BLOCKCHAIN NFT INTEGRATION WITH ACCESS CONTROL SYSTEM

Project Title: Blockchain NFT Integration with Access Control System

Summary:

This proposal aims to explore and implement a project that combines blockchain Non-Fungible Tokens (NFTs) with an access control system. By integrating NFT technology with access control systems, we can achieve a higher level of security and control to meet the security management needs of various facilities.

Project Background:

With the rapid advancement of blockchain technology, NFTs have become a hot topic in the digital asset space. NFTs are unique, non-replaceable digital assets that can represent ownership of physical or virtual assets. Access control systems are crucial tools for managing security in a specific location or building. By bringing these two domains together, we can enhance identity verification and control.

Project Objectives:

The primary objectives of this project are to apply NFT technology to access control systems to provide the following advantages:

1. **Enhanced Security:** Use NFTs to verify user identities and prevent unauthorized access.
2. **Configurability:** Administrators can configure access control rules and permissions as needed.
3. **Scalability:** Easily expand the system to multiple locations and buildings.

Project Plan:

1. **Requirements Analysis:** Determine the access control needs for different facilities, including user identity verification, access permissions, and record retention.
2. **NFT Creation:** Create NFTs to represent user identities and store them on the blockchain.
3. **Integration with Access Control System:** Integrate NFTs into the access control system to verify user identities and control access.
4. **Recording and Auditing:** Store access control records for security, facilitating auditing.
5. **Testing and Optimization:** Test the system in real-world environments and optimize it based on feedback.
6. **Expansion:** Expand the system to more locations as needed.

Project Budget:

The budget for this project will be adjusted based on specific requirements and scale.

Major budget items include:

1. **Development and Integration Costs:** Includes expenses for NFT creation, access control system integration, and system testing.
2. **Hardware and Equipment:** Purchase access control hardware and equipment if necessary.
3. **Training Costs:** Train staff and administrators in the use of the new system.
4. **Maintenance and Operational Expenses:** Includes operating and maintaining blockchain nodes.

Expected Deliverable:

Through the implementation of this project, we anticipate achieving the following deliverable:

1. Improved security and control of access control systems.
2. Enhanced traceability of access control records.
3. Configurable access control solutions for different facilities.
4. Infrastructure for future expansion.

Project Timeline:

The project timeline will be tailored to specific requirements, but we aim to complete the project within **Q2 2025**.

Conclusion:

This proposal seeks to combine blockchain NFT technology with access control systems to enhance security and control. We look forward to your support and approval to move forward with the implementation of this innovative project.

If you require a more detailed proposal or have specific requirements, please feel free to contact us, and we will adjust and refine it according to your needs.

Appendix:

Team   **:** HEROKOO, JOEZONE, CSTEH, JACK

Website   **:** https://www.pandav.io

Email   **:** info@pandav.io

WhatsApp **:** +60186622980

X/Twitter   **:** https://twitter.com/PandaV_io

Telegram   **:** https://t.me/pandav_io

PandaV Token ($PDV)

Fueling Access Control in the ERGO Blockchain Ecosystem

Abstract:

PandaV Token ($PDV) stands at the forefront of revolutionizing access control within the ERGO blockchain ecosystem. Designed as the exclusive currency for minting access cards (NFTs), PandaV offers a seamless and secure solution for managing digital access privileges. Users must utilize PandaV Tokens for every minting transaction, ensuring the integrity of access control mechanisms. Moreover, the collected fees are channeled back into the treasury, enriching token holders and fostering community growth.

Introduction:

In today's digital landscape, secure access control mechanisms are paramount for safeguarding sensitive information and digital assets. Recognizing this need, we introduce PandaV Token, a utility token built on the ERGO blockchain, dedicated to enhancing access control systems. PandaV Token serves as the cornerstone of our innovative approach to access management, facilitating the creation of access cards (NFTs) while rewarding token holders for their participation in the ecosystem.

Token Utilities:

- ❖ Token holders can participate in the management and decision-making of the project by holding and using tokens. For example, users who hold tokens can vote on specific proposals, which may involve the project's development direction, fund usage, technical improvements, and more.

- ❖ The project's profits will be fully returned to investors, with the specific method yet to be determined. This may be done through airdrops, buybacks, or a combination of both in a certain proportion. We will use a DAO community voting model to make the decision.

Key Features and Functionality:

Exclusive Minting Access: PandaV Token is the sole currency accepted for minting access cards within the ERGO blockchain ecosystem. This ensures a streamlined and standardized process for managing digital access rights.

Treasury Distribution: All fees collected from access card minting transactions are directed back into the treasury. These funds are subsequently distributed to PandaV token holders, incentivizing continued engagement and investment in the ecosystem.

Transparent Governance: PandaV Token holders have a vested interest in the governance of the ecosystem. As such, they are granted voting rights and influence over important decisions affecting the future development and direction of the project.
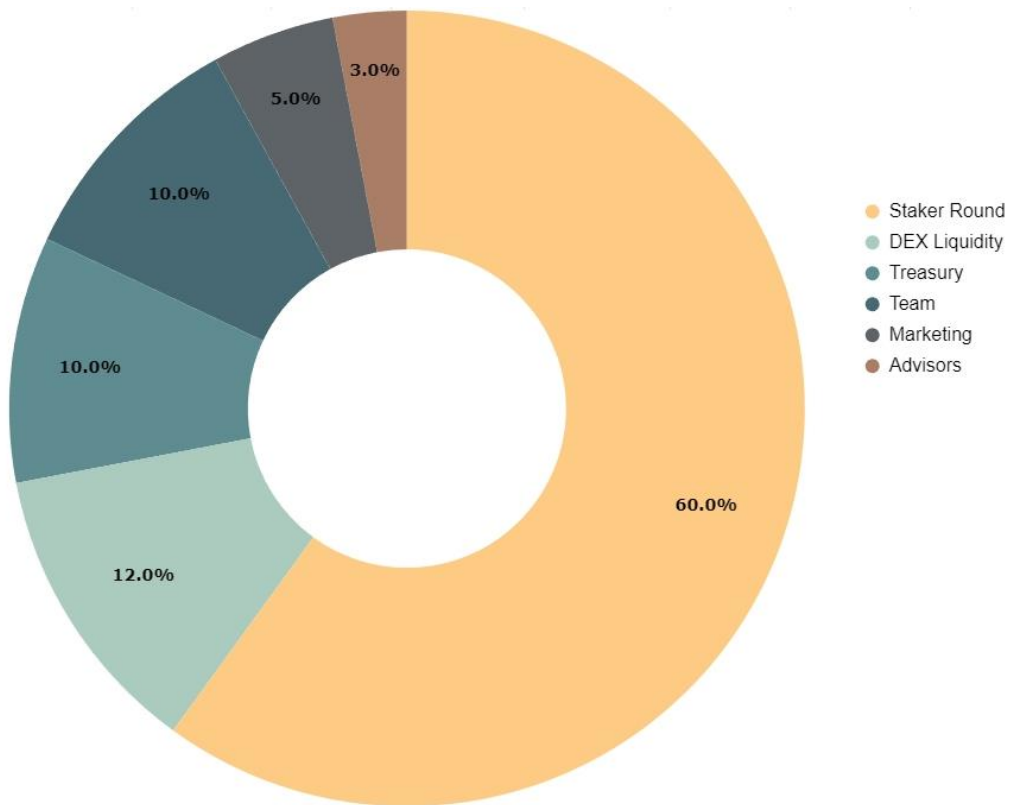
Community Growth: By fostering a vibrant and engaged community of token holders, PandaV Token aims to drive organic growth and adoption within the ERGO blockchain ecosystem. Through collaborative efforts and shared incentives, we strive to create a thriving ecosystem built on trust, transparency, and accessibility.

Conclusion:

PandaV Token represents a paradigm shift in access control solutions within the ERGO blockchain ecosystem. By leveraging the power of blockchain technology and tokenomics, we aim to redefine the way digital access rights are managed and distributed. With PandaV Token at the helm, we envision a future where secure and seamless access control is accessible to all, empowering individuals and organizations alike to protect their digital assets with confidence.
Join us on this trans-formative journey and become a part of the PandaV Token ecosystem today.

Tokenomics Distribution (Excluding Yield)

Supply : 10,000,000

Legend:
- Staker Round
- DEX Liquidity
- Treasury
- Team
- Marketing
- Advisors

Chart values: 60.0%, 12.0%, 10.0%, 10.0%, 5.0%, 3.0%

PandaV Project Roadmap & Milestones

Dec 2023

Create PandaV official website, X(Twitter), Telegram group, Github & medium.

JAN 2024

Design & Prototyping
- ❖ Prototypes of NFT door access
- ❖ Draft a project whitepaper

MAY 2024

Token Launch
- ❖ Smart Contract Development and Token Launch

JUN 2024

Development Phase 1
- ❖ Developing an Access Control System on the ERGO Blockchain

User Story:

1st milestone is develop an MVP version of the access control system.

Deliverables:

Users can open doors using NFTs QR on their smartphones.

Stage 1

Set up version control system (Git) and create a project repository. Establish the development environment and install necessary tools.

Stage 2

Create User interface:
1. Page layout & option
2. Module and setting
3. QR code and scanner page

JUL 2024

Stage 3

Update local & cloud database structure
4. Token table
5. Transaction table
6. Setting table
7. Report table

AUG 2024

Stage 4

Testing & Deployment
1. Write testing script.
2. Perform testing and fix for bug occurred
3. Push to master repository

SEPT 2024

Development Phase 2
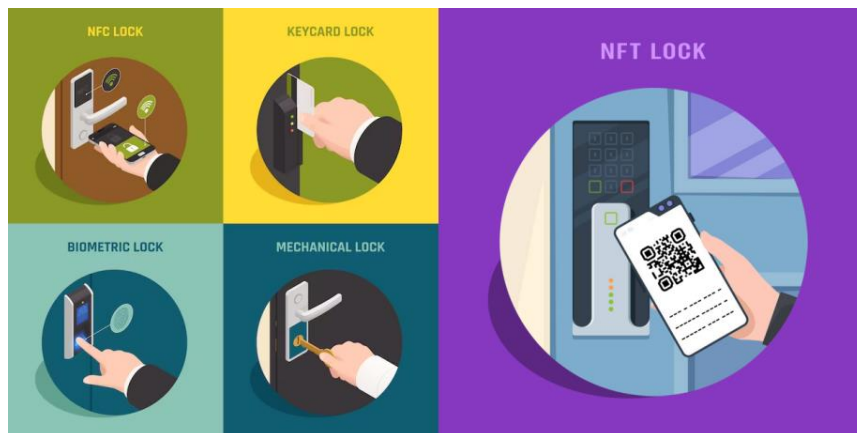❖ Replacing Access Cards with NFT Technology

User Story :
2nd milestone Hardware Installation & Replacing Access Cards with NFT Technology.

Deliverables :
User able to use NFT as Access card.
PandaV App display NFT QR Code as Access card.

Sprint 1

Create the User interface :
1. User create NFT as access card
2. User manage NFT access card

Sprint 2

Update local & cloud database structure.
3. NFT Access card table

OCT 2024

Sprint 3

To begin coding, transform the concept into a finished product.
4. Front end & Backend coding

NOV 2024

Sprint 4

Testing & Deployment
1. Write testing script.
2. Perform testing and fix any bug occurred
3. Push to master repository.

DEC 2024

Finalization and Deployment
❖ Optimization and Refinement, Documentation and Training

JAN 2025

Official Launch and Marketing
❖ Officially launch the NFT door access system.
❖ Implement marketing strategies.

Team Member

HERO KOO - PandaV Founder

- ❖ **Achievements:** 5Years experience in security system such Alarm & Automation, CCTV, Door Access System, Auto-gate System & PC Networking. Created several successful popular forums, such as the Malaysia Android Forum and the M-Girls Artist Fan's Forum. In addition, participated in the development of various FinTech projects, such as iRemit, PayNGo, and Lvyou wallet.

- ❖ **Graduate:** Tunku Abdul Rahman University
- ❖ **Social Link:** https://twitter.com/cwkoo_my

C.S.TEH - PandaV Co-Founder

- ❖ **Achievements:** In addition to being a primary school teacher, I founded a charitable organization called Foodbank to assist local impoverished families. Previously, I served as a Key Opinion Leader (KOL) for the PIONEX crypto exchange platform and was an angel investor for the LBank crypto exchange platform in 2023. I am also one of the core members of DiscussWeb3. Additionally, I served as the Chief Operating Officer of a clothing manufacturing factory from 2004 to 2016.

- ❖ **Graduate:** University Pendidikan Sultan Idris
- ❖ **Social link:** https://twitter.com/Cstehbeauty

JOEZONE JOE - PandaV IT Technician

- ❖ **Achievements:** Over 10 years experience in security system such Alarm & Automation, CCTV, Door Access System, Auto-gate System & Electrical.

- ❖ **Graduate:** INTI International University
- ❖ **Social:** https://t.me/Joezone_my

JACK - PandaV Full Stack Developer

- ❖ **Achievements:** Successfully led the development of a full-fledged e-commerce website from scratch, including front-end, back-end, and database design. Resulted in a 30% increase in online sales within the first quarter after launch.

- ❖ **Graduate:** Sunway University
- ❖ **Social:** https://twitter.com/defu_rao82477

区块链 NFT 搭配门禁及访问控制系统

项目：区块链 NFT 搭配门禁及访问控制系统

摘要：
本提案旨在探索并实施将区块链非同质化代币（NFT）门禁及访问控制系统相结合的项目。通过将 NFT 技术门禁及访问控制系统整合，我们可以实现更高水平的安全性和控制，以满足各种设施的安全管理需求。

项目背景：
随着区块链技术的快速发展，NFT 已成为数字资产领域的热门话题。NFT 是独特的、不可替代的数字资产，可以代表对物理或虚拟资产的所有权。门禁及访问控制系统是管理特定位置或建筑物安全的关键工具。通过将这两个领域结合起来，我们可以增强身份验证和控制。

项目目标：
本项目的主要目标是将 NFT 技术应用于门禁及访问控制系统，以提供以下优势：

1. 增强安全性：使用 NFT 验证用户身份，防止未经授权的访问。
2. 可配置性：管理员可以根据需要配置门禁及访问控制规则和权限。
3. 可扩展性：轻松将系统扩展到多个位置和建筑物。

项目计划：
1. 需求分析：确定不同设施的门禁及访问控制需求，包括用户身份验证、访问权限和记录保留。
2. NFT 创建：创建 NFT 以代表用户身份，并将其存储在区块链上。
3. 门禁及访问控制系统的集成：将 NFT 整合到门禁及访问控制系统中，以验证用户身份和控制访问。
4. 记录和审核：存储门禁及访问控制记录以用于安全性，便于审核。
5. 测试和优化：在实际环境中测试系统，并根据反馈进行优化。
6. 扩展：根据需要将系统扩展到更多位置。

项目预算：

该项目的预算将根据具体需求和规模进行调整，主要预算项目包括：

1. 开发和集成成本：包括 NFT 创建、门禁及访问控制系统集成和系统测试的费用。
2. 硬件和设备：如有必要，购买门禁及访问控制硬件和设备。
3. 培训成本：培训员工和管理员使用新系统。
4. 维护和运营费用：包括运营和维护区块链节点的费用。

预期成果：

通过实施本项目，我们预计将实现以下交付成果：

1. 提高门禁及访问控制系统的安全性和控制。
2. 增强门禁及访问控制记录的可追溯性。
3. 为不同设施提供可配置的门禁及访问控制解决方案。
4. 未来扩展的基础设施。

项目时间表：

项目时间表将根据具体需求进行调整，但我们的目标是在 2025 年第二季度内完成项目。

总结：

本提案旨在将区块链 NFT 技术门禁及访问控制系统相结合，以增强安全性和控制。我们期待您的支持和批准，以推动这一创新项目的实施。

如果您需要更详细的提案或具体的需求，请随时与我们联系，我们将根据您的需求进行调整和完善。

附录：

团队：HEROKOO, JOEZONE, CSTEH, JACK

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联系 ：+60186622980

X 站 ：https://twitter.com/PandaV_io

社群：https://t.me/pandav_io

PandaV 代币 ($PDV)

推动 ERGO 区块链生态系统中的访问控制

摘要：

PandaV 代币（$PDV）站在革命化 ERGO 区块链生态系统内的访问控制前沿。作为铸造访问卡（NFT）的独家货币设计，PandaV 提供了一种无缝而安全的解决方案，用于管理数字访问权限。用户必须在每个铸造交易中使用 PandaV 代币，以确保访问控制机制的完整性。此外，收取的费用将流回资金库，丰富代币持有者并促进社区增长。

介绍：

在当今的数字化格局中，安全的访问控制机制对于保护敏感信息和数字资产至关重要。认识到这一需求，我们引入了 PandaV 代币，这是一个建立在 ERGO 区块链上的实用代币，致力于增强门禁及访问控制系统。PandaV 代币是我们创新访问管理方法的基石，促进了访问卡（NFT）的创建，同时奖励代币持有者参与生态系统。

代币实用性：

❖ 代币持有者可以通过持有和使用代币来参与项目的管理和决策投票。例如，持有代币的用户可以在特定的提案上投票，这些提案可能涉及项目的发展方向、资金使用、技术改进等。

❖ 项目的盈利将百分之百返还给投资者，具体方式待定。可能采用空投方式，或通过回购行为实现，或者两者按一定比例同时进行。我们将采用 DAO 社区投票模式来做出决定。

关键特点和功能：

独家铸造访问：PandaV 代币是 ERGO 区块链生态系统内铸造访问卡的唯一货币。这确保了一个简化和标准化的过程来管理数字访问权限。

资金库分配：从铸造访问卡交易中收取的所有费用都会返回资金库。随后，这些资金将分配给 PandaV 代币持有者，激励他们继续参与和投资生态系统。

透明治理：PandaV 代币持有者对生态系统的治理具有利益关系。因此，他们被赋予了投票权，并影响着影响项目未来发展和方向的重要决策。

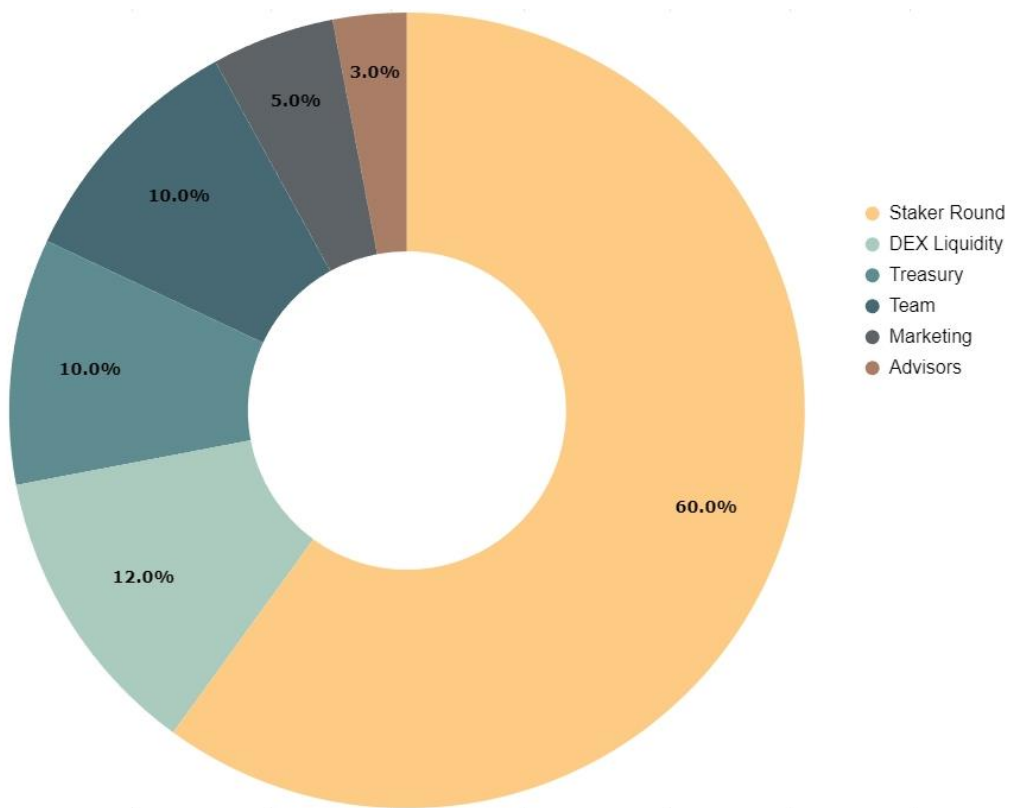社区增长：通过培育一个充满活力和参与度高的代币持有者社区，PandaV 代币旨在推动 ERGO 区块链生态系统内的有机增长和采用。通过协作努力和共享激励，我们努力创建一个建立在信任、透明度和可访问性基础上的蓬勃发展的生态系统。

结论：

PandaV 代币代表了 ERGO 区块链生态系统内访问控制解决方案的范式转变。通过利用区块链技术和代币经济学的力量，我们的目标是重新定义数字访问权限的管理和分配方式。有了 PandaV 代币的引领，我们展望着一个未来，安全而无缝的访问控制对所有人都是可访问的，从而使个人和组织都能够自信地保护其数字资产。加入我们的这一变革之旅，并成为今天 PandaV 代币生态系统的一部分。

代币经济学分配（不包括收益）

供应: 10,000,000

Legend:
- Staker Round — 60.0%
- DEX Liquidity — 12.0%
- Treasury — 10.0%
- Team — 10.0%
- Marketing — 5.0%
- Advisors — 3.0%

PandaV 项目路线图与里程碑

2023 年 12 月
创建 PandaV 官方网站、X（Twitter）、Telegram 群组、Github 和 Medium。

2024 年 1 月
设计与原型制作
- ❖　·NFT 门禁的原型
- ❖　·起草项目白皮书

2024 年 5 月
代币发布
- ❖　·智能合约开发和代币发布

2024 年 6 月
第一阶段开发
- ❖　·ERGO 区块链上开发门禁及访问控制系统

用户故事：
第一个里程碑是开发门禁及访问控制系统的 MVP 版本。

交付成果：
用户可以使用他们智能手机上的 NFT QR 码开门。

阶段 1

建立版本控制系统（Git）并创建项目存储库。建立开发环境并安装必要的工具。

阶段 2

创建用户界面：

1. 页面布局和选项
2. 模块和设置
3. QR 码和扫描页面

2024 年 7 月

阶段 3

更新本地和云数据库结构

4. 代币表
5. 交易表
6. 设置表
7. 报告表

2024 年 8 月

阶段 4

测试与部署

1. 编写测试脚本。
2. 执行测试并修复出现的错误。
3. 推送到主存储库。

2024 年 9 月
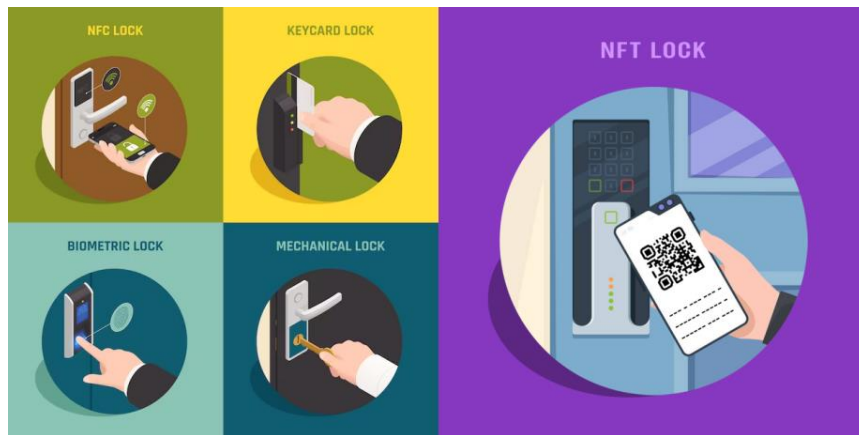
第二阶段开发

❖ ・用 NFT 技术替代访问卡

用户故事：

第二个里程碑是硬件安装和用 NFT 技术替代访问卡。

交付成果：

用户能够使用 NFT 作为访问卡。

PandaV 应用程序显示 NFT QR 码作为访问卡。

冲刺 1
创建用户界面：
1. 用户创建 NFT 作为访问卡
2. 用户管理 NFT 访问卡

冲刺 2
更新本地和云数据库结构。
3. NFT 访问卡表

2024 年 10 月
冲刺 3
开始编码，将概念转化为成品。
4. 前端和后端编码

2024 年 11 月
冲刺 4
测试与部署
1. 编写测试脚本。
2. 执行测试并修复任何出现的错误。
3. 推送到主存储库。

2024 年 12 月
最终化和部署
·优化和改进，文档和培训

2025 年 1 月
官方发布和营销
·正式发布 NFT 门禁及访问控制系统。
·实施营销策略。

团队成员

HERO KOO - PandaV 创始人
- ❖ 成就：在安全系统方面拥有 5 年的经验，如报警和自动化、闭路电视、门禁系统、自动门系统和电脑网络。创建了几个成功的热门论坛，如马来西亚安卓论坛和 M-Girls 艺人粉丝论坛。此外，参与了各种金融科技项目的开发，如 iRemit、PayNGo 和 Lvyou 钱包。
- ❖ 毕业： Tunku Abdul Rahman University
- ❖ 社交： https://twitter.com/cwkoo_my

C.S.TEH - PandaV 联合创始人
- ❖ 成就：除了担任小学教师外，我还创立了一个名为"食物银行"的慈善组织，以帮助当地贫困家庭。此前，我曾担任 PIONEX 加密交易平台的主要意见领袖（KOL），并于 2023 年成为 LBank 加密交易平台的天使投资人。我还是 DiscussWeb3 的核心成员之一。此外，我曾担任一家服装制造工厂的首席运营官，任职期间为 2004 年至 2016 年。
- ❖ 毕业：University Pendidikan Sultan Idris
- ❖ 社交：https://twitter.com/Cstehbeauty

JOEZONE JOE - PandaV IT 技术员
- ❖ 成就：在安全系统方面拥有超过 10 年的经验，包括报警和自动化、闭路电视、门禁系统、自动门系统和电气工程。
- ❖ 毕业：INTI International University
- ❖ 社交：https://t.me/Joezone_my

JACK - PandaV 全栈开发者
- ❖ 成就：成功领导了一个全新电子商务网站的开发，包括前端、后端和数据库设计。在上线后的第一个季度内，网站在线销售额增加了 30%。
- ❖ 毕业：Sunway University
- ❖ 社交：https://twitter.com/defu_rao82477