在用户登录,注册以及一些敏感操作的时候,我们为了防止服务器被暴力请求,或爬虫爬取,我们可以使用验证码进行过滤,减轻服务器的压力。

验证码需要使用绘图 Pillow

pip install Pillow

核心I

Image,ImageDraw,ImageFont

```
绘制流程
```

background = (10,20,30) RGB颜色 初始化画布 image = <u>Image.new</u>('RGB',(100,50),background)

获取画布中画笔对象 draw = ImageDraw.Draw(image)

绘制验证码,随机四个 font = <u>ImageFont.truetype('path',size)</u> fontcolor = (20,40,60) <u>draw.text((x,y),'R',font.fontcolor)</u>

```
ADOBEARABIC-BOLDITALIC.OTF
STATICFILES DIRS =
                                              # ADOBEARABIC - ITALIC . OTF
    os.path.join(BASE_DIR, 'static'),
                                               ADOBEARABIC-REGULAR.OTF
                                              Ctrl+向下箭头 and Ctrl+向上箭头 will move or
FONT_PATH = os.path.join(BASE_DIR, 'static/fonts/A')
def get_code(request):
    # 初始化画市、初始化画名
    mode = "RGB"
    size = (200, 100)
                                                                  I
    red = get_color()
    green = get color()
    blue = get_color()
    color_bg = (red, green, blue)
    image = Image.new(mode=mode, size=size, color=color_bg)
```

```
verify code = generate code()
       for i in range(4):
           fill = (get_color(), get_color(), get_color())
imagedraw.text(xy=(50*i, 0), text=verify_code[i], font=imagefont, fill=fill)
       for 1 in range(10000):
           fill = (get_color(), get_color(), get_color())
xy = (random.randrange(201), random.randrange(100))
imagedraw.point(xy=xy, fill=fill)
       fp = BytesIO()
       image.save(fp, "png")
       return HttpResponse(fp.getvalue(), content_type="image/png")
  def get color():
       return random.randrange(256)
  def generate_code():
      source = "qwertyuiopasdfghjklzxcvbnm1234567890QWERTYUIOPASDFGHJKLZXCVBNM"
      code = ""
       for i in range(4):
           code += random.choice(source)
       return code
   Imageron: - Imageron: Cruetype(Sectings.rom: FAIN, 100)
   verify_code = generate_code()
request.session['verify_code'] = verify_code
  @csrf exempt
  def login(request):
      if request.method == "GET":
    return render(request, 'login.html')
      elif request.method == "POST":
    receive_code = request.POST.get("verify_code")
           store_code = request.session.get("verify_code")
           if receive code.lower() != store code.lower():
           return redirect(reverse('app:login'))
return HttpResponse("是意成功")
                                                                    0
       {% load static %}
<!DOCTYPE html>
       <html lang="en">
       <head>
            <meta charset="UTF-8">
           <title>Login</title>
            <script type="text/javascript" src="https://cdn.bootcss.com/jquery/1.11.1/jquery.js"></script>
            <script type="text/javascript" src="{% static 'js/login.js' %}"></script>
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18
       </head>
       <body>
       <form action="{% url 'app:login' %}" method="post">
            <span>用户名:</span> <input type="text" name="username" placeholder="株神株神">
19
20
21
            <br>
            <span>验证码:</span><input type="text" name="verify_code" placeholder="请输入下图中的验证吗">
            <img src="{% url 'app:get_code' %}">
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28
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30
31
              <img src="#">#)
            <br/>dr>
            <button>精神一下</button>
       </form>
       </body>
       </html>
```



