





Information Security Education & Awareness

CYBER SAFE GIRL Beti ko Bachao, Cyber Crime Se

15 eye-opening sketches
to ensure online safety of girls

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FOREWORD

Cyber Crime is a global phenomenon which hampers the privacy and security of a person online. Women are often the soft targets. There are people who are on the lookout for personal information, like passwords, bank details, etc. Apart from that women are often harassed, stalked and threatened in the virtual world.

Your Facebook/Twitter status and photos say a lot about you. A determined person may already have found out that you're a woman, details about where you live and whether you are currently alone. With that post, the bad guy could set you up for a robbery or even a physical attack.

I congratulate Dr. Ananth Prabhu G and Vivek Shetty for coming out with this wonderful booklet depicting 15 real time scenarios. Also, the safety measures to be taken for online safety would keep you protected from various crimes, helping you to build your protective cocoon online. After all, awareness is the key and everyone must engage in responsible internet surfing.

Remember, that prevention is better than cure. Be ready to fight this war against cyber crime. STAY SAFE ONLINE!

With respectful regards,

Hanumantharaya IPS DCP L & 0 Mangalore City Police

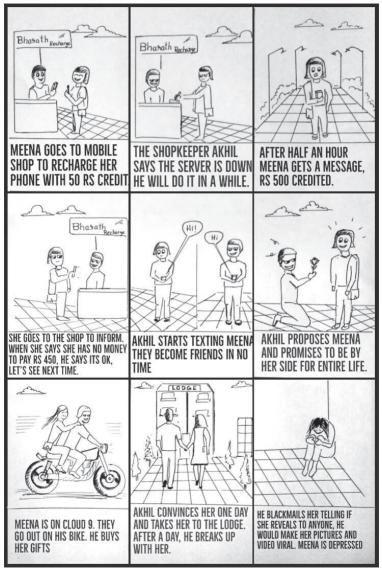
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MOBILE RECHARGE SHOP

A Mobile Recharge Shop is a place where scamsters can gain access to your cellphone number because you have provided it to the recharge vendor. This number is then misused to call or text you and exploit your ignorance or even emotionally manipulate you.

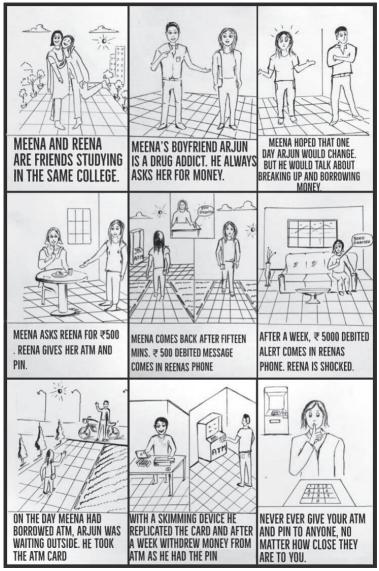
MOBILE RECHARGE SHOP



DEBIT CARD CLONING

Debit Card skimming happens when the PIN is revealed to another person. A scamster who knows the PIN and has possession of the card even for a short while can replicate the card with a skimming /schimming device and withdraw cash.

DEBIT CARD CLONING



KEYLOGGER

It is a malicious program that may be installed in the victim's computer for recording computer user keystrokes to steal passwords and other sensitive information. With Keylogger a scamster will be able to collect login details and other matter saved in the computer and have them mailed to a designated email address.

KEYLOGGER

ANUSHA AND POOJA ARE BEST FRIENDS AND SHARE THE SAME ROOM IN THEIR PG. THEY WORK FOR THE SAME MNC	INCIDENTLY, BOTH OF THEM END UP HAVING A BIG TIME CRUSH ON THEIR BOSS VIVEK	WITHOUT WASTING ANY TIME, PODJA PROPOSES VIVEK AND HE ACCEPTS. THEY START DATING EACH OTHER.
ANUSHA IS HEART BROKEN. She wants to teach pooja A lesson that she would Remember for life.	ONE DAY, ANUSHA LOGS ON TO PODJA'S Laptop and installs keylogger Program, a spyware which would Record and Mail a copy of all The activities.	POOJA IS UNAWARE THAT HER Passwords, photos shared, private chats, emails and browsing history is now available to anusha.
	A Contraction	
ANUSHA EMAILS THE PRIVATE Convo to pooja's parents and uploads their private photos on social media via fake profile.	VIVEK IS SHOCKED. They break up and Pooja IS now all Shattered.	POOJA REGRETS FOR NOT LOCKING HER PC WITH A PASSWORD AND Installing an Anti Virus Program Which Would Have Protected Her.

SMS SPOOFING

Shopping Online has to be done keeping guidelines in mind, or else one can become a victim of phishing from fake websites and message spoofing from unscrupulous elements.

SMS SPOOFING



CALL SPOOFING

Call spoofing happens through apps that enable a person with criminal intent to change one's number and voice to impersonate another to defraud the receiver.

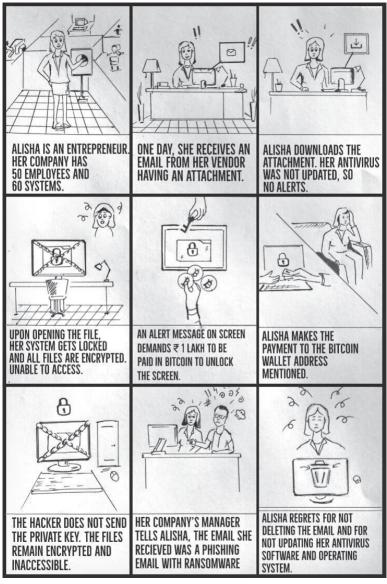
CALL SPOOFING



RANSOMWARE

Ransomware is a type of malicious software that threatens to publish the victim's data or perpetually block access to it unless a ransom is paid. It gains access to data through being downloaded as an attachment in a mail.

RANSOMWARE



CYBER STALKING

Cyberstalking is the use of the Internet or other electronic means to stalk or harass another by misusing information uploaded on social networking sites.

CYBER STALKING



PICTURE MORPHING

Morphing the face of a person to the body of another and publishing it to blackmail or otherwise intimidate the person is one of the ways by which people who upload photos on social networking sites can be exploited.

PICTURE MORPHING



#CyberSafeGirl

PROFILE HACKING

Profile Hacking happens when your email or social networking site is accessed by a probable stalker who then compromises it.

PROFILE HACKING

TANUJA LOVES GOING TO THE CYBER TO SURF THE WEB.	ONE DAY, SHE WAS BROWSING THROUGH FB AND THE GMAIL WAS OPEN IN THE OTHER WINDOW	SHE GETS SOS CALL FROM HOME THAT HER GRANDFATHER IS ADMITTED IN KCM HOSPITAL
TANUJA RUSHES TO THE HOSPITAL	UPON REACHING THE HOSPITAL	TANULA REALIZES SHE HAD NOT
AFTER ALL, SHE LOVED HER Grandpa Very Much.	TANUJA GETS TWO ALERTS on her phone. Gmail and FB password is reset.	LOGGED OUT OF THE SYSTEM. Thus her accounts got compromised.
VI CON	A A	
REMEMBER TO ALWAYS LOG Out while using public computers.	USE VIRTUAL KEYBOARD While Entering Passwords And other Sensitive Information	AVOID FREE WIFI AT RESTAURANTS, Airports, public places etc. USE VPN Whenever Necessary.

ONLINE GAMES

Girls who are vulnerable to loneliness, low selfesteem and clinical depression can fall prey to dangerous online games that may become addictive and further harm them. Some like the notorious blue whale challenge even end in the victim ending her life. This is a personal as well as social challenge for the others around.

ONLINE GAMES

DEVIKA IS A FIRST YEAR ENGINEERING STUDENT, HAILING FROM A REMOTE VILLAGE IN KARNATAKA.	HER CLASSMATES USED TO IGNORE HER BECAUSE SHE WAS TOO SIMPLE TO GEL INSIDE A GROUP OF GIRLS. SHE HAD NO ONLINE FRIENDS EITHER.	BECAUSE OF LONELINESS, SHE ENDED UP CLICKING A LINK THAT SHE RECIEVED IN HER EMAIL, WHICH READ- THE BLUE WHALE GAME. ARE YOU READY?
	e e e e e e e e e e e e e e e e e e e	
DEVIKA WAS EXCITED TO PLAY This game. It had fifty levels. Each level had a task to be Executed.	AFTER COMPLETING EACH TASK, SHE Got appreciation from the admin. This made her feel good, as more and more dopamine was released inside her. She got addicted.	DANGEROUS TASKS LIKE TATTOOING Whale on her body with knife, Walking on edge of the terrace, Midnight graveyard walks were Few of the tasks she completed.
	TASK	
HER CLASSMATES SAW A LOT OF Changes in her. So did her Teachers. But no one bothered To ask her. She had by now Surrendered to her admin.	THE FINAL TASK WAS TO HANG Herself and commit suicide at 1 Am. Without any regret or Fear, devika wrote a sorry letter To her parents and hanged Herself. One precious life lost.	THE LETTER READ, I WISH PEOPLE Cared for Me, Loved Me and Included Me in Their Circles. I Was totally ignored and Secluded. What is the point In Living?

JOB CALL LETTER

Websites offering jobs need to be checked for veracity and authenticity. Mails need to be doublechecked and verified before one responds and acts on instructions provided, especially if one is asked to put in a personal appearance.

JOB CALL LETTER



DEEPFAKES

Deepfake is a technique that is used to combine and superimpose new images and videos onto source images or videos. It is used to create videos where the voice or face of another is superimposed on the original in such a way that the viewer or listener cannot distinguish or doubt the veracity of it.

DEEPFAKES



DATING WEBSITE

Females can be emotionally manipulated by smooth talkers on dating sites. Any private pictures or texts that they send across to probable dating companions on such sites are fair game for unscrupulous persons who can then blackmail them.

DATING WEBSITE



CAMERA HACKING

Camera hacking happens when photographs of a person are taken without consent, through malware that got downloaded with an attachment. Phones with no camera guard can be exploited for such criminal activities.

CAMERA HACKING

MANISHA IS THE MOST COOLEST GIRL IN HER COLLEGE	SHE USED HER PHONE TO CHECK MAILS, MANAGE SOCIAL MEDIA ACCOUNTS AND TRANSFER MONEY.	SHE USED TO CARRY HER PHONE TO THE WASHROOM ALL THE TIME.
SHE HAD NO IDEA ABOUT A File downloaded by her on messenger once, which was a trojan with malware.	THE MALWARE SWITCHED ON FRONT AND BACK CAMERAS OF HER PHONE Without Her Consent, discreetly Capturing Videos.	UNAWARE ABOUT THE MALWARE, Manisha Kept her Phone Aside in the Bathroom and Had Shower.
A CARLON OF A C	e le	
ONE DAY, HER FRIEND JOEL Tells her that, he came Across her shower video on a porn website.	MANISHA IS SHATTERED. HER Phone did not have an Antivirus installed, which Protects the phone.	SHE ALSO REGRETTED FOR Not putting a mobile flip Case and camera cover.

SOCIAL TROLLING

Social Trolling is posting inflammatory messages or visuals about a person or organisation in an online community with the express purpose of causing humiliation or nuisance to the object of trolling.

SOCIAL TROLLING



BONUS TIPS

Women and Cyber Crimes

1. Social Engineering: It is easy to hack into the mind of a person using a communication device or a computer system rather than hacking into the communication device or computer system that he or she is using.

Since we are wired to talk and give out information even to strangers, we fall pray to this modus operandi adopted by criminals. We get calls from Banks for cards and loans, Insurance Companies, Holiday Home providers, IT department, RBI, online market places etc but do we really check the credentials of the caller? We trust thecaller and give out information that goes into our profiling for which the very call was made to us!

Preventions: It is said 'Speak Less than you Know and Have more than you Show'. Thus 'Tell Less about you and Know More about a few.'

2. Revenge Porn: Pictures and photos clicked in good times with your friends and acquaintances inadvertently may come to haunt you in future when the relationships get sour or when there is a family feud.

Preventions: Click less pictures with friends and acquaintances and follow the rule of 'Beware'.

3. Voyeurism: Privacy breach is biggest concern with advent of pin hole cameras and latest spy cams that can be hidden and are not easily detectable. Could be hidden in shopping malls, changing rooms, washrooms, hospitals and diagnostic centers, and also in offices and washrooms located in private offices.

Preventions: Though no concrete solution for this crime, but a random check on suspicious objects like window blinders, curtain and curtain rods, flower pots, murals, photo frames, bulbs, night lamps, drawers and any hanging objects on the walls may be carried out.

4. Cyber Stalking: Stranger following you on various social media platforms, chatrooms, messengers etc and causing you to fear and raise an alarm against them.

Preventions: Avoid interacting with strangers. Do not agree with them but do not be rude with them because some cases observed revealed that the stalking was done due to ego clashes.

5. Cyber Bullying: Sending tormenting post, harassing messages, threatening contents to a minor to cause mental harassment and depressive or suicidal state of mind to the recipient of such messages.

Preventions: Share those messages and posts with your Parents or teachers who are matured enough to understand the gravity of the matter and act accordingly. Do not keep on facing or enduring these troubles.

6. Photo editing Apps: These apps that you use to beautify yourself are also known to retain your original copy of the photo you have uploaded and even the copy of the edited version is saved on their servers. You can only wonder what next would they do with the copy of your photos!

Preventions: Use reputed apps that you should be downloading from secured App stores. The fake photo editors may cause you harm and edit your lifestyle if used by them with criminal intent.

7. Free Downloads: With every free downloads of music, videos, games, file sharing sites, software's, apps, e-books etc please also be ready to receive computer contaminates by way of worms, virus, trojans, malwares,

spywares, key loggers etc for FREE. Your communication device or your computer systems gets Freely compromised due to your Free downloads.

Preventions: Verify the Apps, Tools, Websites, Portals, Online Market Place, File sharing sites, Gaming sites from which you are downloading stuffs by carrying out reasonable searches using prudence.

8. 'I accept', 'I agree': It is easy to accept the terms and conditions before downloading that app or software or game or e-book or music or video that you want it on your digital devices. But before that, understand at what cost are you giving permissions!

Preventions: 'Look before you Leap' and so 'Read before you Tread' just before hitting on the 'I accept' or 'I agree' tab.

9. Password/Passphrase: Password may be a single word but a combination of more words would be a Passphrase. A Passphrase is more secured than a Password. Since you are being asked to create the Passwords, use all that is available on a keyboard to create one. Change it often. Use different passwords for different accounts.

Preventions: Passwords having a dictionary meaning are easy to crack. You are the creator of your own destiny thus create a complex password that is also easy to remember thereby safeguarding your online destiny. Never Share it with anyone Ever.

10. Webcams may reveal privacy: Cases have been reported wherein a trojan (which gives privileges and remote access to the implanter) was activated without the knowledge of the owner of a laptop and his/her pictures and moments of privacy were clicked and uploaded online on porn sites.

Preventions: Use a masking tape on the camera of the web cam on your laptops/desktops. As for your mobile phones, keep a piece of cloth or a Beti Ko Bachao, Cyber Crime Se 33 handkerchief or a newspaper because they have cameras on both the sides.

11. Social Media Platforms: Do you meet and entertain a stranger in your real life? Why interact and entertain them in the virtual world too? Cheats, fraudsters, cyber criminals are waiting for you to accept their friends request. Investigations have also revealed that most of the time a request coming from a young female turns out to be a male. Anonymity is a biggest boon for cyber criminals. Also keep a tab on what you share and with whom you share with on these platforms.

Preventions: Care before you Share. Remember that Offline destiny is created by Daring but Online destiny is created by Sharing. Your Offline and Online values should match. Also remember 'Rock with your Friends but Block the ones who Offends'.

12. Use licenced operating systems: use a licenced version on your devices and not cracked versions. They enable great amount of security which is the outcome of strong research and development that is adhered to by these providers. Update the operating system with latest patches and versions.

13. Use licenced Antivirus: Just as there are Antibiotics for curing diseases in a human body, so we have Antiviruses for curing diseases in digital devices. Update the antivirus by downloading patches. Just as 'Catches wins Matches' so also 'Patches wins Glitches' (in your digital devices).

14. 'The Time is Ticking' but it shall Tick faster with disaster by wrong 'Clicking': so click less pictures and videos, click less on unknown links, click less on executable files, click less on free downloads, click less on personal details (while sharing), click less on apps that you do not

intend to use, click less on suspicious sites or unknown sites, click less on posts that offers you huge discounts, click less on images, messages and posts that are not useful to you. Ideally you should be averse on Clicking on all above.

15. Report: a cybercrime of any nature and gravity should be reported at the police station or Cyber Cell. It is always advisable to place it on records with the authorities concerned. This will not only help the police to investigate the crime that you have faced but will also help them to understand and analyse the modus operandi of the criminals and take corrective actions for preventions and detections.

Article by:

Advocate Prashant Jhala is a Cyber Lawyer from Mumbai. He is Co-Founder of Indian Cyber Institute (indiancyberinstitute.com) which runs educational and training programs in the field of Cyber Crime Investigation, Computer Forensics, Ethical hacking and Information Security, Cyber Law etc. He has been instrumental in training the law enforcement agencies across the country. He is a regular speaker and trainer at various banking forums and workshops/events/seminars organised by Information and Technology stake holders.

F FS S DEEPFAKES S F ING P

Don't be a victim of cyber crime. Be a #CyberSafeGirl

Beti Ko Bachao... Cyber Crime Se...

Be a #CyberSafeGirl