DOWNLOAD INSTAGRAM PROFILE PIC USING PYTHON

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PROBLEM STATEMENT / DESCRIPTION:

Problem Statement:

This mini project mainly aims "To Design and implement a Python program that can able to download the profile picture of the given Instagram account".

Description:

We're building a Python script. You give it an Instagram username, and it downloads the profile picture. It's smart enough to handle errors like private accounts or usernames that don't exist.

ABSTRACT :

❑ This mini project is a theoretical exploration of Python's capabilities in interacting with web resources, specifically social media platforms like Instagram.

❑ It underscores the importance of ethical programming practices and user privacy.

❑ It's important to note that we must respect Instagram's rules and not implement this without proper authorization

PROPOSED SOLUTION :

Our approach is to use Python's requests library to send a request to the URL of the Instagram profile picture and save the image. We'll also add error handling to deal with any potential issues.

REAL LIFE APPLICATION:

✓ The skills you learn from this project can be applied to other areas like web scraping, interacting with APIs, processing images, and automating tasks.

✓ Python is widely used for web scraping, which is the process of extracting data from websites. This can be useful for a variety of applications, such as data analysis, data visualization, and machine learning.

✓ For graphic designers, artists, or anyone who works with images, a Python script can be used to build a database of images for reference or inspiration.

✓ In website development and testing, scripts like these can be used to check whether images or other resources are loading correctly.

HARDWARE AND SOFTWARE REQUIREMENTS:

Hardware Requirements:

A standard computer system with an internet connection.

Software Requirements:

Python 3.x, Python's requests library for sending HTTP requests, and a text editor or Integrated Development Environment (IDE) for writing and running the Python script.

PROJECT CODE:

```python
import instaloader
from PIL import Image
import os
K = instaloader.Instaloader()
def download_and_display_profile_picture(username):
    try:
        K.download_profile(username, profile_pic_only=True)
        download_directory = os.path.join(os.getcwd(), username)
        image_files = [f for f in os.listdir(download_directory) if f.endswith('.jpg')]
        if len(image_files) == 0:
            print("Error: No jpg file found in the download directory.")
            return
        image_path = os.path.join(download_directory, image_files[0])
        img = Image.open(image_path)
        img.show()
        print("Profile picture downloaded and displayed successfully.")
    except Exception as e:
        print(f"Error: {e}")
username = input("Enter the Instagram username: ")
download_and_display_profile_picture(username)
```

OUTPUT:

Enter the Instagram username: nareshdpython
Stored ID 66587744221 for profile nareshdpython.
nareshdpython\2024-05-09_15-08-47_UTC_profile_pic.jpg
Profile picture downloaded and displayed successfully.

Downloaded profile picture:

- Thank you