

# **Monthly Report for Mpendulo Cwele**

**Month: November 2025**

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# 1. Introduction

- This report outlines the progress and achievements of **Mpendulo Cwele** for the month of **November 2025**, covering her learning activities, blockchain development tasks, and ongoing research contributions.

## 2. Haskell Learning and Assessments

### 2.1 Completion of 24 Haskell Quizzes

- During November 2025, Mpendulo demonstrated significant dedication to her programming studies by completing **24 Haskell quizzes**. These assessments strengthened her understanding of key concepts such as:
  - Functional programming basics
  - Recursion and pattern matching
  - Higher-order functions
  - List operations and data structures
  - Introductory Plutus-related Haskell concepts
  - Her consistent completion of these quizzes reflects solid progress and growing confidence in Haskell.

# 3. Token Minting Achievement

- Mpendulo successfully **minted her tokens** this month, demonstrating practical knowledge of Cardano's Extended UTxO model, minting policies, and native asset creation. This achievement shows her ability to apply theoretical concepts to blockchain development and interact with smart contract-based token systems.

Achieved Haskell Plutus Level : 24/60			Show Menu
No	Task Code	Task Title	
24	CA4001820251112	<a href="#">CA-24-24. Cardano Architecture</a>	
23	CA4001820251112	<a href="#">CA-23-23. Cardano Architecture</a>	
22	CA4001820251112	<a href="#">CA-22-22. Cardano Architecture</a>	
21	HC214001820251112	<a href="#">HC21-21. Haskell Chapter 21 Practical Tasks: Monad Transformers</a>	
20	HC204001820250926	<a href="#">HC20-20. Haskell Chapter 20 Practical Tasks: Monad</a>	
19	HC64001820250921	<a href="#">HC6-6. Haskell Chapter 6 Practical Tasks: Recursion-and-folds</a>	
18	HC194001820250921	<a href="#">HC19-19. Haskell Chapter 19 Practical Tasks: Applicative</a>	
17	HC184001820250920	<a href="#">HC18-18. Haskell Chapter 18 Practical Tasks: Functor</a>	

## **4. Research on Enterprise Information Systems (EIS)**

### **4.1 Overview of EIS**

- Mpendulo conducted a research study focused on **Enterprise Information Systems (EIS)**, exploring how large organisations use integrated systems to:
- Manage organisational data
- Improve workflow efficiency
- Enhance communication and decision-making
- Support automation and scalability

### **4.2 Application of EIS to Improve WIMS Cardano**

- In her analysis, she highlighted how EIS concepts could enhance **WIMS Cardano**, specifically through:
- Streamlined data management
- Improved system reliability
- Enhanced scalability for handling large datasets
- Better integration across different organisational tools
- Automated workflows for token management and reporting

## 5. Current Research: Cyber Security for WIMS Cardano

- **5.1 Cyber Security Concepts**
- Mpendulo is currently researching **cyber security**, studying key areas such as:
  - Common blockchain and network security threats
  - Authentication and access control
  - Encryption technologies
  - Secure smart contract development
  - Threat detection and vulnerability assessment
- **5.2 Security Improvements for WIMS Cardano**
- Her ongoing research explores how improved cybersecurity can strengthen the WIMS Cardano system by:
  - Increasing platform trust and user safety
  - Reducing risks of data breaches and unauthorised access
  - Enhancing the protection of smart contracts
  - Ensuring secure token operations and system integrity

## 6. Summary and Conclusion

- November 2025 has been a highly productive month for Mpendulo Cwele. She has shown excellent progress in Haskell, successfully minted her tokens, completed meaningful research on Enterprise Information Systems, and is currently expanding her knowledge in cyber security to contribute to improving the WIMS Cardano ecosystem. Her work reflects commitment, growth, and strong potential in both software development and blockchain research.