐ Key Dates

Date	Event
Dec 2, 2023 - May 31, 2024	Submission period
June 01, 2024 - June 15, 2024	Review and Judging
June 16, 2024	Winner's Projects Demo/Closing Ceremony

☐ Prize Pool Allocation and Prize Distribution

Total Prize Pool: 100,000 (paid in GOSH TOKENs)

Place #1 - 15 000
Place #2 - 12 000
Place #3 - 10 000
Place #4 - 8,000
Place #5 - 6,000
Place #6 - 5,000
Place #7 - 5,000
Place #8 - 4,000
Place #9 - 4,000
Place #10 - 4,000
Place #11 - 4,000
Place #12 - 3,000
Place #13 - 3,000
Place #14 - 3,000
Place #15 - 3,000
Place #16 - 3,000
Place #17 - 2,000
Place #18 - 2,000
Place #19 - 2,000
Place #20 - 2,000

☐ Submission Requirements

- Code must be under one of the Free Software Foundation licenses;
- Code must be original, developed specifically for Hackathon, and free of any Copyright claims of any third party;
- Code must be published on a decentralized git repository on GOSH managed by a DAO on GOSH;
- Use of any Free Software libraries is permitted;
- Code must not contain harmful or offensive content that might violate Human Rights.
- Entrants are allowed to submit more than one submission. However, each submission must be unique and substantially different from the others.

☐ Developer Resources

Website GOSH

Find out how to create your account on GOSH here

You can read how to add your work to the Hackathon **here**

Quick start for TVM CLI here

Quick start for TVM SDK here

☐ Judge Criteria

- Technical complexity and innovation of the project: An assessment of how complex and innovative a solution has been proposed to improve the Acki Nacki protocol;
- Practical value: An assessment of how the proposed improvement can be useful and applicable to the Acki Nacki community;
- Quality of implementation: An assessment of how well and effectively the proposed improvement has been implemented, including code, documentation and testing;
- Security level: Assessment of the security of the proposed improvement, including data processing, vulnerability protection and compliance with cryptography standards;
- Potential for future development: An assessment of how much the proposed improvement can be further developed and supported in future versions of the Acki Nacki protocol;
- Demonstration of work: An assessment of how well the team has demonstrated the work of its improvement through prototypes, presentations and other means;
- Compliance with the tasks of the hackathon: An assessment of how the proposed improvement corresponds to the tasks and goals of the hackathon described in the original post.

☐ Official Communication Channel

Contact us:

e-mail: support@gosh.sh

Telegram channel

☐ Judge Panel

- Mitja Goroshevsky
- Andrew Kurochkin
- Sergei Blinov
- Andrey Lyashin
- Boris Ivanovsky