



Himaya

Hushed protector of health data

Computer



Recycle Bin



Acrobat
Reader DC



Mozilla
Firefox

Your computer files have been encrypted. Your photos, videos, documents, etc....
But, don't worry! I have not deleted them, yet.
You have 24 hours to pay 150 USD in Bitcoins to get the decryption key.
Every hour files will be deleted. Increasing in amount every time.
After 72 hours all that are left will be deleted.

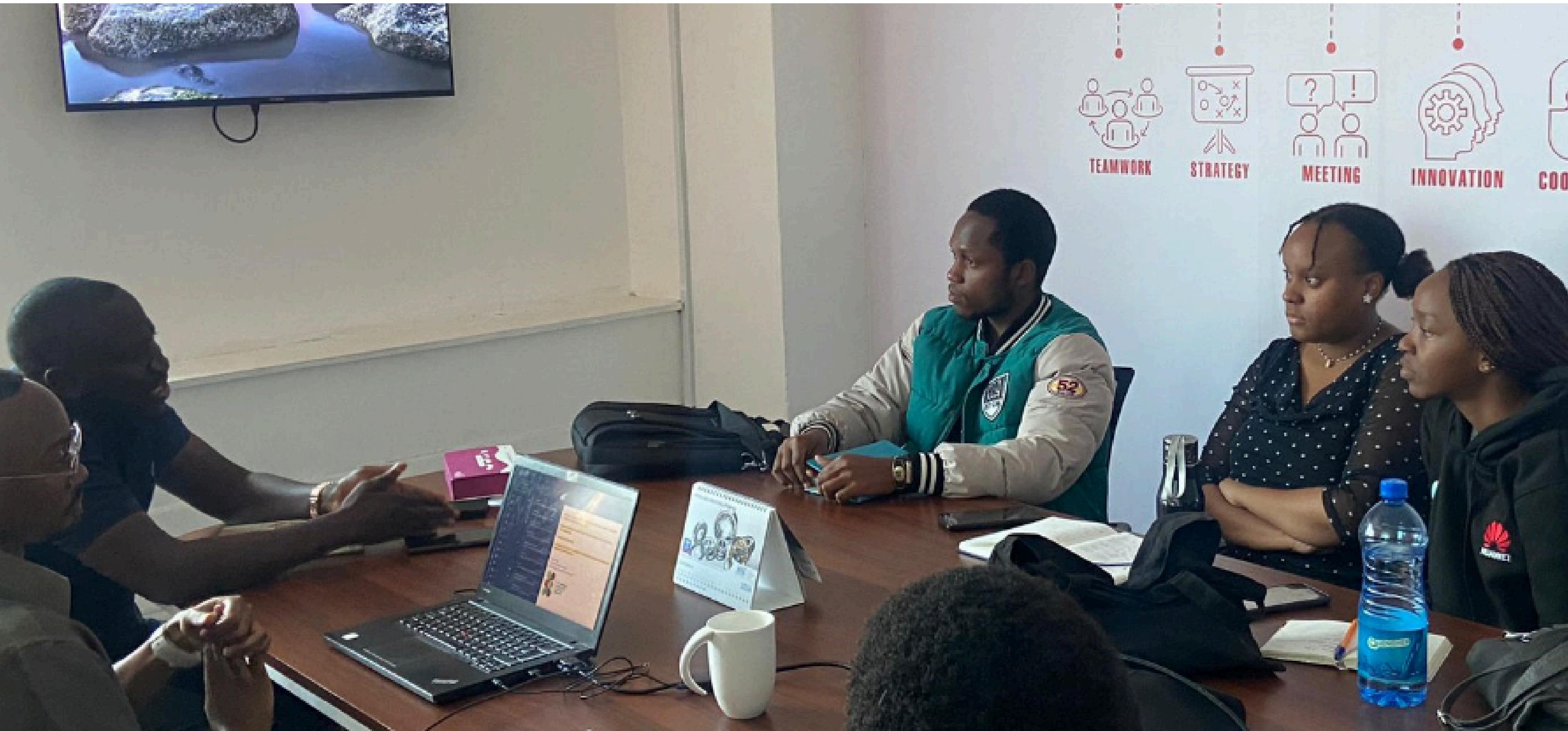


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Context

67% of healthcare organizations hit by Ransomware this year

Pilot Study



The Problem

64% of MediHeal Nairobi staff faced cybersecurity threats from autogenerated emails

Research Questions

What techniques can we use to effectively detect ransomware signatures in emails?

What design of an alert system can we use to effectively communicate ransomware threats to healthcare staff, ensuring urgency without being ignored?

What is the effectiveness of using threat intelligence databases and a proper alerting system to detect ransomware in phishing emails?

Solution Idea

Email Server



Add-on activation

→ Activated by opening emails



Threat Analysis

→ Use of threat intelligence
databases to detect
ransomware signatures



Detection



Alerting

Ransomware Link Inbox x

Peter Trades
to me ▾

Hi bro,

Check out this cool tool:
<https://hackingloading157.ddns.net>

I loved it. You will too

Wed, Oct 16, 4:54 PM (7 days ago)








← Reply

→ Forward



⚠️ ALERT: 🚫🔴 RANSOMWARE ASSOCIATED LINK 🚫🔴 ⚠️



1.   Do not  click on any attached link or attachment.  
2.  Immediately contact your hospital's cybersecurity/IT specialist for further assistance. 

Responsible Computing.

Privacy
Accountability
Accessibility

Gap



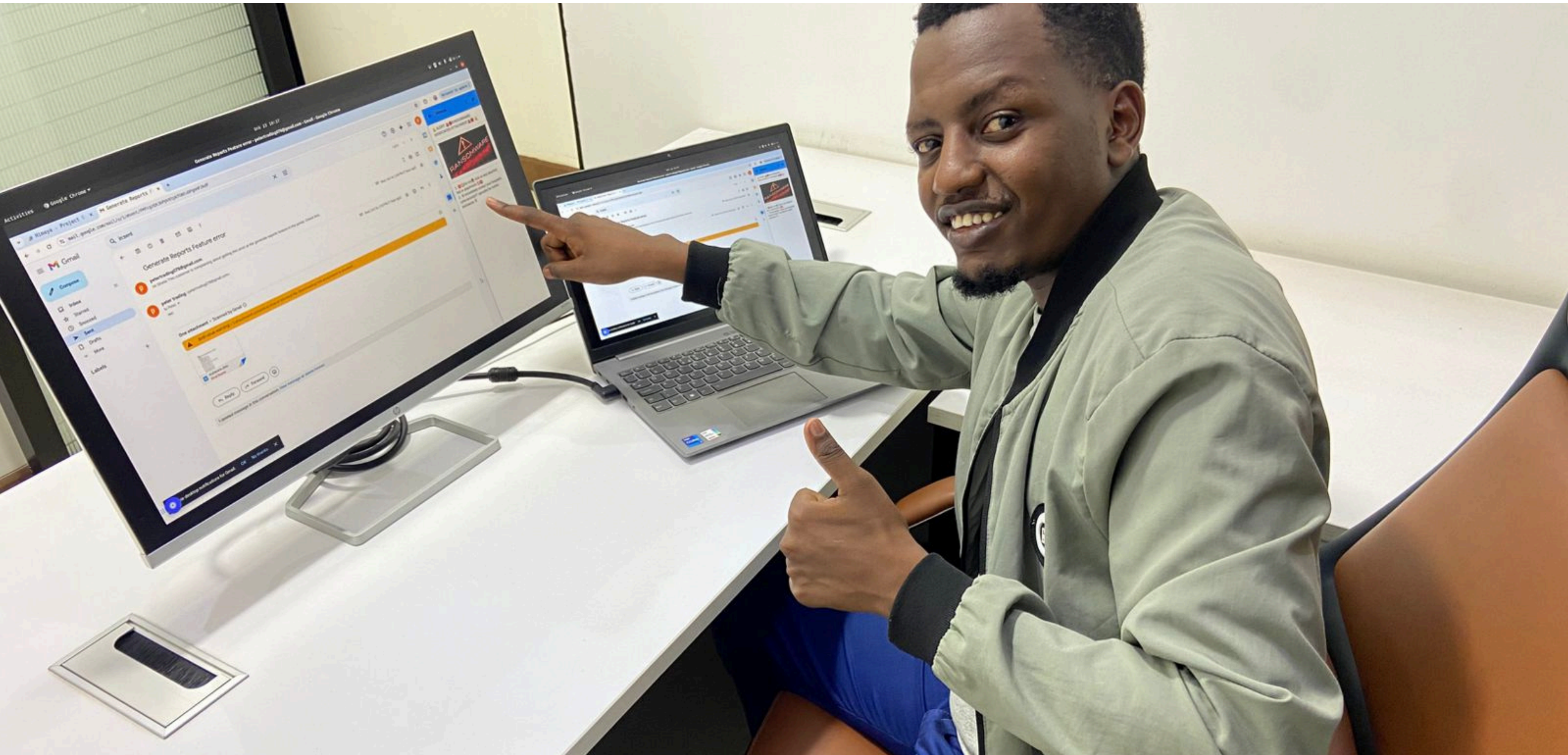
Market Opportunity

2,860 hospitals use an integrated system connecting all departments

Revenue Model

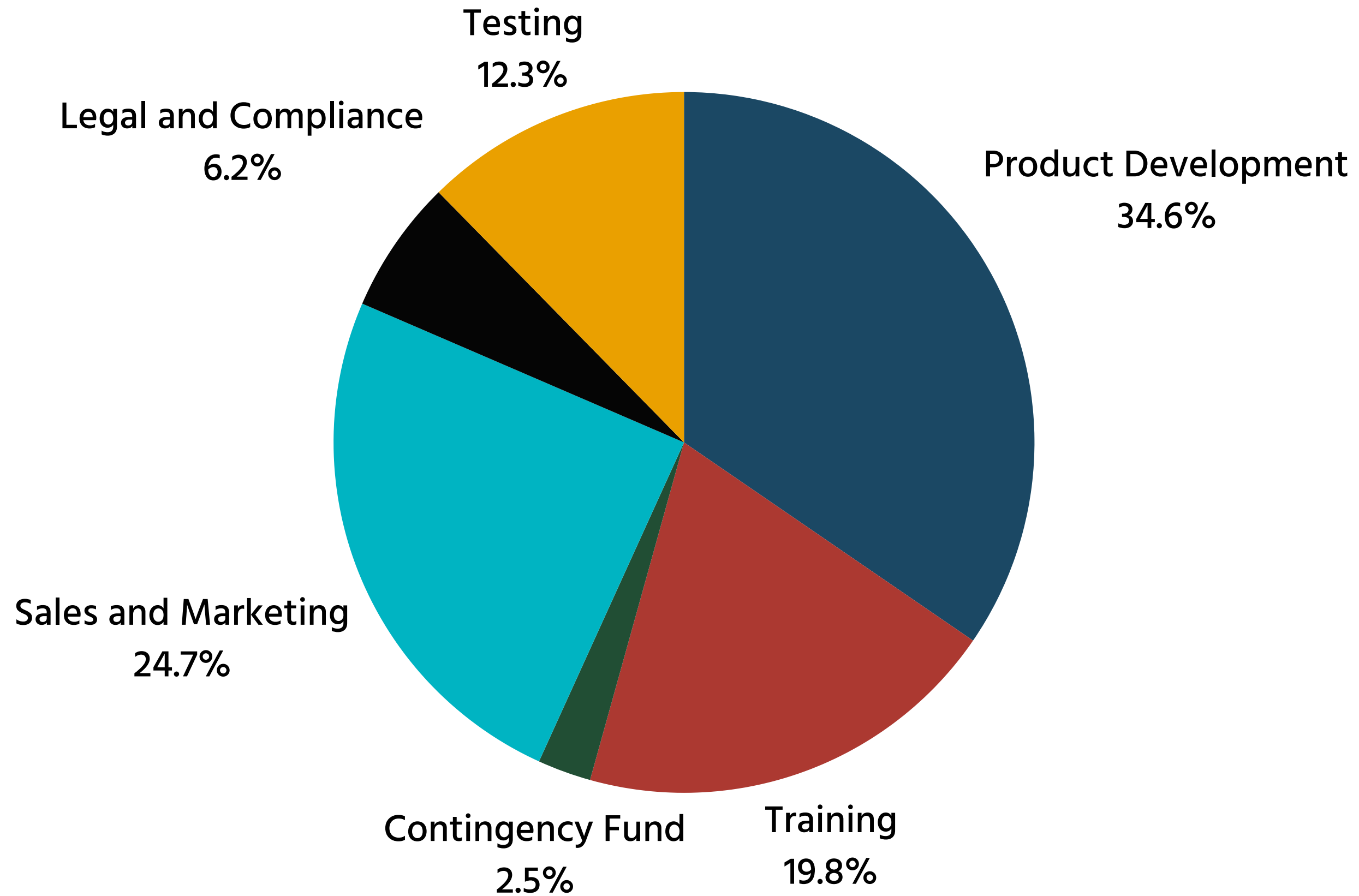
Freemium Model	Small Hospitals Plan	Medium-Size Hospitals	Large Hospitals
Free Ransomware Detection	Group of 1-20 users	Group of 20-60 users	Group of 60+ users
Limited Email Scans	Unlimited Email Scans	Unlimited Email Scans	Unlimited Email Scans
	KSH 8500 Per User Annually	KSH 8000 Per User Annually	KSH 7500 Per User Annually

Traction



Solution Build Ask

KES 4,050,000



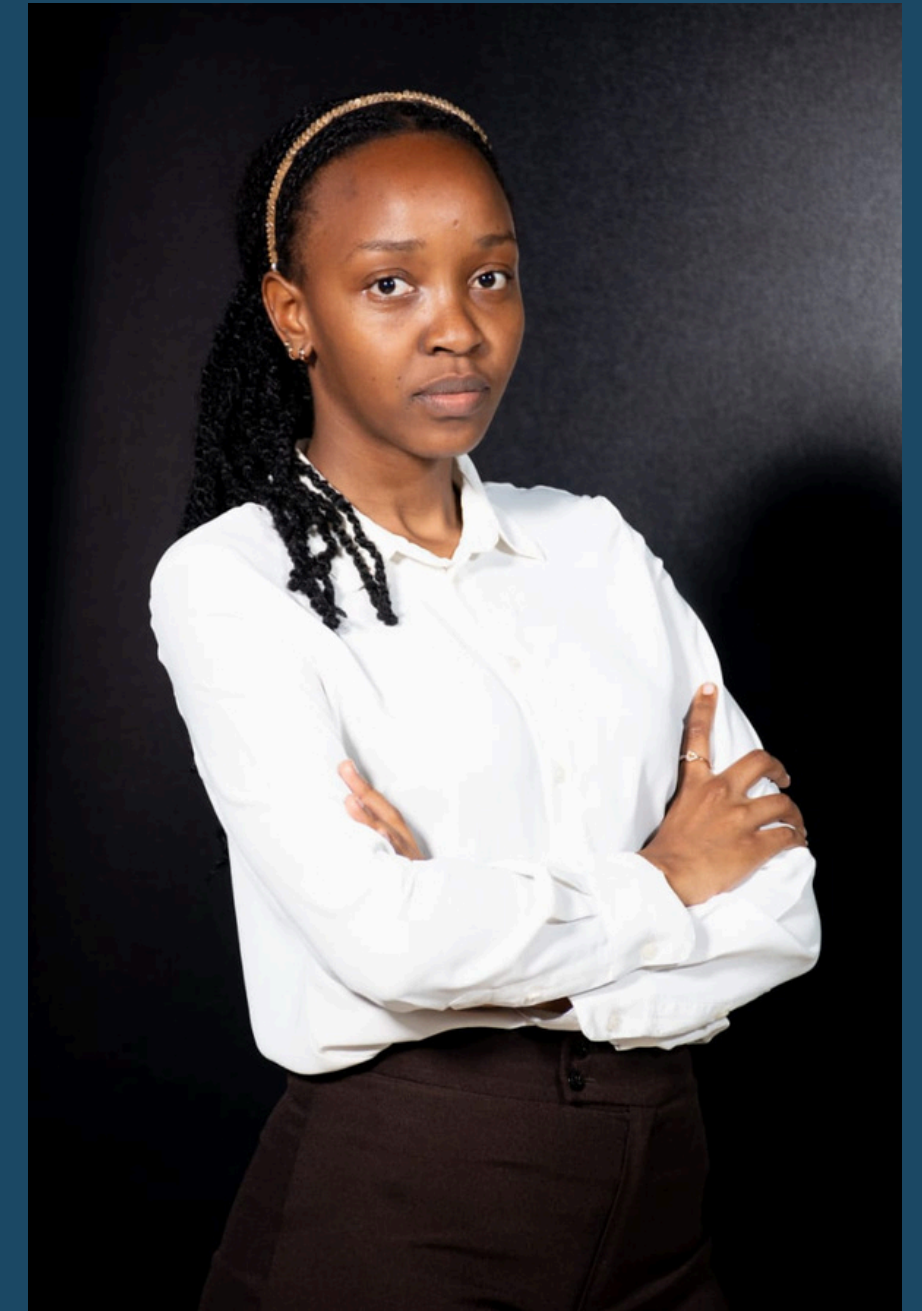
Team



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Team Lead and Threat
Analyst



Peter Wambua
Penetration Tester



Linet Ithara
Network Security
Engineer



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