

TOUCHWIPE

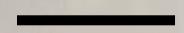
A photograph showing a person's hands interacting with a laptop. The left hand is resting on the keyboard, while the right hand is positioned over the trackpad. The laptop is open and angled slightly. The background is a plain, light color.

AN INITIATIVE TOWARD CYBER
SECURITY AND INNOVATION

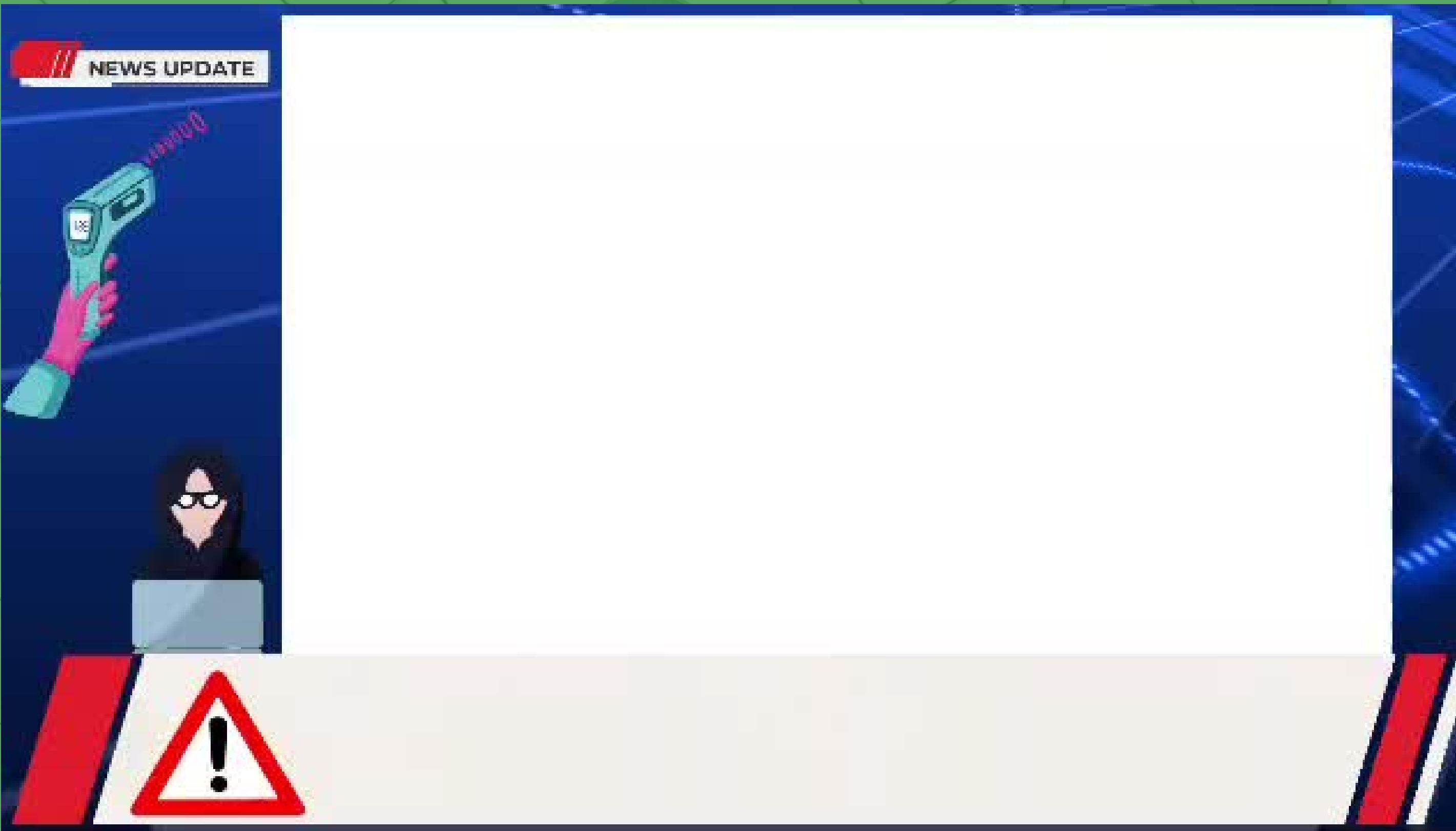
GROWING CYBER CRIME

PROBLEM STATEMENT AND SOLUTION

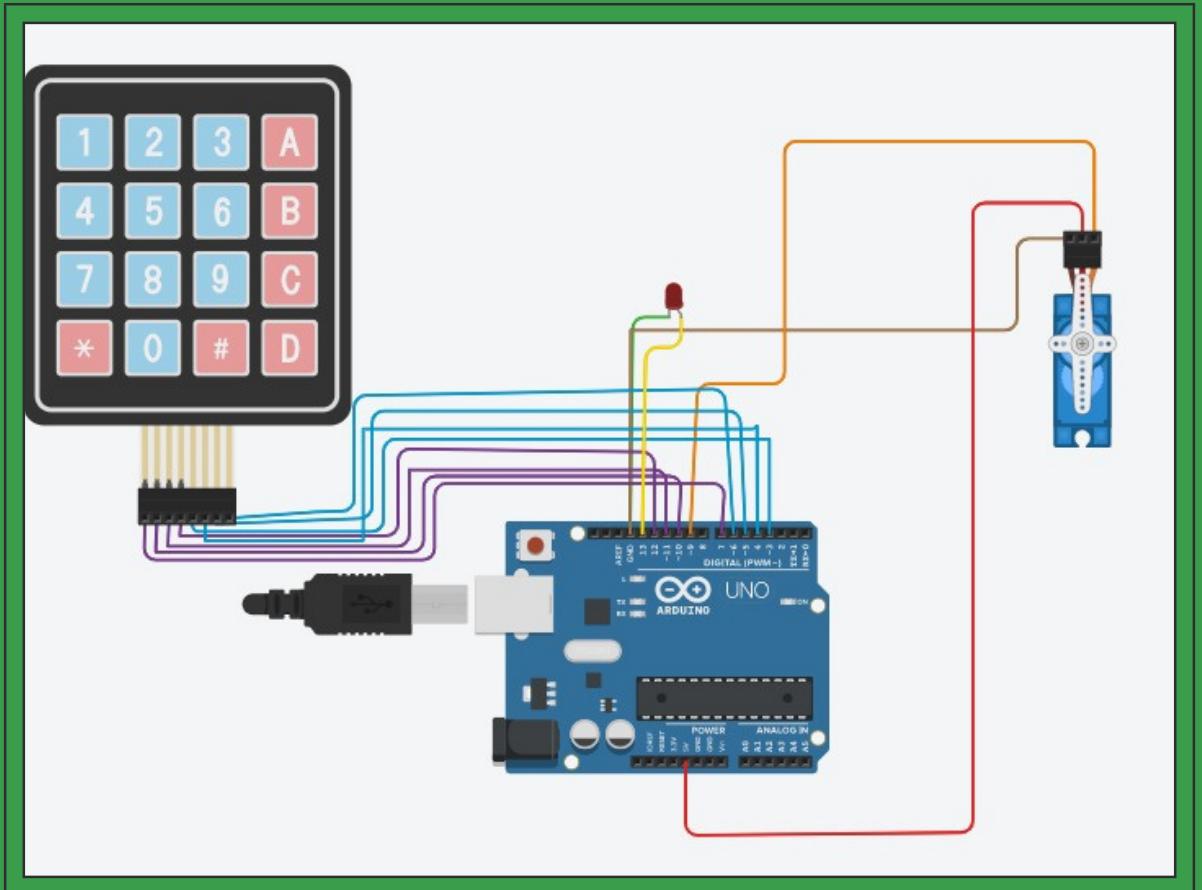
- Researchers have shown that by using a *thermal-imaging camera* to look at a computer keyboard, smartphone screen, or ATM keypad, it's possible to take a picture that reveals the *recent heat signature* from fingers touching the device.
- These images of keyboards, screens, or biometrics can then be analyzed by AI to correctly guess *computer passwords* in seconds.
- To protect our systems we came up with an Arduino-based cleaner that will clean and cool down the surfaces of the devices- Touchwipe.
Let us explore this further through a video!



WORKING OF TOUCHWIPE



CIRCUIT DIAGRAM



- The Arduino board is connected to a servo motor, an LED, a button, and a keypad.
- A stick with a sponge attached to it is connected with the servo motor
- The servomotor rotates 90 degrees back and forth to clean the surface of the keypad when a person ends their session by pressing the clear button .
- The LED lights up to indicate the that cleaning process is ongoing and turns off immediately when the process ends.

BRANDING



- The fluorescent red fingerprints on the keys show the threat our keyboards possess.
- The brush on top of the keyboard shows that it is removing the fingerprints.
- Our color scheme - black and green symbolizes safety, security, and growth

**BE SAFE ONLINE,
REMOVE THE THREAT OF CYBERCRIME**

- Our slogan lays emphasis on SDG 9 . We aim to create industries of innovation. We need to have a more secure and safe approach toward online password-related transactions.
- It is an effective tool for making the brand more memorable.
- It is simple and conveys the message needed.

**9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE**





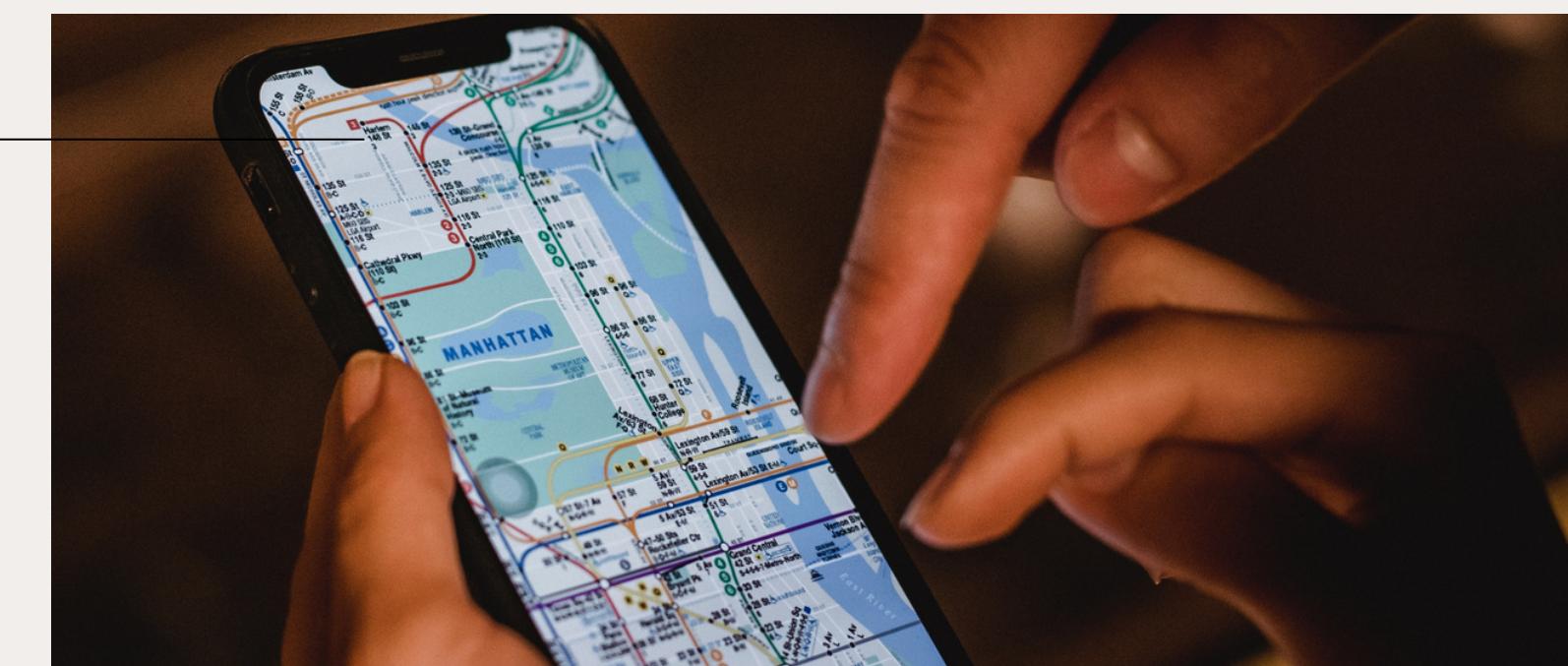
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Innovative idea with an utapped market

Preliminary verison prototype with less aesthetic appeal

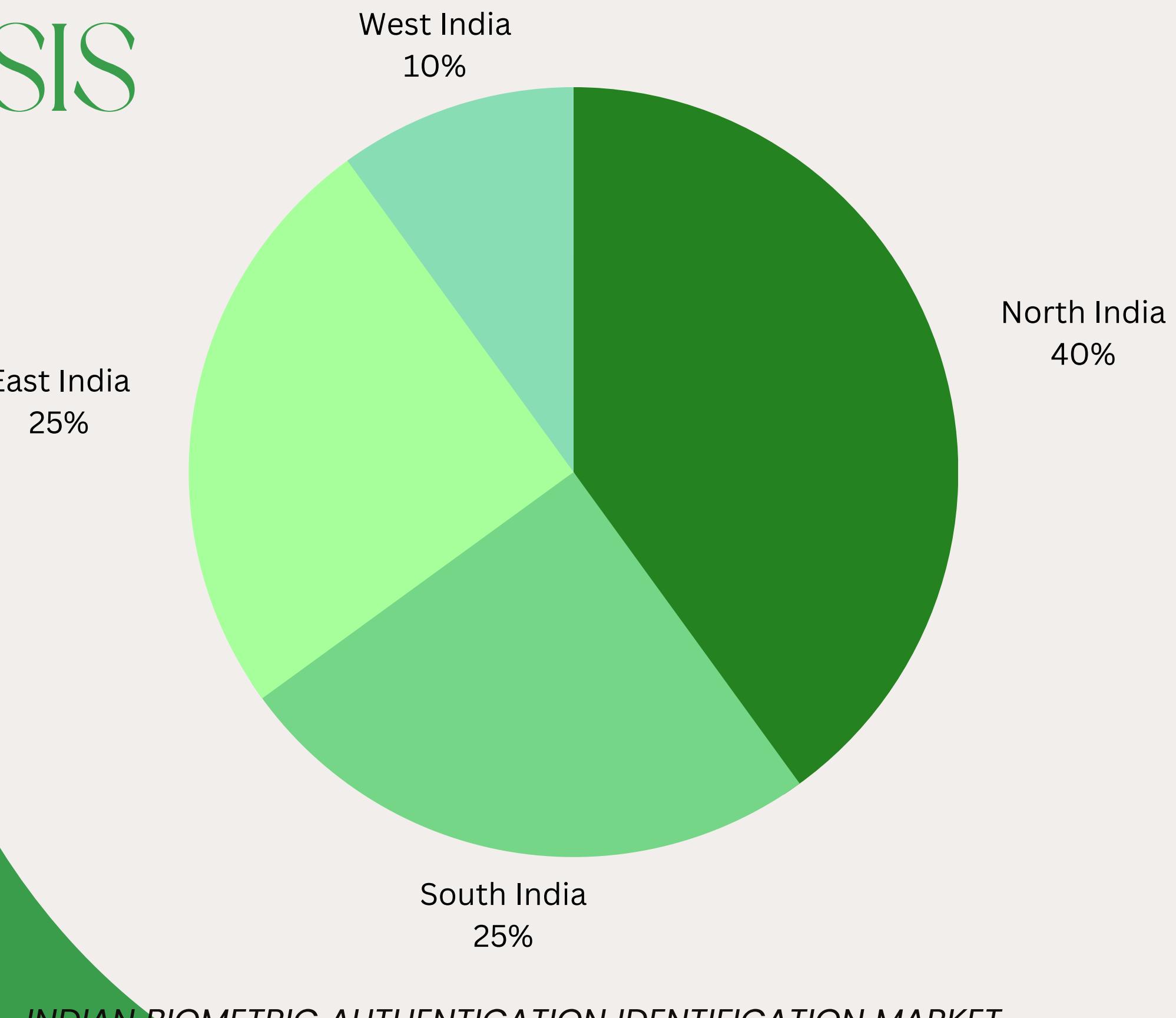
Growing concern of Cyber Security

The reluctance of people to adopt new technology



MARKET ANALYSIS AND TARGET AUDIENCE

Inclusive and supportive of 'For Everyone, Everywhere", our target audience ranges from adolescents to senior citizens in advancing metropolitan cities to the remotest parts of our country. Our vision foresees the expansion of TouchWipe across the Globe too.

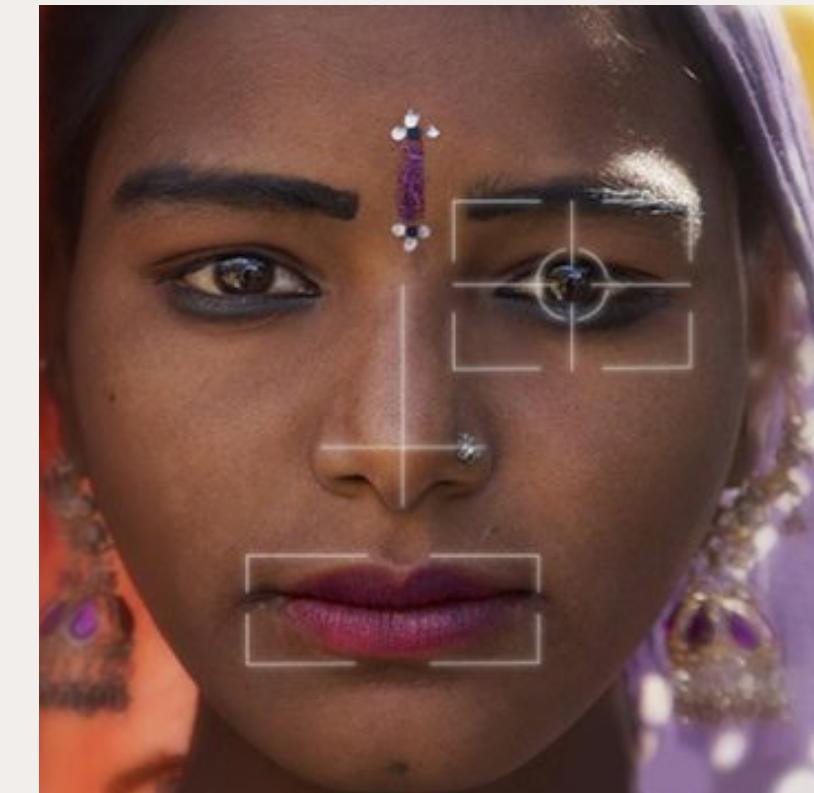
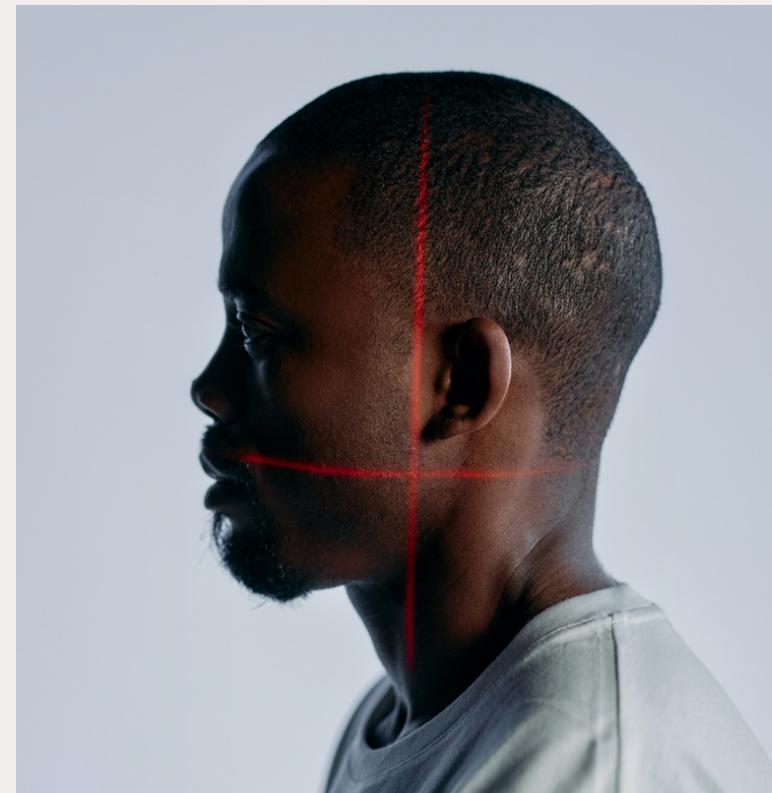


Source: <https://www.maximizemarketresearch.com/market-report/india-biometric-authentication-identification-market/52158/>

FUTURE PROSPECTS

Upholding our motto 'Safe Secure Satisfied', we aim towards expanding into the fields of other biometric related safety measures like Face Scanning, Iris Recognition, Palm Scanning, etc.

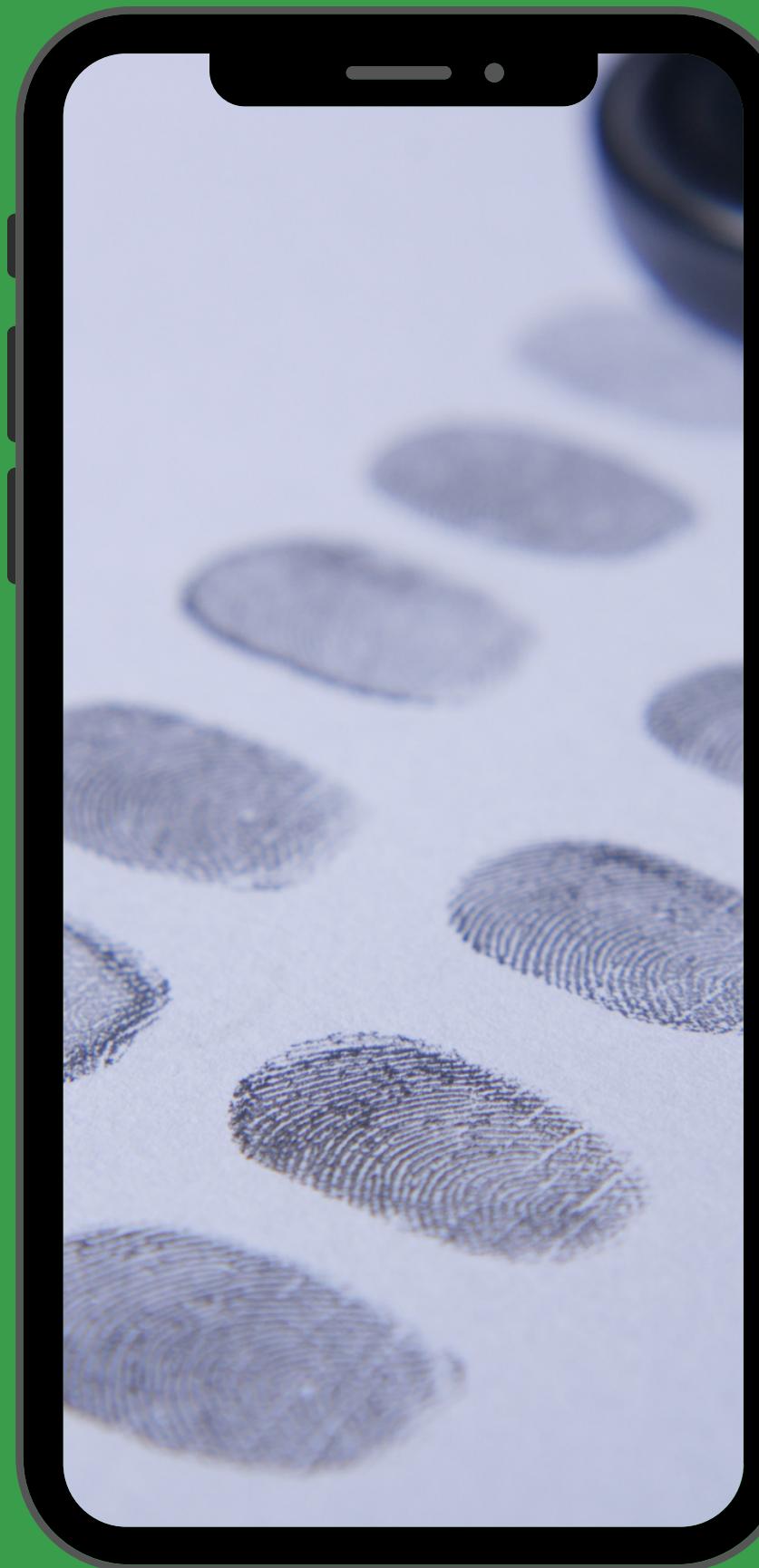
Safe Secure Satisfied



COST ANALYSIS



Arduino board & cable	500 INR
Servomotor	90 INR
Push button	10 INR
Keypad	50 INR
LED	10 INR
Adaptor	100 INR
Jumper wire	100 INR
Breadboard	40 INR
Additional	100 INR
TOTAL	1000 INR



LET'S
CONNECT
WITH US

TOUCHWIPE