



iCheck Anti-Counterfeit
Technology by **MobiSky**
Innovations

Who we are

MobiSky Innovations is a mobile technology solutions development company seeking to provide software solutions to drive and support businesses processes, with a major focus on efficiency, cost saving and decision support.

Some of our Clients



Challenges

Colleges & Universities who do not invest on anti-counterfeit documents, means:

1. Loss of Reputation & Integrity : The Reputation of the university who's certificates are not protected by anti-counterfeit technologies and are easily copy-able can potentially lead to lower reputation and integrity of the institution hence directly affecting the alumni, current & future students.

2. Degree Mills make more money!: Certificates that easily copied means degree mills have more options to provide to their 'customers' and hence make more illegal money via fraud.

3. Indirectly risking lives: Counterfeit certificates also mean fake doctors or engineers hence putting human lives at risk.

4. Employers Shy Away: Well known employers hesitate hiring people from Universities who have an unfortunate reputation of easy availability of counterfeit degrees.

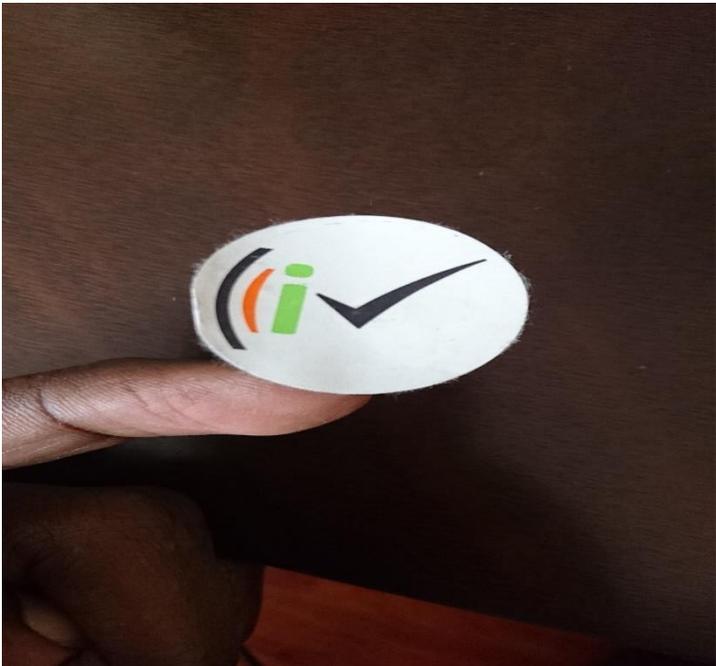
Therefore educational Institutions suffer in the long run!

Solution

- ▶ *The NFC chip*: An efficient tool against counterfeiting. Each NFC chip has a unique international identifier which is impossible to duplicate. A manufacturer or a brand who buys NFC chips will be the single and exclusive owner of those chips' numbers.
- ▶ The chip can be read with a simple smartphone which is equipped with NFC technology or a specific NFC reader.
- ▶ That means consumers or customs officers can very easily authenticate a product and check it is not a fake. The NFC chip acts as an electronic certificate of authenticity.
- ▶ iCheck is an anti-counterfeit system that uses NFC technology to fight counterfeit products.

iCheck tag image

- ▶ Chip with logo-Front side



- ▶ Chip with Antenna- Back side



iCheck Anti-Counterfeit Benefits

- ▶ Reputed colleges & universities around the world constantly upgrade or change their security policies in line with market threats – be it physical security of the campus to the graduate certificate.

Although no degree or a bank currency note is ever counterfeit proof but by adopting latest technologies and design changes, we can stay one step ahead of counterfeiters, which is why it is almost impossible to find a counterfeit degree of world's top educational institutions.

Some of the benefits but not limited to of implementing such solution are:

- ▶ Increased positive reputation of the university.
- ▶ Increased student enrollments.
- ▶ Better job prospects for graduate students.
- ▶ Increased chances of international accreditations by renowned bodies.
- ▶ Location of iCheck based certificate in Kenya and the world.

How NFC works

- ▶ The system comprises a remote verification server having a database storing the records of the certificates; a program module deployed on a smart phone, wherein the smart phone is adapted to communicate with the smart chip of the academic certificate wirelessly or contactless; and the aforesaid certificate, wherein the smart chip of the certificate is readable contactlessly through the smart phone to extract information therein.
- ▶ The smart chip of the certificate is read through the program module, the program module communicates with the remote verification server for extracting information therefrom for verifying the authenticity of the certificate.

Features include

- A layered anti-counterfeit solution that is web based with information of the certificate or document holder. Information includes Photo, full names, ID number, Date of completion, Name of Course and Name of University and Location of the University. The same applies for Primary and high school schools.
- The tamper-proof NFC tag is manufactured and placed inside the Certificate which enhances the security of the document.



NAMES: ERICK KIPKORIR KIPKAPTO

ID NO: 25093245

STUDENT NO: 12S01DBT005

NAME OF COURSE: BACHELOR OF
BUSINESS IN INFORMATION
TECHNOLOGY

UNIVERSITY NAME: KENYATTA
UNIVERSITY
APPROVED BY



NAMES: KARIMI NAOMI
KAWIRA

INDEX NO: 12S01DBT005

SECONDARY SCHOOL NAME:
PANGANI GIRLS HIGH SCHOOL

LOCATION: NAIROBI

APPROVED BY



NAMES: GOLDALYN KAKUYA

INDEX NO: 12S01DBT005

PRIMARY SCHOOL NAME:
ST ANN JUNIOR LUBAO

LOCATION: KAKAMEGA

APPROVED BY



This is how it will show for
University/College
student

This is how it will show
for high school student

This is how it will
show for Primary
school student

Level of security in iCheck

Original Signature- This is definitely one of the most interesting features, because it discourages any attempts to fake NXP chips passing off as real ones, and provides security about the authenticity of the integrated circuits. That means also the warranty of the unique UID of each NFC chip built. With the unique IDs, this feature is essential for the development of services of authenticity through NFC technology.

Password Protection- This function allows you to lock the encoding of a NFC Tag with a password. This means that those who'll find a password-protected NFC Tag will be able to read it, but not to edit or delete the stored data. It is a function rather useful, especially for Tags that are read unrestrictedly. Not to be confused with cryptography, which instead allows you to read the contents of a Tag only if you are in possession of the encryption key.

UID Ascii Mirroring- The UID Ascii (American Standard Code for Information Interchange) Mirroring allows you to "paste" the NFC Tag UID into an URL, like 'http://example.com/?id=xxxxxxx', where the 7 byte UID is put in place of 'xxxxxxx'.



9 PLANETS, KABARNET RD, OFF NGONG RD NAIROBI

KENYA 74358-00200

+254720003004

info@mobisky.biz / kipkapto@mobisky.biz