Лабораторная работа №10

Код программы:

main.py:

```
main.py > ...
    from flask import Flask, request, render_template, jsonify, send_file
    from PIL import Image, ImageDraw
    import io
    import base64
    import os
    app = Flask(__name__)
8
    @app.route('/login')
    def login():
         return jsonify({"author": "1150432"})
    @app.route('/makeimage', methods=['GET', 'POST'])
    def make_image():
        if request.method == 'POST':
            try:
                width = int(request.form.get('width'))
                height = int(request.form.get('height'))
                text = request.form.get('text', '')
                 if width <= 0 or height <= 0:
                     return render_template('makeimage.html',
                                            message="Invalid image size")
26
                 img = Image.new('RGB', (width, height), color=(73, 109, 137))
                d = ImageDraw.Draw(img)
30
                d.text((10, 10), text, fill=(255, 255, 0))
                 img_bytes = io.BytesIO()
34
                 img.save(img_bytes, format='JPEG')
                 img_bytes.seek(0)
36
37
```

makeimage.html:

```
🗀 templates > 🥫 makeimage.html
 1
    <!DOCTYPE html>
 2
    <html>
    <head>
 4
        <title>Image Generator</title>
     </head>
 6
     <body>
        {% if message %}
 8
            {{ message }}
 9
         {% endif %}
10
        <form method="POST" action="/makeimage">
            Width: <input type="number" name="width" required><br>
11
12
            Height: <input type="number" name="height" required><br>
13
            Text: <input type="text" name="text"><br>
             <input type="submit" value="Generate Image">
14
15
        </form>
16
     </body>
     </html>
17
```

display.html:

Результат:

```
COMP PRACT
Comp PRACT
Generate another image
```

Консоль:

```
Press CTRL+C to quit
                    [24/Jun/2025 17:02:16] "GET / HTTP/1.1" 404 -
172.31.128.104 - -
172.31.128.104
                    [24/Jun/2025 17:02:26]
                                            "GET /login HTTP/1.1" 200 -
                    [24/Jun/2025 17:02:50]
                                            "GET /makeimage HTTP/1.1" 200 -
172.31.128.104
                                            "POST /makeimage HTTP/1.1" 200 -
172.31.128.104
                    [24/Jun/2025 17:03:03]
                    [24/Jun/2025 17:03:11]
                                            "GET /makeimage HTTP/1.1" 200 -
172.31.128.104
                                            "POST /makeimage HTTP/1.1" 200 - "GET / HTTP/1.1" 404 -
172.31.128.104
                    [24/Jun/2025 17:03:25]
                    [24/Jun/2025 17:03:37]
172.31.128.104 - -
172.31.128.104 - -
                    [24/Jun/2025 17:03:44]
                                            "GET /makeimage HTTP/1.1" 200 -
                                            "POST /makeimage HTTP/1.1" 200 -
172.31.128.104 - -
                    [24/Jun/2025 17:04:05]
172.31.128.104 - -
                    [24/Jun/2025 17:07:55]
                                            "GET /login HTTP/1.1" 200 -
172.31.128.104 - -
                                            "GET /makeimage HTTP/1.1" 200 -
                    [24/Jun/2025 17:08:24]
172.31.128.104 - -
                    [24/Jun/2025 17:09:55] "POST /makeimage HTTP/1.1" 200 -
```