

Hacking

AS A FIELD

```
import sys
import io, base64

class AdmissionExtensionOnlineController(http.Controller):
    @http.route('/get/type_wise_program', website=True, auth='none',
    def type_wise_program(self, **kwargs):
        if len(kwargs['types']) <= 0:
            return "None"

        types = kwargs['types']
        program_list = []
        domain = []

        if types == 'local_bachelor_program_hsc':
            domain = [('course_id.is_local_bachelor_program_hsc', '=')]
        elif types == 'local_bachelor_program_a_level':
            domain = [('course_id.is_local_bachelor_program_a_level', '=')]
        elif types == 'local_bachelor_program_diploma':
            domain = [('course_id.is_local_bachelor_program_diploma', '=')]
        elif types == 'local_masters_program_bachelor':
            domain = [('course_id.is_local_masters_program_bachelor', '=')]
        elif types == 'international_bachelor_program':
            domain = [('course_id.is_international_bachelor_program', '=')]
        elif types == 'international_masters_program':
            domain = [('course_id.is_international_masters_program', '=')]

        domain.append(('state', '='))
        admission_register = []
        if admission_register:
```


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```
$classes = array( 'zoom' );  
  
if ( $loop == 0 || $loop % $columns == 0 )  
    $classes[] = 'first';  
  
if ( ( $loop + 1 ) % $columns == 0 )  
    $classes[] = 'last';  
  
$image_link = wp_get_attachment_url( $attachment_id );  
  
if ( ! $image_link )  
    continue;  
  
$image      = wp_get_attachment_image( $attachment_id, apply_filters( 'easyzoom_image_size', 'shop_single' ) );  
$image_class = esc_attr( implode( ' ', $classes ) );  
$image_title = esc_attr( get_the_title( $attachment_id ) );  
  
printf( '<div class="slide easyzoom"><a href="%s" title="%s"></a></div>',  
        wp_get_attachment_url( $attachment_id ), get_post( $attachment_id )->post_title, $image_title, $image );  
printf( '<div class="slide easyzoom"><a href="%s" title="%s"></a></div>',  
        wp_get_attachment_url( $attachment_id ), get_post( $attachment_id )->post_title, $image_title, $image );  
  
$loop++;
```

Contents

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#?%</
IS THIS
A GAME...

SHALL WE PLAY?

Error 404
Not Found

HACKER

HACKER



Old Definition

- ❖ Before the 21st Century, an experienced **Genius Programmer**, having Extra-Ordinary Problem Solving skills and capable of finding bugs which other Programmers couldn't find used to be known as a Hacker.

Modern Definition

- ❖ According to the modern Definitions of Hacker, **Hacking** is an attempt to exploit a computer system or a private network inside a computer, and the person who does so, is known as **Hacker**.
- ❖ Hacking is the unauthorized access to or control over computer network security systems for some illicit purpose.





Origin & History

- Hacking has been a part of computing over 40 years.
- The first computer hacker emerged at MIT.
- Hacking is began in the 1960s at MIT , origin of the term “hacker”.
- The truth hacker amongst our societies have thirst for the knowledge .
- Boredom is never an object of challenge for the hacker

Well-known Hackers

- **H4ck3R_777**
- Ian Murphy
- Kevin Mitnick
- Johan Helsinguis
- Linus Torvalds
- Mark Abene
- Robert Morris

Ethical Purposes

- ❖ Problem Solving
- ❖ Mental Exercise
- ❖ Harvesting Information across the Web
- ❖ Patching Software inconsistencies
- ❖ Security Purpose
- ❖ Finding vulnerabilities in systems of organizations
- ❖ Spreading the awareness of threats





Unethical Purposes

- ❖ Gaining access to organizational systems secretly and unethically
- ❖ Steal confidential information from Websites, or Databases
- ❖ Installing Backdoors in Systems
- ❖ Creating Botnets for **DDOS** Attacks
- ❖ Destroy enemies' Databases, Websites and Networks during the Cyber War

Types of Hackers

Ethical Hacker (White hat): Passionate, and Security hackers who gains access to systems with a view to fix the identified weaknesses. They may also perform Penetration testing and Vulnerability assessments.

Cracker (Black hat): A hacker who gains unauthorized access to computer systems for personal gain. The intent is usually to steal corporate data, violate privacy rights, transfer funds from bank accounts etc.

Grey hat: A hacker who is in between ethical and black hat hackers. He/she breaks into computer systems without authority with a view to identify weaknesses and reveal them to the system owner.

Script kiddies: A non-skilled person who gains access to computer systems using already made tools.

Hacktivist: A hacker who use hacking to send social, religious, and political, etc. messages. This is usually done by hijacking websites and leaving the message on the hijacked website.

Phreaker: A hacker who identifies and exploits weaknesses in telephones instead of computers.

Fields of Hacking

- ❖ **Website** Hacking
- ❖ **Network** Hacking
- ❖ **Ethical** Hacking
- ❖ **Email** Hacking
- ❖ **Password** Hacking
- ❖ **Online Banking** Hacking
- ❖ **Computer** Hacking

ANTI VIRUS

MAINTENANCE ACCOUNT SETTING



please wait...
your computer is scanning

UPDATE

QUICK SCAN SCANNING...



C:\Program Files\NETFramework\v4.0.30319\mscorlib.dll

2010 files

14 minutes, 22 seconds left

STOP PAUSE RESUME

Precautionary Measures

- ❖ Avoiding being hacked
- ❖ Keep Antivirus active and up-to-date
- ❖ Avoid reusing passwords
- ❖ Get media via authorized sources
- ❖ Prefer using another user instead of Admin or Root
- ❖ Keep system offline when idle
- ❖ Encrypt your Data



If got hacked...

- ❖ Reboot the system
- ❖ Disconnect the system from network
- ❖ Restore the system with the backup
- ❖ Reinstall all the programs
- ❖ Clean installing the Operating System
- ❖ Contact the Cyber Security Expert



Supremacy for Hackers

- Retrieval of Lost or Accidentally Encrypted Data and Information
- Defense against malicious attacks and spread awareness about it
- Teaches us that no technology is 100% secure.
- Testing the Security level of the Network
- Warning the Organizations about any Security Vulnerability

Downsides of Hacking

- Criminals use it to their advantage
- Data breaches and leaks
- Intruders invade people's privacies
- Denial of Service (DOS) attacks
- Millions of Stolen Accounts and Hacked Debit Card information is sold in auctions



A photograph of a desk setup. On the left, a black speaker with a yellow driver has a small blue and gold dragon figurine on top. Next to it is a large black monitor. To the right of the monitor is another black speaker with a yellow driver, topped with a small figurine. In front of the monitor is a black keyboard and a black mouse on a black mousepad. A silver laptop is closed to the right of the mousepad. On the desk, there is a dark green bottle and two blue cans with white text. A desk lamp is on the right side. A black office chair is in the foreground. On the far left, there are some books and a small photo of a man.

Final words

- Hacking is mostly misunderstood as **Black-Hat** hacking
- Use of the Technology makes it Good or Bad
- Always use trusted sources for Media viewing and Downloads
- Keep your accounts safe