

# Form

## create form

```
from flask import Flask, render_template

app = Flask(__name__)

# can only use GET request
# because register.html -> form
# if submit, data in the form will appeared in URL (str concat)
@app.route('/register', methods=['GET'])
def register():
    return render_template("register.html")

if __name__ == '__main__':
    app.run()
```

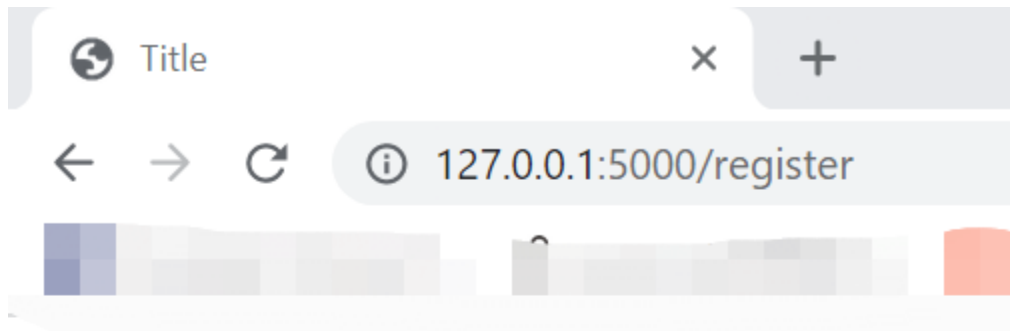
```
<!-- register.html -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
    <h1>User Register</h1>
    <!-- use get, send data in the form to "#" -->
    <form method="get" action="#/xxx/xxx">
        <div> User name
            <input type="text" name="user"/>
        </div>
        <div> password
            <input type="password" name="psw"/>
        </div>

        <div> gender
            <input type="radio" name="gender"/> male
            <input type="radio" name="gender"/> female
        </div>
        <div>
            <input type="submit", value="register">
        </div>
    </form>

</body>
</html>
```

to submit a form

1. must have `<form></form>` label
2. data must in `<form></form>` label
3. can define submit method, action
4. must have submit  
`<input type="submit", value="register">`
5. must define name for each label in form

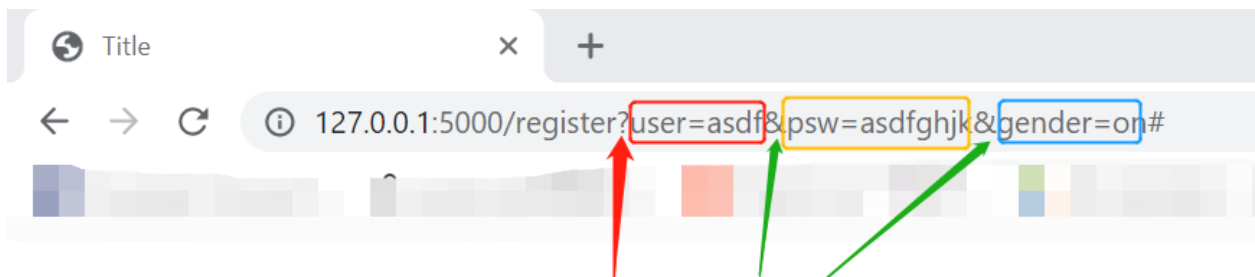


# User Register

User name

password

gender ☐ male ☒ female

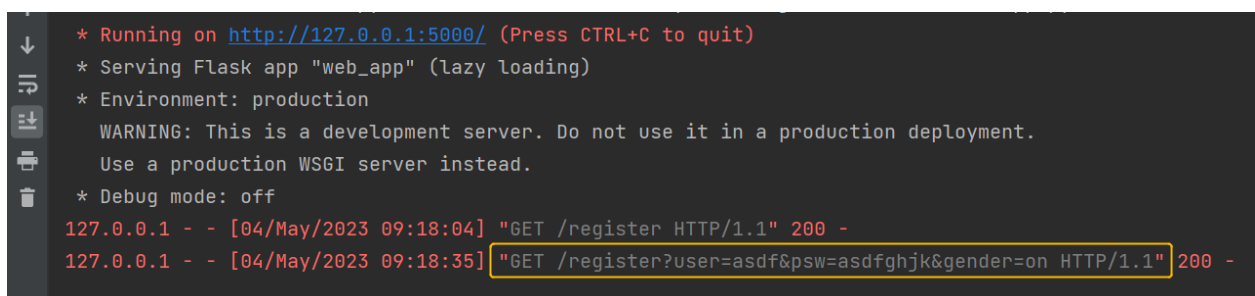


**User Register** new URL = original URL + ? + [i for i in form].join("&") + send to URL

User name

password

gender ☐ male ☐ female



get parameters While using GET method

```

from flask import Flask, render_template, request

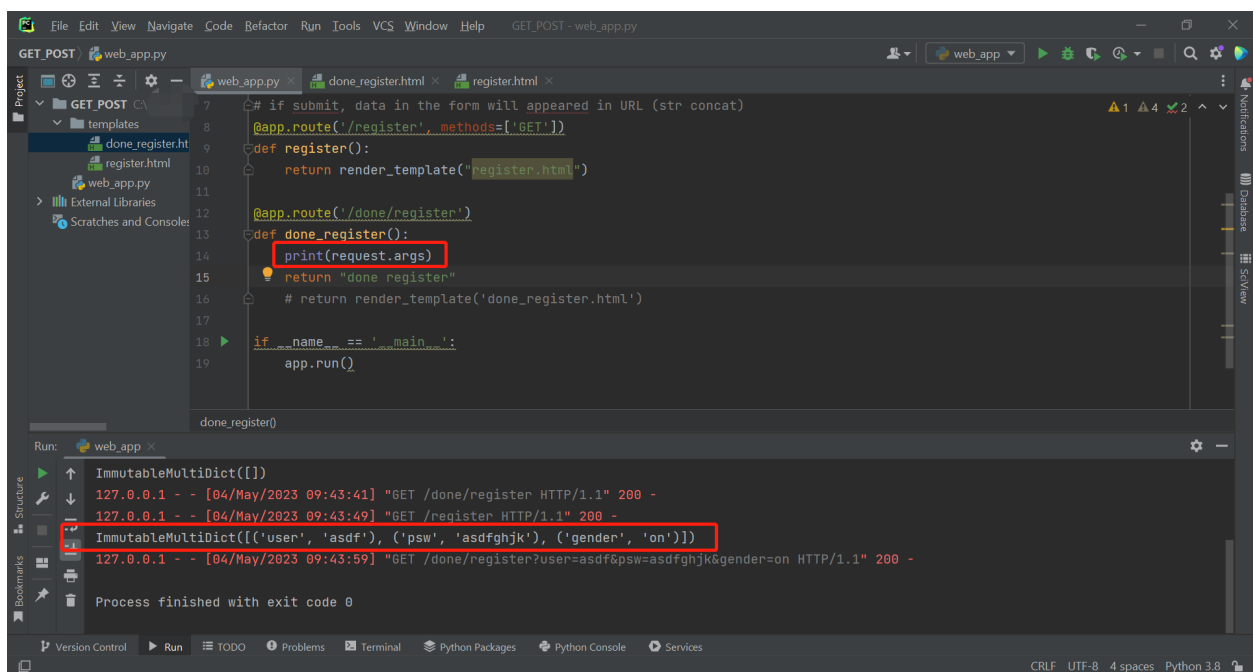
app = Flask(__name__)

# can only use GET request
# because register.html -> form
# if submit, data in the form will appeared in URL (str concat)
@app.route('/register', methods=['GET'])
def register():
    return render_template("register.html")

@app.route('/done/register')
def done_register():
    print(request.args)
    return "done register"
    # return render_template('done_register.html')

if __name__ == '__main__':
    app.run()

```



## get parameters While using POST method

```

from flask import Flask, render_template, request

app = Flask(__name__)

# can only use GET request
# because register.html -> form
# if submit, data in the form will appeared in URL (str concat)
@app.route('/register', methods=['GET'])
def register():
    return render_template("register.html")

@app.route('/post/register', methods=['GET'])
def post_register():
    return render_template("post_register.html")

@app.route('/done/register', methods=['GET'])
def done_register():
    print(request.args)
    return "done register"
    # return render_template('done_register.html')

```

```

@app.route('/done/Pregister', methods=['POST'])
def done_Pregister():
    print(request.form)
    return "done post register"
    # return render_template('done_Pregister.html')

if __name__ == '__main__':
    app.run()

```

```

<!-- post_register -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
    <h1>User Register</h1>
    <!-- use get, send data in the form to "#" -->
    <form method="post" action="/done/Pregister">
        <div> User name
            <input type="text" name="user"/>
        </div>
        <div> password
            <input type="password" name="psw"/>
        </div>

        <div> gender
            <input type="radio" name="gender"/> male
            <input type="radio" name="gender"/> female
        </div>
        <div>
            <input type="submit", value="register">
        </div>
    </form>

</body>
</html>

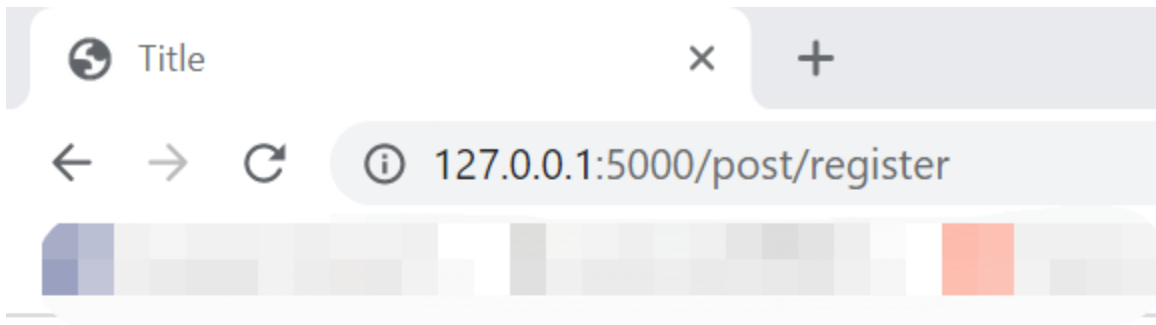
```

```

<!-- done_Pregister.html -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>

</body>
</html>

```

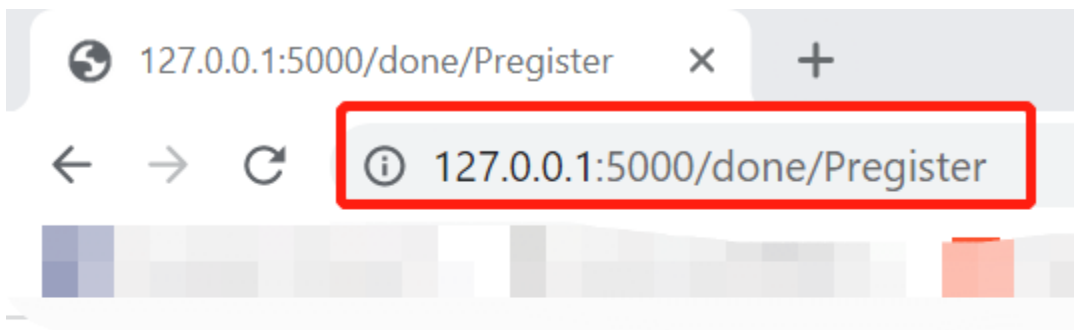


# User Register

User name

password

gender ☐ male ☒ female



done post register

The screenshot shows an IDE with a project named 'GET\_POST'. The file 'web\_app.py' is open, showing two routes. The first route is for '/post/register' with the method 'GET' (highlighted in a red box). The second route is for '/done/Pregister' with the method 'POST' (highlighted in a red box). The terminal output shows the application running on http://127.0.0.1:5000/. It logs a GET request to /post/register and a POST request to /done/Pregister (highlighted in a yellow box).

```
11 @app.route('/post/register', methods=['GET'])
12 def post_register():
13     return render_template("post_register.html")
14
15 @app.route('/done/register', methods=['GET'])
16 def done_register():
17     print(request.args)
18     return "done register"
19     # return render_template('done_register.html')
20
21 @app.route('/done/Pregister', methods=['POST'])
22 def done_Pregister():
23     print(request.form)
24     return "done post register"
25
```

```
Run: web_app
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [04/May/2023 09:52:22] "GET /post/register HTTP/1.1" 200 -
ImmutableMultiDict([('user', 'asdf'), ('psw', 'asdfghjk'), ('gender', 'on')])
127.0.0.1 - - [04/May/2023 09:52:49] "POST /done/Pregister HTTP/1.1" 200 -
```

The screenshot shows an IDE with an HTML file. The code defines a form with the method 'post' (highlighted in a red box) and the action '/done/Pregister' (highlighted in a red box). The form contains two input fields: 'user' (text) and 'psw' (password).

```
<meta charset="UTF-8">
<title>Title</title>
</head>
<body>
  <h1>User Register</h1>
  <!-- use get, send data in the form to "#" -->
  <form method="post" action="/done/Pregister">
    <div> User name
      <input type="text" name="user"/>
    </div>
    <div> password
      <input type="password" name="psw"/>
    </div>
  </form>
</body>
```

```
<!-- post_register.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
</head>
<body>
  <h1>User Register</h1>
  <!-- use get, send data in the form to "#" -->
  <form method="post" action="/done/Pregister">
    <div> User name
      <input type="text" name="user"/>
    </div>
    <div> password
```

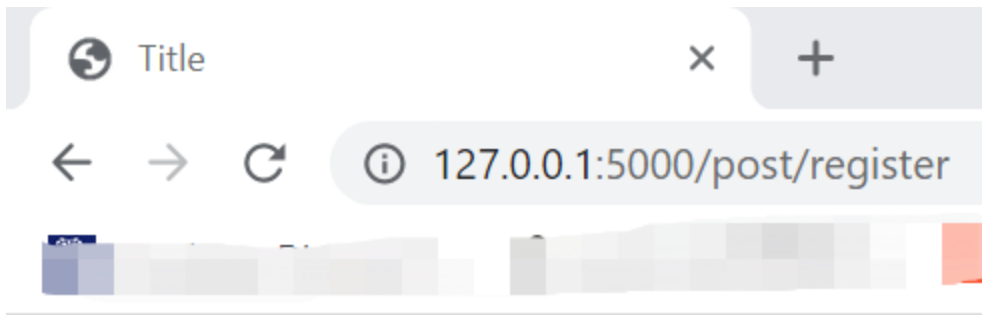
```

        <input type="password" name="psw"/>
    </div>

    <div> gender
        <input type="radio" name="gender" value="1"/> male
        <input type="radio" name="gender" value="2"/> female
    </div>
    <div> team
        <input type="checkbox" name="team" value="1"/> A
        <input type="checkbox" name="team" value="2"/> B
        <input type="checkbox" name="team" value="3"/> C
        <input type="checkbox" name="team" value="4"/> D
    </div>
    <div>
        <input type="submit", value="register">
    </div>
</form>

</body>
</html>

```



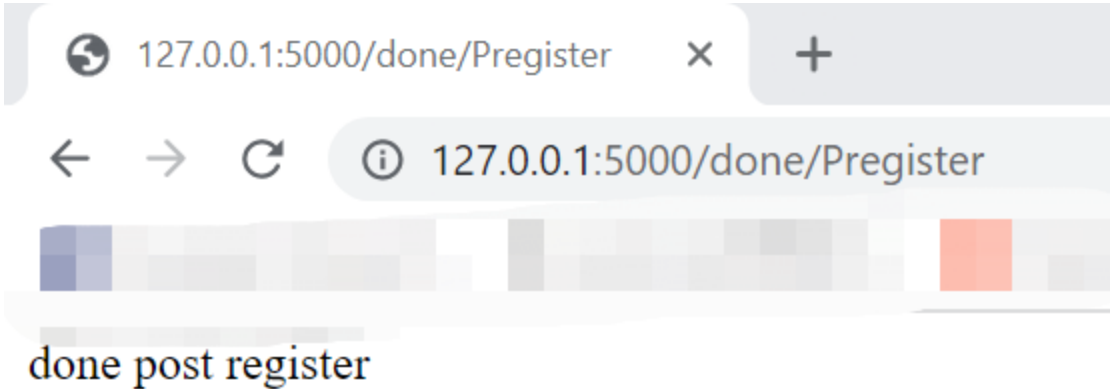
# User Register

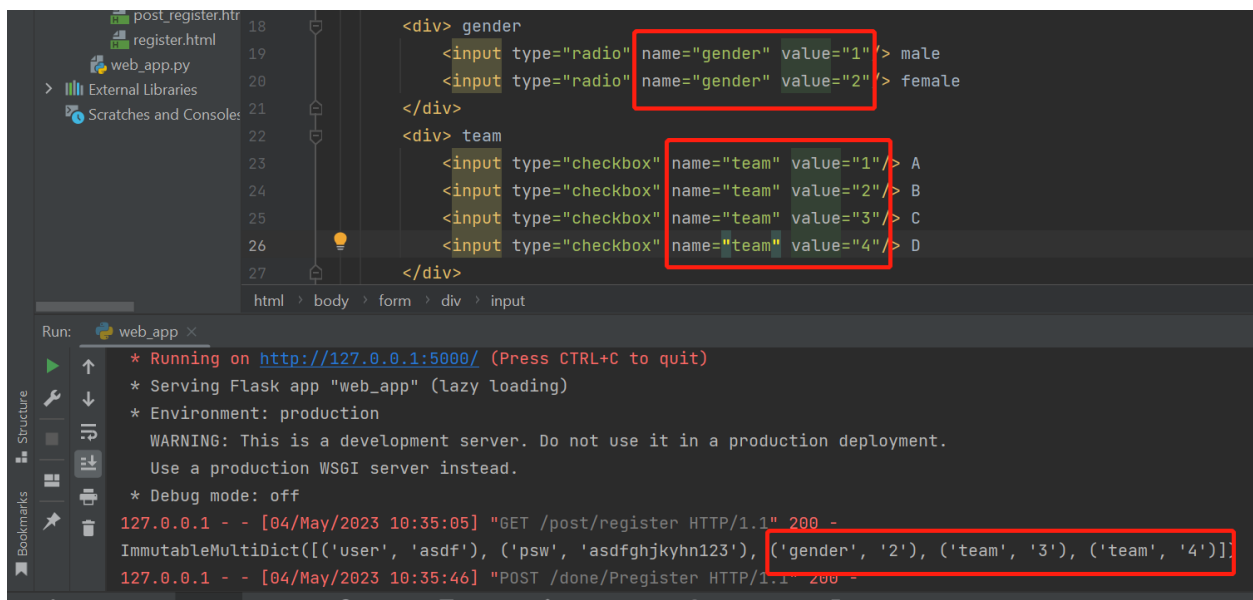
User name

password

gender ☐ male ☒ female

team ☐ A ☐ B ☒ C ☒ D





```
from flask import Flask, render_template, request

app = Flask(__name__)

# can only use GET request
# because register.html -> form
# if submit, data in the form will appeared in URL (str concat)
@app.route('/register', methods=['GET'])
def register():
    return render_template("register.html")

@app.route('/post/register', methods=['GET'])
def post_register():
    return render_template("post_register.html")

@app.route('/done/register', methods=['GET'])
def done_register():
    print(request.args)
    return "done register"
    # return render_template('done_register.html')

@app.route('/done/Pregister', methods=['POST'])
def done_Pregister():
    print(request.form)
    user = request.form.get("user")
    psw = request.form.get("psw")
    gender = request.form.get("gender")
    city = request.form.get("city")
    team = request.form.get("user")
    comment = request.form.get("addText")
    print(user, psw)
    print(team, city)
    print(gender)
    return "done post register"
    # return render_template('done_Pregister.html')

if __name__ == '__main__':
    app.run()
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
    <h1>User Register</h1>
    <!-- use get, send data in the form to "#" -->
```



```
<form method="post" action="/done/Pregister">
  <div> User name
    <input type="text" name="user"/>
  </div>
  <div> password
    <input type="password" name="psw"/>
  </div>

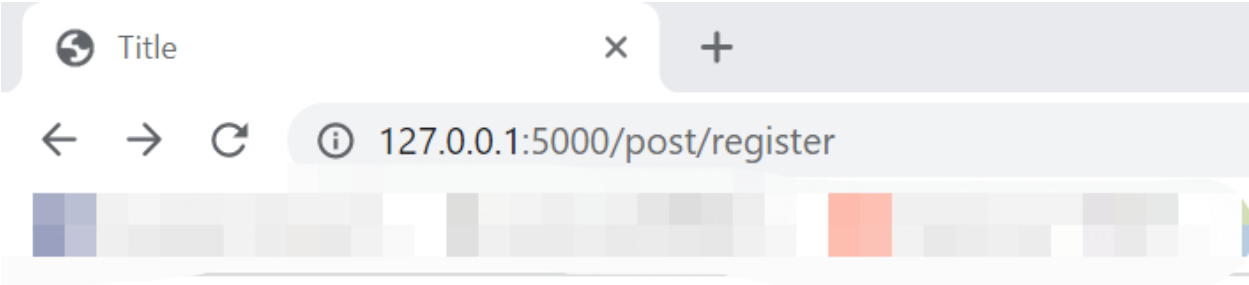
  <div> gender
    <input type="radio" name="gender" value="1"/> male
    <input type="radio" name="gender" value="2"/> female
  </div>
  <div> team
    <input type="checkbox" name="team" value="1"/> A
    <input type="checkbox" name="team" value="2"/> B
    <input type="checkbox" name="team" value="3"/> C
    <input type="checkbox" name="team" value="4"/> D
  </div>

  <div> city
    <select>
      <option>Houston</option>
      <option>Austin</option>
      <option>Dallas</option>
    </select>
  </div>

  <div> comment
    <textarea name="addText"></textarea>
  </div>

  <div>
    <input type="submit", value="register">
  </div>
</form>

</body>
</html>
```



# User Register

User name

password

gender ☐ male ☒ female

team ☐ A ☒ B ☒ C ☐ D

city

comment



# Combine URL

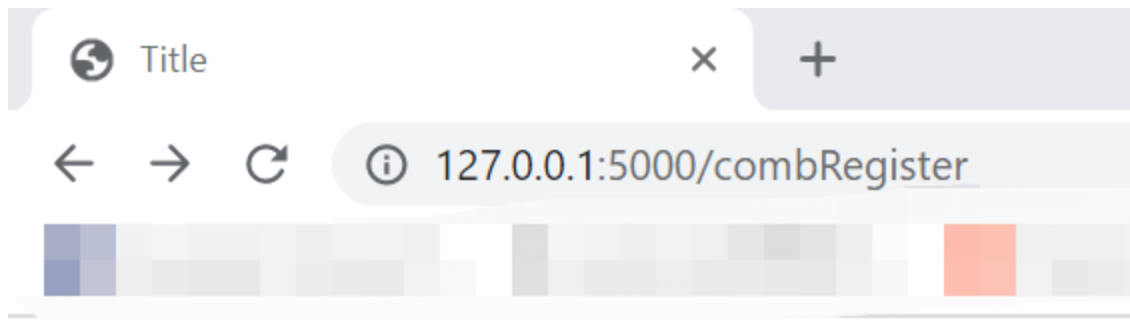
```
from flask import Flask, render_template, request

app = Flask(__name__)

@app.route('/combRegister', methods=['GET', 'POST'])
def combRegister():
    if request.method == "GET":
        return render_template("post_register.html")
    else:
```

```
print(request.form)
user = request.form.get("user")
psw = request.form.get("psw")
gender = request.form.get("gender")
city = request.form.get("city")
team = request.form.get("user")
comment = request.form.get("addText")
print(user, psw)
print(team, city)
print(gender)
return "done post register"

if __name__ == '__main__':
    app.run()
```



# User Register

User name

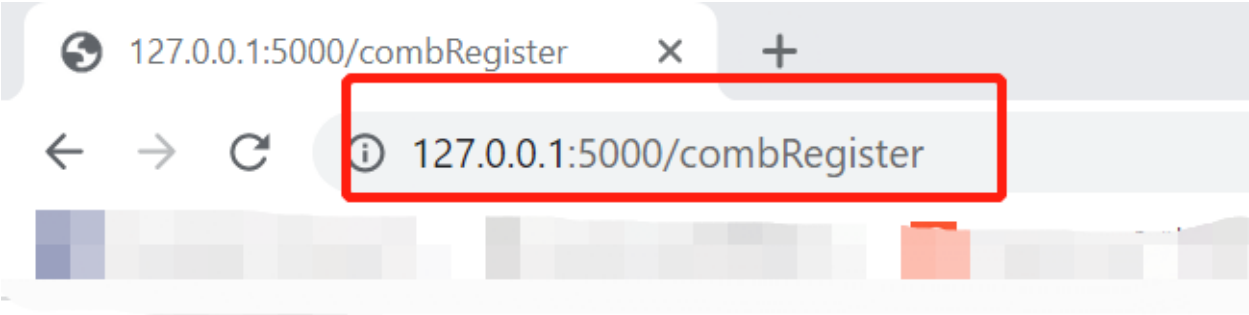
password

gender ☐ male ☒ female

team ☒ A ☐ B ☒ C ☐ D

city

comment



done post register

```
web_app.py x done_Register.html x post_register.html x done_register.html x register.html x
@app.route('/combRegister', methods=['GET', 'POST'])
def combRegister():
    if request.method == "GET":
        return render_template("post_register.html")
    else:
        print(request.form)
        user = request.form.get("user")
        psw = request.form.get("psw")
        gender = request.form.get("gender")
        city = request.form.get("city")
        team = request.form.get("user")
        comment = request.form.get("addText")
        print(user, psw)

if __name__ == '__main__':
    web_app.run()
```

```
127.0.0.1 - - [04/May/2023 10:58:07] "GET /combRegister HTTP/1.1" 200 -
ImmutableMultiDict([('user', 'asdf'), ('psw', 'asdfghjkrfv123'), ('gender', '2'), ('team', '1'), ('team', '3'), ('addText', 'xdw3r')])
asdf asdfghjkrfv123
asdf None
2
127.0.0.1 - - [04/May/2023 10:58:28] "POST /combRegister HTTP/1.1" 200 -
Process finished with exit code 0
```