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CYBER SECURITY

DURATION: 4 HOURS

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DIGITAL LITERACY

What will we learn?

- Smart phone and its usage
- Smart Phone Applications
- How to use Calculator ?
- Uses of the camera
- How to connect internet on smartphone ?
- Internet in every day life
- Mobile security

False Sense of Security?

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JEWELRY
EVEN THE BEST SECURITY SYSTEM
Only functions when it is activated
motifake.com

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Cyber Security is Safety

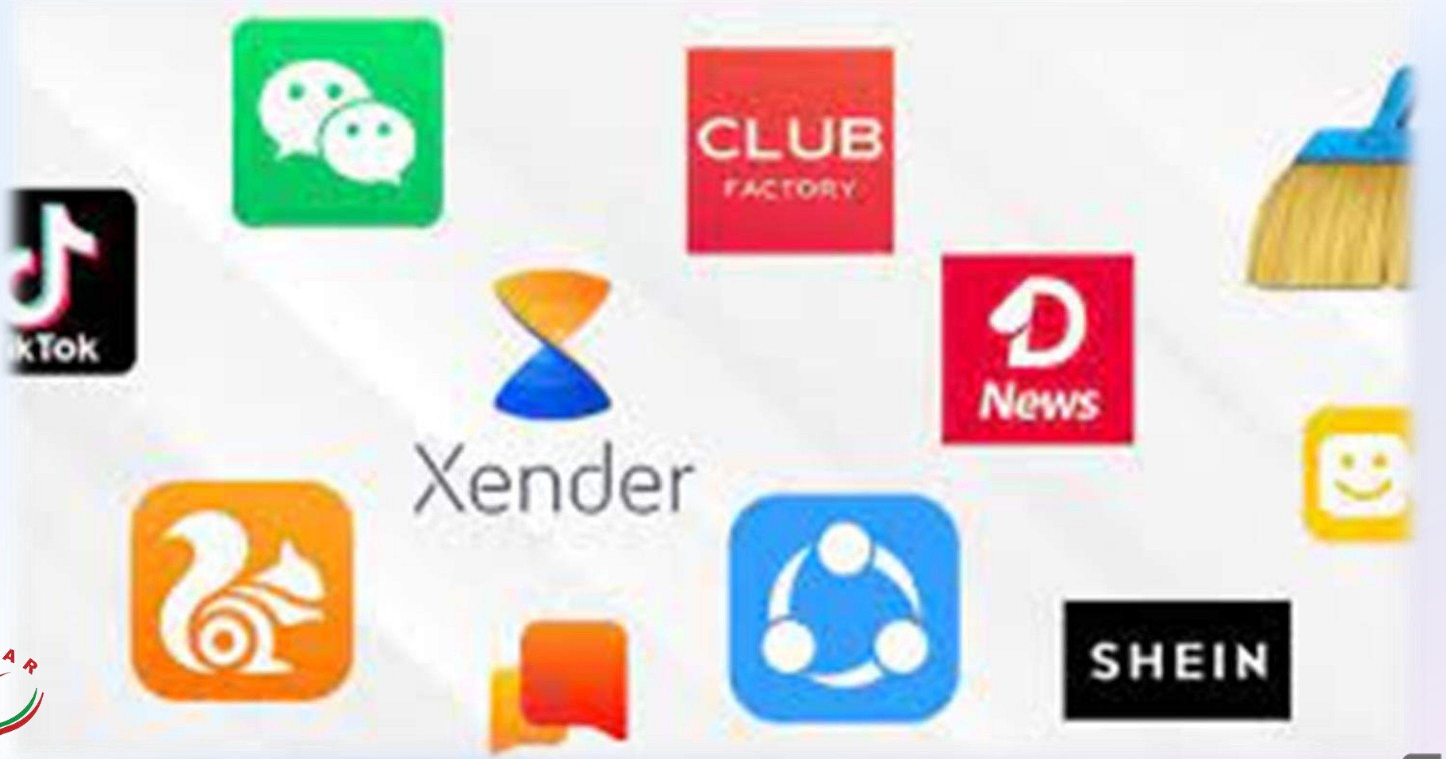
- **Security:**
- We must protect our computers and data in the same way that we secure the doors to our homes**.**
- **Safety:**
- We must behave in ways that protect us against risks and threats that come with technology.

Smart phone and its usage

- Calling and communication
- Social media
- Internet use
- Banking
- To trace the Locations
- Application Download
- Etc.,

Smart phone applications

Malware Applications



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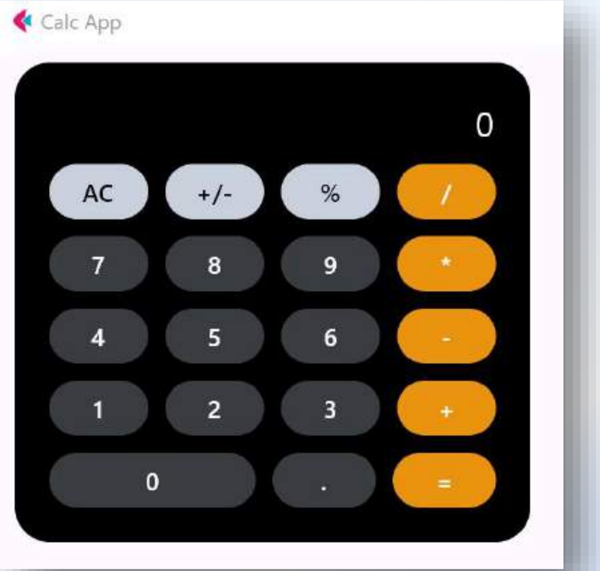
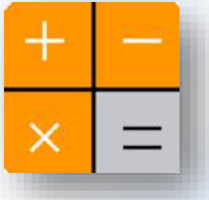
Use calculators





Calculator

Uses of the camera

A mobile camera is a piece of equipment that is used for taking photographs, making films, online payments, documentations, etc.,

The camera

How to connect internet on smartphone

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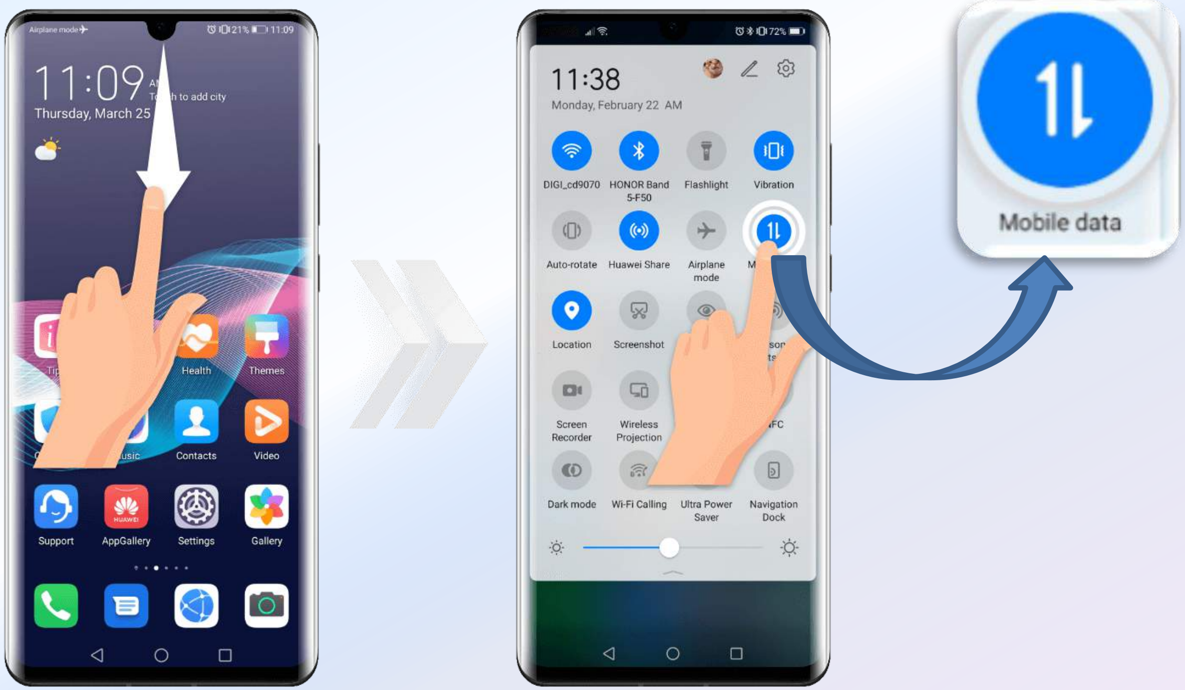

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Some apps to use internet

Where we are using Internet

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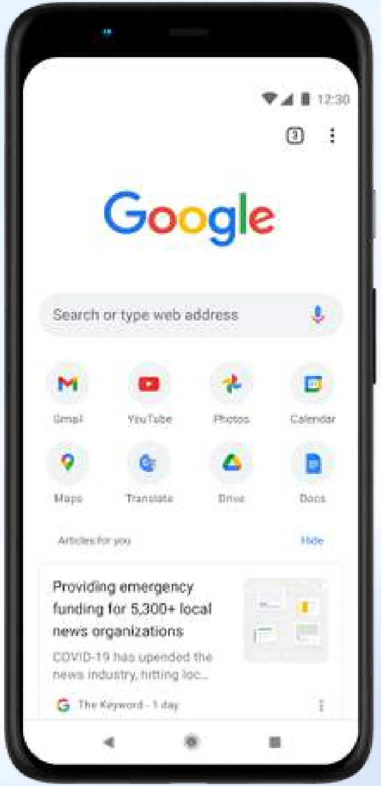

Providing emergency funding for 5,300+ local news organizations

COVID-19 has upended the news industry, hitting loc...

The Keyword · 1 day

PhonePe

G Pay

1.To do Mobile Recharge

2.Electric bill payment

3.Gas booking

4.Purchasing of materials(Amazon/Flipkart)

4. Money Transfer

5, Bus/Train/flight ticket booking

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Mobile Security

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Protection of mobile phone

from virus and hackers

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Mobile Device Security

Mobile Device Definition

- Small, hand-held Computing device
- Built in display
- Touch screen or mini-keyboard
- Less than 2 pounds

Mobile Device Examples

- iPhone/iPad
- Android Smartphones/Tablets
- Windows Smartphone
- Blackberry

Importance of Mobile Device Security

Business

- Intellectual Properties
- Financial Loss

Government

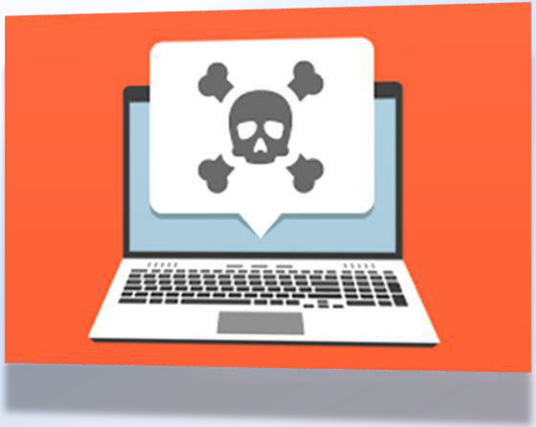
- Operational Security
- Mission Compromise

Malware

Malware = “malicious software”

Malware is any kind of unwanted software that is installed without your consent on your computer and other digital devices.

Viruses, Worms, Trojan horses, Bombs, Spyware, Adware, Ransomware are subgroups of malware.



COVID-19 Cyber Threats

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BREAKING NEWS

Fake Oximeter App to Steal Mobile Data

ISH NEWS
PULSE OXIMETER
%SpO2
PRbpm
97
84
FAKE
FAKE
FAKE

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COVID-19 Cyber Threats

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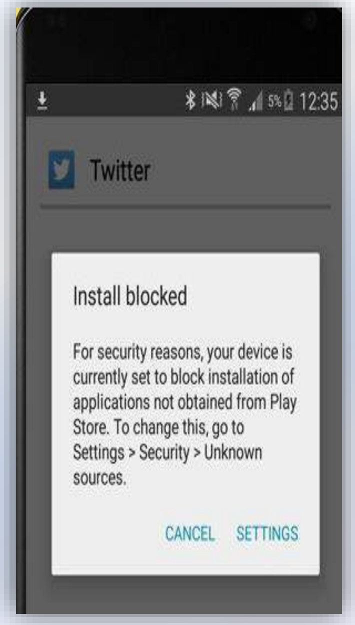
The first steps

Google Play

- Apps should always be downloaded from Play Store.
- Checks whether the app is secure or not in google play store
- if it is secure then only google will allow to keep in the play store

The second steps

- We should not install any App form unknown source
- Some times the app is not available in play store in such cases we will be downloading from browser or link .
- such app are considered as app from unknown source.

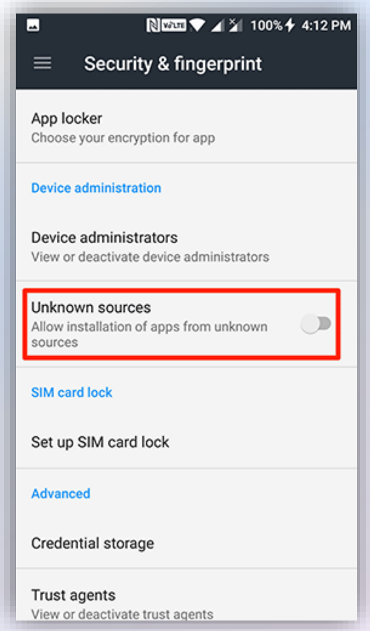


Twitter

Install blocked

For security reasons, your device is currently set to block installation of applications not obtained from Play Store. To change this, go to Settings > Security > Unknown sources.

CANCEL SETTINGS



100% 4:12 PM

Security & fingerprint

App locker
Choose your encryption for app

Device administration

Device administrators
View or deactivate device administrators

Unknown sources
Allow installation of apps from unknown sources

SIM card lock

Set up SIM card lock

Advanced

Credential storage

Trust agents
View or deactivate trust agents

Third step

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- If necessary only then we need to install the app form unknown sources
- Such types of apps uses our personal data which we would be giving as credential by using these data the hackers can use it for black mailing and theft of data .
- We have to keep in mind that our phone is reminding us all the time when we are installing the app from unknown sources.
- We will be using our phones for social media apps like Facebook, Instagram, Snapchat etc. we will be using this apps for uploading our personal data for entertainment purpose o while doing this the hackers will send link regarding the offers whenever we open these links automatically our personal data will be send to the owner of the link.

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Precaution Before Downloading

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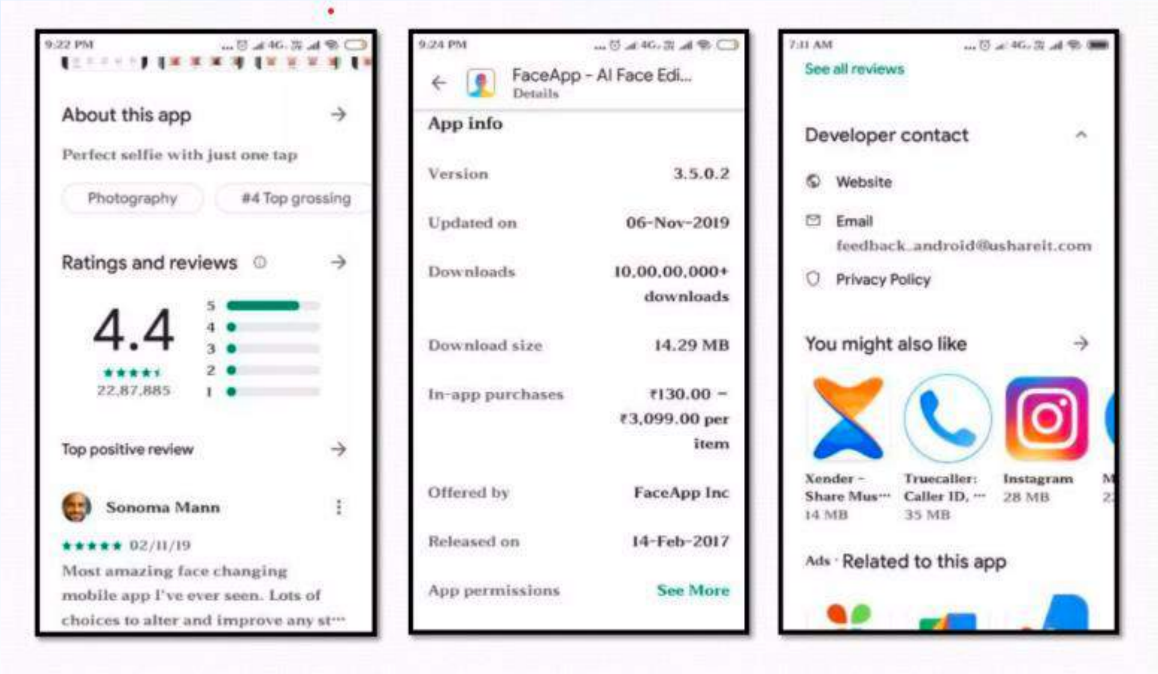

9:22 PM

About this app →

Perfect selfie with just one tap

Photography | #4 Top grossing

Ratings and reviews ⓘ →

4.4

★★★★★

22,87,885

Top positive review →

Sonoma Mann ⋮

★★★★★ 02/11/19

Most amazing face changing mobile app I've ever seen. Lots of choices to alter and improve any st···

9:24 PM

← FaceApp - AI Face Edi...
Details

App info

Version	3.5.0.2
Updated on	06-Nov-2019
Downloads	10,00,00,000+ downloads
Download size	14.29 MB
In-app purchases	₹130.00 – ₹3,099.00 per item
Offered by	FaceApp Inc
Released on	14-Feb-2017
App permissions	See More

7:11 AM

See all reviews

Developer contact ^

Website

Email
feedback.android@ushareit.com

Privacy Policy

You might also like →

Xender - Share Mus··· 14 MB

Truecaller: Caller ID, ··· 35 MB

Instagram 28 MB

M 2

Ads · Related to this app

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Use these things when required

Mobile Data

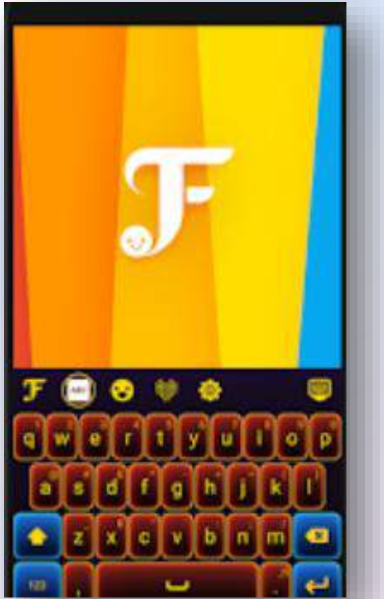
Bluetooth

Wi-Fi

GPS

Mobile Security Threats

- Data Leakage
- Network Spoofing(Unsecured WI FI)
- Social engineering
- Malicious Apps
- Improper Session Handling



Data Leakage

- These are typically free apps found in official app stores that perform as advertised, but also send personal and potentially corporate data to a remote server, where it is mined by advertisers or even cybercriminals.

- Apps pose a real problem for mobile users, who give them sweeping permissions, but don’t always check security.

Allow App Permission

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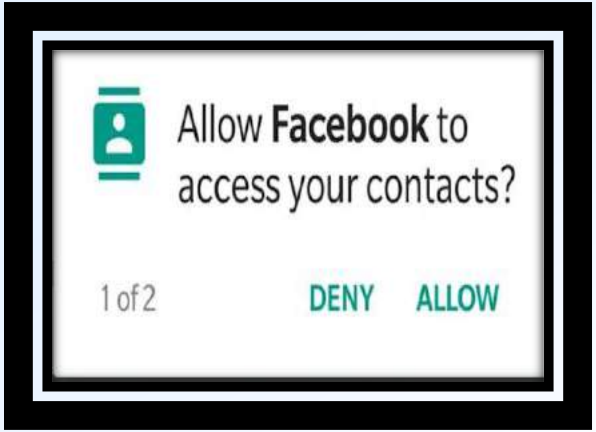
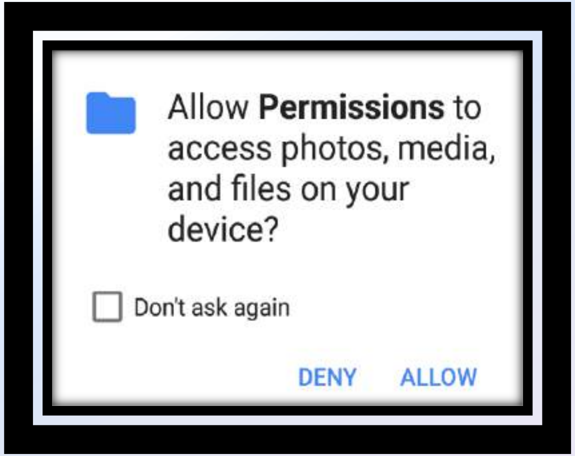
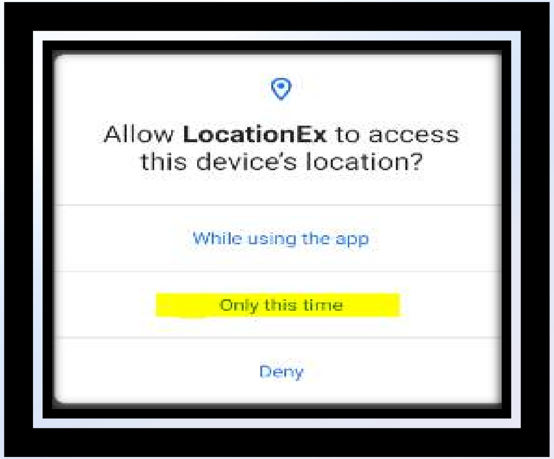


Allow **Facebook** to access your contacts?



Allow **Permissions** to access photos, media, and files on your device?

□ Don't ask again



Allow **LocationEx** to access this device's location?

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Allow App Permission & Access

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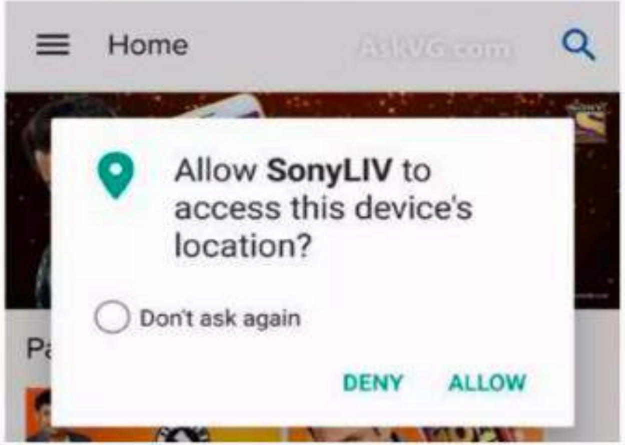
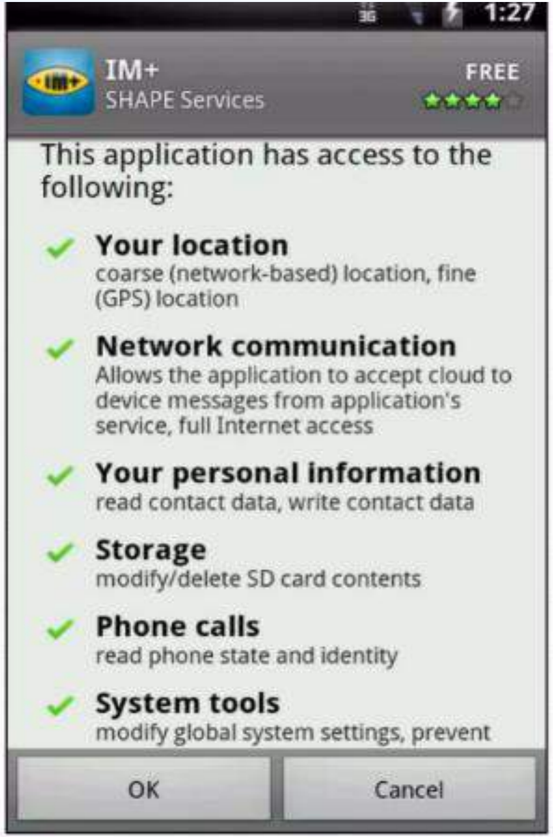


Allow **SonyLIV** to access this device's location?

○ Don't ask again



This application has access to the following:

- ✓ **Your location**
  coarse (network-based) location, fine (GPS) location
- ✓ **Network communication**
  Allows the application to accept cloud to device messages from application's service, full Internet access
- ✓ **Your personal information**
  read contact data, write contact data
- ✓ **Storage**
  modify/delete SD card contents
- ✓ **Phone calls**
  read phone state and identity
- ✓ **System tools**
  modify global system settings, prevent

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Contact and Location Permission

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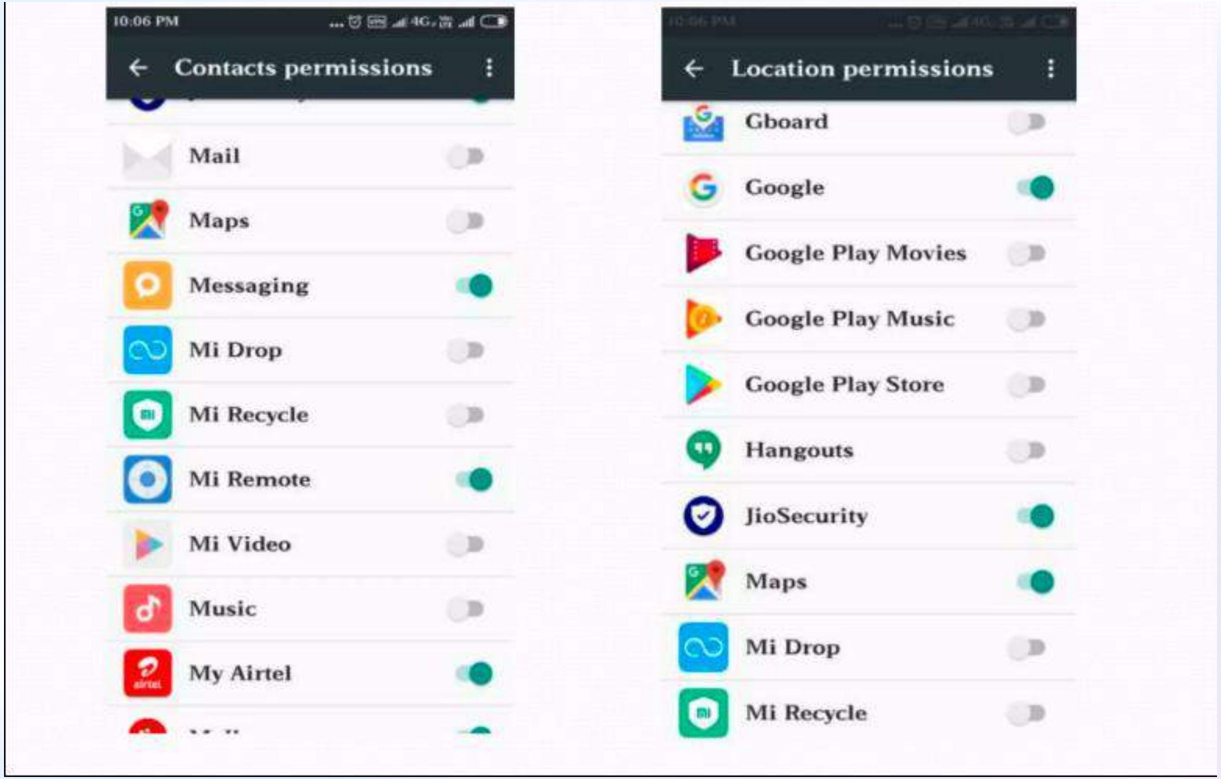

10:06 PM

← Contacts permissions ⋮

Mail ○
Maps ○
Messaging ●
Mi Drop ○
Mi Recycle ○
Mi Remote ●
Mi Video ○
Music ○
My Airtel ●

← Location permissions ⋮

Gboard ○
Google ●
Google Play Movies ○
Google Play Music ○
Google Play Store ○
Hangouts ○
JioSecurity ●
Maps ●
Mi Drop ○
Mi Recycle ○

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Unwanted Links

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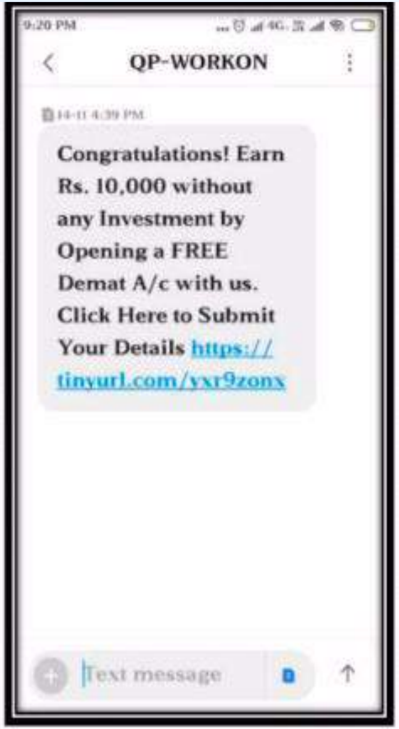
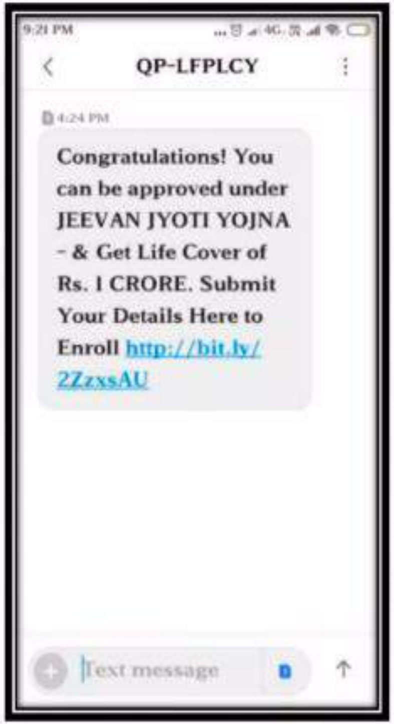


Congratulations! Earn Rs. 10,000 without any Investment by Opening a FREE Demat A/c with us. Click Here to Submit Your Details https://tinyurl.com/yxr9zonx



Congratulations! You can be approved under JEEVAN JYOTI YOJNA - & Get Life Cover of Rs. 1 CRORE. Submit Your Details Here to Enroll http://bit.ly/2ZzxsAU

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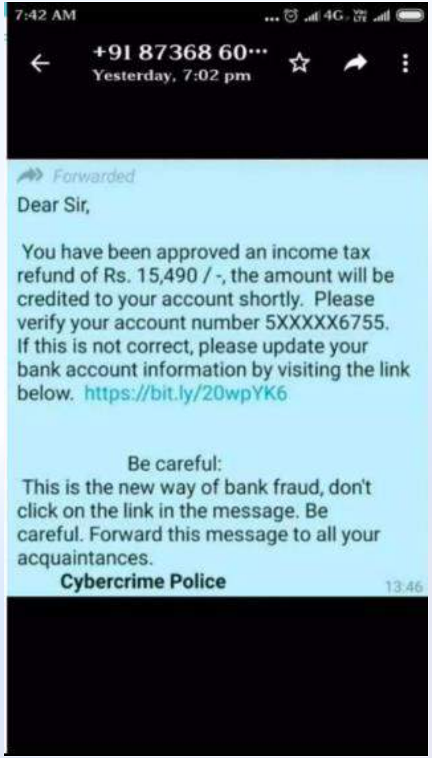
Unwanted Messages



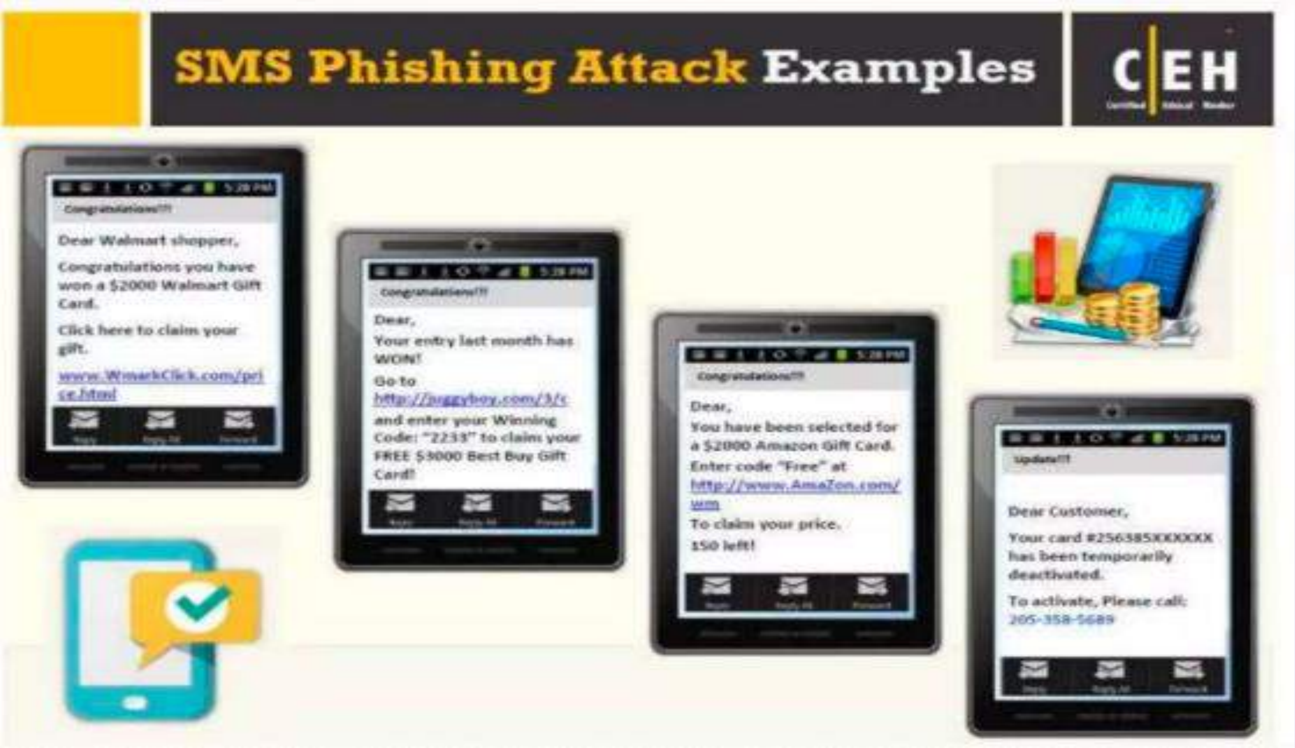
Dear Sir,

You have been approved an income tax refund of Rs. 15,490 / -, the amount will be credited to your account shortly. Please verify your account number 5XXXXX6755. If this is not correct, please update your bank account information by visiting the link below. https://bit.ly/20wpYK6

Be careful:
This is the new way of bank fraud, don't click on the link in the message. Be careful. Forward this message to all your acquaintances.
Cybercrime Police

13:46

Unauthorized Links



SMS Phishing Attack Examples

Congratulations!!!

Dear Walmart shopper,

Congratulations you have won a $2000 Walmart Gift Card.

Click here to claim your gift.

www.WmarkClick.com/price.html

Congratulations!!!

Dear,

Your entry last month has WON!

Go to http://juggyboy.com/3/c and enter your Winning Code: "2233" to claim your FREE $3000 Best Buy Gift Card!

Congratulations!!!

Dear,

You have been selected for a $2000 Amazon Gift Card.

Enter code "Free" at http://www.AmaZon.com/wm

To claim your price.

150 left!

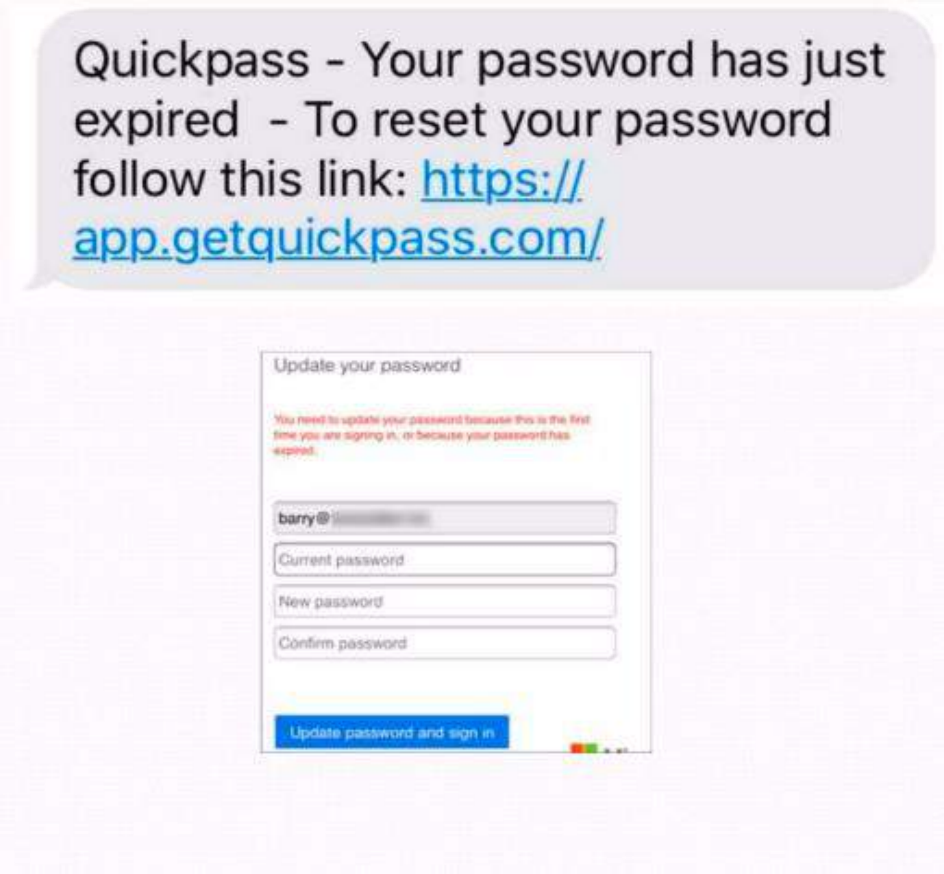
Update!!!

Dear Customer,

Your card #256385XXXXXX has been temporarily deactivated.

To activate, Please call: 205-358-5689

Unauthorized Links



Quickpass - Your password has just expired - To reset your password follow this link: https://app.getquickpass.com/

Update your password

You need to update your password because this is the first time you are signing in, or because your password has expired.

barry@[redacted]

Current password

New password

Confirm password

Update password and sign in

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Unauthorized web links

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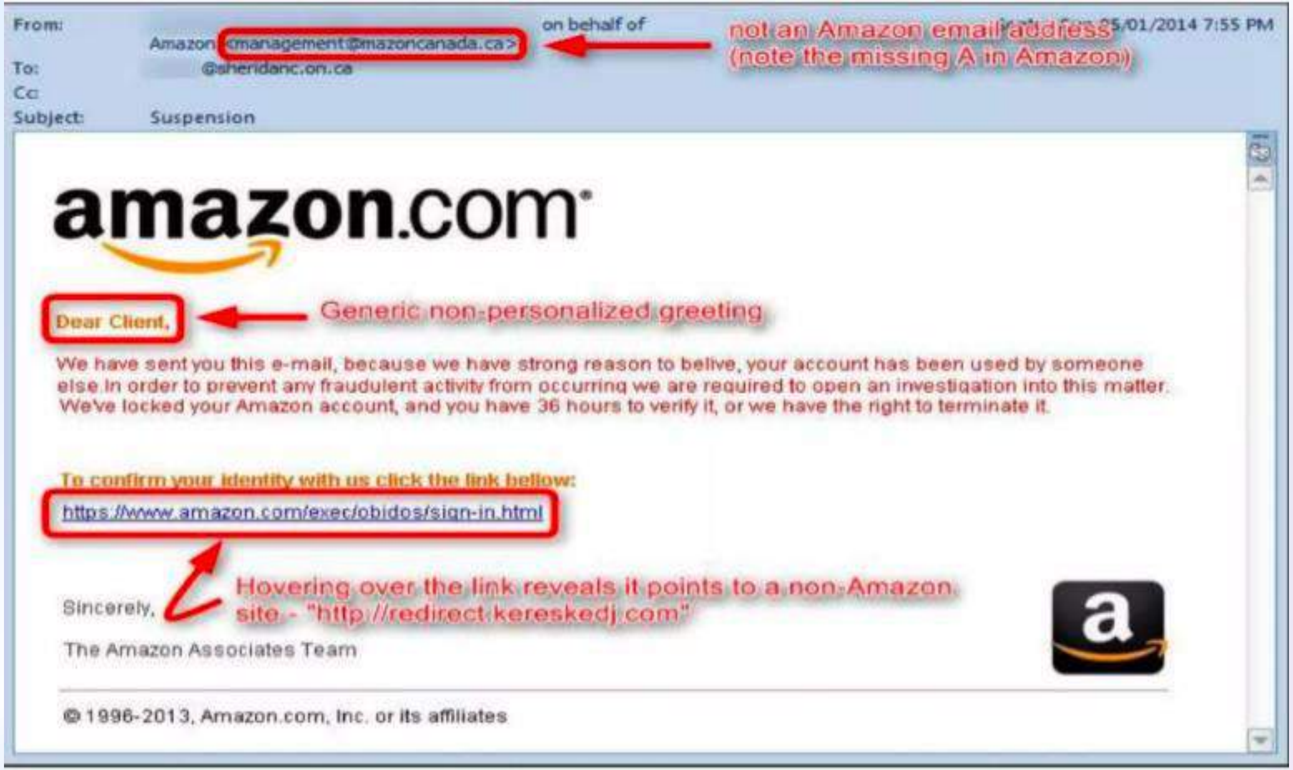

From: on behalf of Amazon <management@mazoncanada.ca> 05/01/2014 7:55 PM

To: @sheridanc.on.ca

Cc:

Subject: Suspension

not an Amazon email address (note the missing A in Amazon)

amazon.com

Dear Client,

Generic non-personalized greeting

We have sent you this e-mail, because we have strong reason to belive, your account has been used by someone else.In order to prevent any fraudulent activity from occurring we are required to open an investigation into this matter. We've locked your Amazon account, and you have 36 hours to verify it, or we have the right to terminate it.

To confirm your identity with us click the link bellow:

https://www.amazon.com/exec/obidos/sign-in.html

Hovering over the link reveals it points to a non-Amazon site - "http://redirect.kereskedj.com"

Sincerely,

The Amazon Associates Team

© 1996-2013, Amazon.com, Inc. or its affiliates

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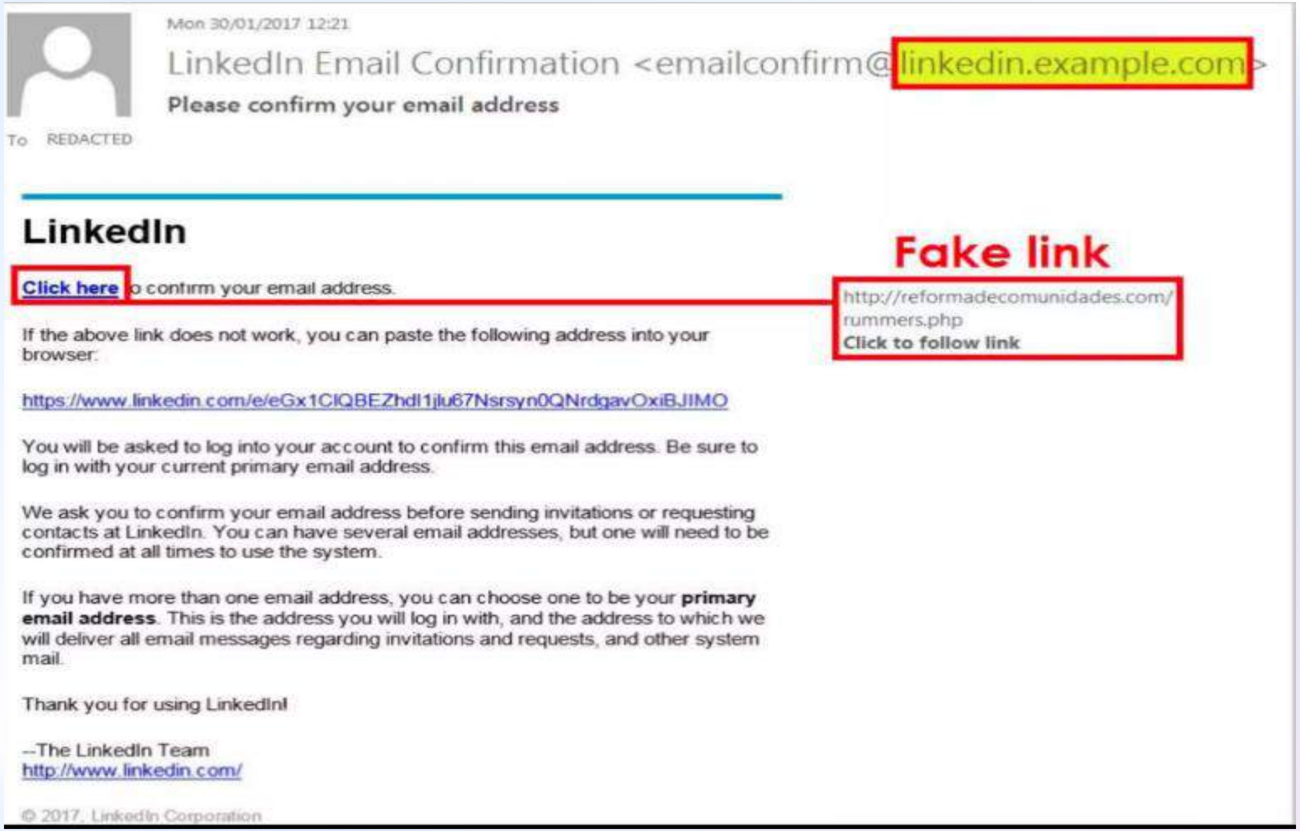
Unauthorized web links



Mon 30/01/2017 12:21

LinkedIn Email Confirmation <emailconfirm@linkedin.example.com>

Please confirm your email address

To REDACTED

LinkedIn

Click here to confirm your email address.

If the above link does not work, you can paste the following address into your browser:

https://www.linkedin.com/e/eGx1CIQBEZhdl1jlu67Nsrsyn0QNrdgavOxiBJIMO

You will be asked to log into your account to confirm this email address. Be sure to log in with your current primary email address.

We ask you to confirm your email address before sending invitations or requesting contacts at LinkedIn. You can have several email addresses, but one will need to be confirmed at all times to use the system.

If you have more than one email address, you can choose one to be your **primary email address**. This is the address you will log in with, and the address to which we will deliver all email messages regarding invitations and requests, and other system mail.

Thank you for using LinkedIn!

--The LinkedIn Team
http://www.linkedin.com/

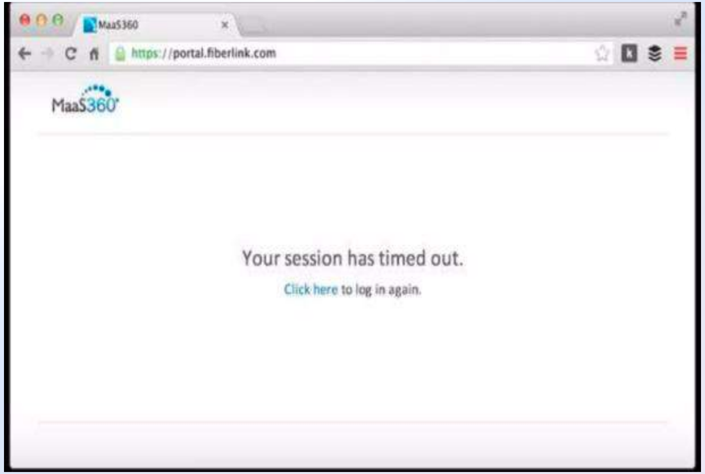
© 2017, LinkedIn Corporation

Fake link

http://reformadecomunidades.com/rummers.php
Click to follow link

Improper Session Handling

- Improper session hanling occurs when the session token is unintentionally shared with the adversary during a subsequent transaction between the mobile app and the backend servers



Your session has timed out.

Click here to log in again.

Improper Session Handling

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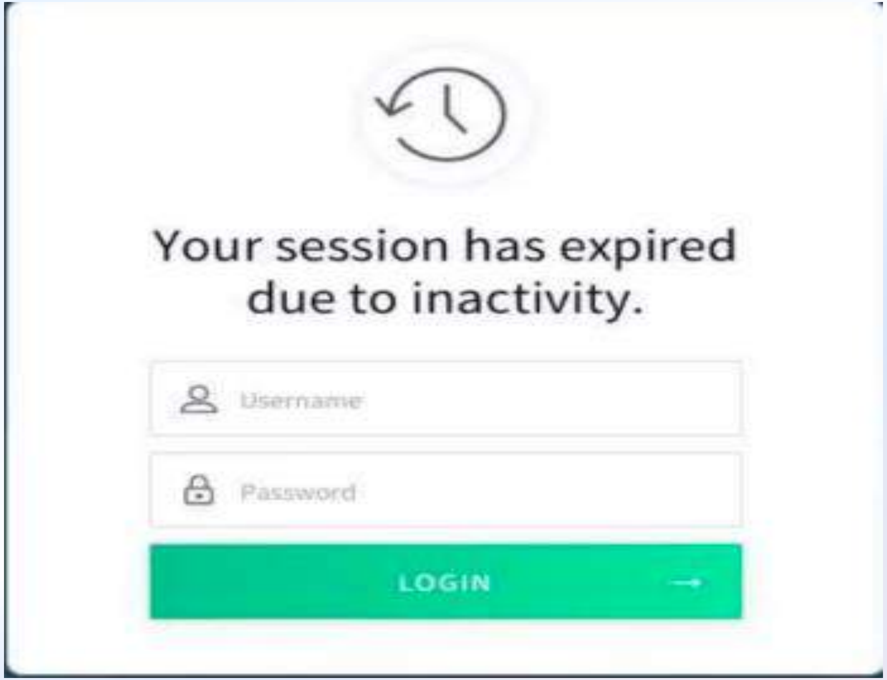

Your session has expired due to inactivity.

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What we have learnt ?

- Smart phone and its usage
- Smart Phone Applications
- How to use Calculator ?
- Uses of the camera
- How to connect internet on smartphone ?
- Internet in every day life
- Mobile security

How We Protect Information?

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People

- Training, Education, Awareness, Monitoring

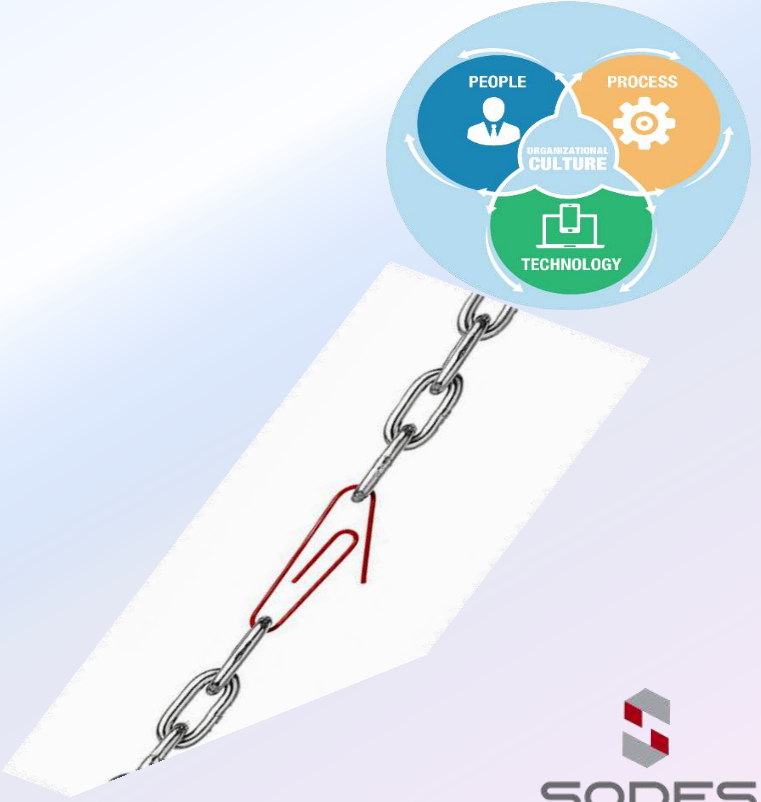
Process

- Governance, Oversight, Policy, Reporting

Technology

- A nti-malware
- Strong passwords, Logging/monitoring

Which is the weakest link?



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