

The Virtual Preservation Bot

By The Akatsuki

Mentors

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Hackers

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Business
Management

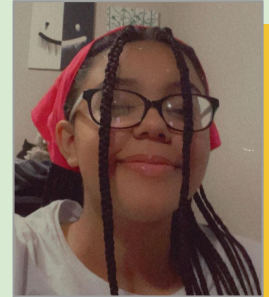
Computer
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Dual Computer
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Computer
Science

Computer
Science

Sam
McDonald



Trinity
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What's The Problem?

- ❖ Gentrification is the process of changing the character of/renovating a neighborhood to fit the taste of the middle class.
- ❖ 12% of neighborhoods in New York are currently being gentrified or have already been gentrified
- ❖ Loss of historical places
- ❖ Lower-Income families get pushed out



Goals Vs What We Completed

Goals:

Make a bot for Instagram that can post pictures of neighborhoods before and after gentrification

What We Made:

A bot that can successfully open a browser and log into Instagram and open DM's!

For The Future:

- Add the ability to respond to DM's and post the before and after photos.
- Set up the program to run automatically with CloudyCluster

```
# find where to input credentials
username_input = browser.find_element(By.CSS_SELECTOR, "input[name='username']")
password_input = browser.find_element(By.CSS_SELECTOR, "input[name='password']")
```

```
def move_to_text_input(message):
    position = pt.locateOnScreen('images//image_icon.png', confidence=.7)
    pt.moveTo(position[0:2], duration=.5)
    pt.moveRel(-100, 20, duration=.5)
    pt.doubleClick(interval=.3)
```

```
image_location_1 = 'https://github.com/jullie-s/akatsuki/blob/main/Screen'

post_url = 'https://graph.facebook.com/v13.0/17841452251535696/media?capt
    'made%20by%20Team%20Akatsuki%21&access_token=EAAHao1ELHaMBA00YVQtpZCY
    'siqMubmWH0QprtFYhcSdQC6Vq0cBIQZBX2YcLyXrCikHIV8dD2PgrQkzBvXxHkHBZJCv
    '2SUMxS&image_url=https://github.com/jullie-s/akatsuki/blob/main/Scree
    'Sites.jpg?raw=true'.format(103894095625044)
```

Our Process + The Demo!!

[Demo Link](#)

[Github](#)

1. Used Selenium to open a Chrome browser
2. Searched for Instagram Bot Libraries. (all out of date)
3. Switched to Facebook/ Instagram Graph API and got necessary tokens.
4. Coded the automated Instagram post using Python.
5. Coded the bot to read and respond to DM's

Resources

- CloudyCluster
- pyCharm/Python 3
- RepLit
- Instagram Graph API
- Postman
- Youtube



A Special Thank You!

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- ❖ Dr. Felicia Doswell
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- ❖ Amy Cannon
- ❖ Alex Nolte

