

# Flask Cheat Sheet & Quick Reference

### Flask App #

```
from flask import Flask
app = Flask(__name__)
@app.route("/")
def index():
    return "Hello Welcome to Flask"
if __name__ == '__main__':
    app.run(debug=True)
```

## Flask Routing #

```
@app.route("/users) #-> microbrains.com/users
@app.route("/users/<username>") #-> microbrains.com/users/steve
#@app.route("/users/<string:username>")
def index(username):
    return "User is " + username
#types - string(default), int, float, path, uuid
```

### Templates #

## **Configuration #**

```
app.config['CONFIG_NAME'] = 'Conf. Value'
app.config.from_envvar('variable_name')
```

### **Accessing Request #**

```
from flask import request

query_string = request.args["q"]  # query string

form_user = request.form["user"]  # form data

http_method = request.method  # get requested method

req_headers = request.headers  # all req. header info.

acc_header = request.headers["Accept"]  # specific req. header

note = request.files['notes']  # get uploaded files
```

### Allowed methods #

```
@app.route("/login", methods=['GET', 'POST'])
def login():
    if request.method == 'GET':
        return render_template("login.html")
    elif request.method == 'POST':
        return request.form["user"] + request.form["pass"]
```

### Redirect #

```
from flask import redirect, url_for

@app.route('/load/<pid>', defaults={'pid': 0})

def handle_data(pid):
    return 'Data Id #{}'.format(pid)

@app.route('/red')

def change_resp():
    return redirect(url_for('handle_data', pid=10))
```



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### **Setting Response #**

```
@app.route('/check')
def make_error():
    #creates gateway time
    return "this is a plain text", 505

@app.route('/change')
def change_resp():
    return "this is a plain text", 200, {
        'Content-Type': 'text/plain'}

from flask import make_response

@app.route('/make/response')
def make_resp():
    response = make_response('<txt>XML Node Created</txt>', 201)
    response.headers['Content-Type'] = 'application/xml'
    response.headers['Access-Control-Allow-Origin'] = '*'
    return response
```

## **JSON** Response #

```
from flask import jsonify
@app.route('/json')
def users_json():
    data = {"message": "OK", "status": 1}
    return jsonify(data)

@app.route('/reply/json')
def users_json_content_type():
    return '{"message": "OK", "status": 1}', 200, {
        'Content-Type': 'application/json'}
```

#### Abort #

```
@app.route('/check')
def make_error():
    #making error with status code & message
    abort(504)
```

### **Error Handling #**

```
@app.errorhandler(404)
def handler_404(e):
    #render own template & set headers
    return "requested page not found", 404
```

### **Cookie Handling #**

```
response = make_response("")
#set_cookie(key, value='', max_age=None, expires=None,
    path='/', domain=None, secure=None, httponly=False)
response.set_cookie('name', 'value', max_age=60) #set cookie
request.cookies.get('auth_user') # cookie by name
request.cookies['auth_user'] # cookie by name
request.cookies #All cookies
```

## **Session Handling #**

```
from flask import session
app.config["SECRET_KEY"] = "<your secret key>"
session['key'] = 'value'  # create session key
if 'key' in session:
    variable = session['key']  #get session value

del session['key'] #delete session key
session.clear() #removes session completely
```

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