

Flask – Redirect & Errors

Flask class has a **redirect()** function. When called, it returns a response object and redirects the user to another target location with specified status code.

Prototype of **redirect()** function is as below –

```
Flask.redirect(location, statuscode, response)
```

In the above function –

location parameter is the URL where response should be redirected.

statuscode sent to browser's header, defaults to 302.

response parameter is used to instantiate response.

The following status codes are standardized –

```
HTTP_300_MULTIPLE_CHOICES
HTTP_301_MOVED_PERMANENTLY
HTTP_302_FOUND
HTTP_303_SEE_OTHER
HTTP_304_NOT_MODIFIED
HTTP_305_USE_PROXY
HTTP_306_RESERVED
HTTP_307_TEMPORARY_REDIRECT
```

The **default status** code is **302**, which is for **'found'**.

In the following example, the **redirect()** function is used to display the login page again when a login attempt fails.

```
from flask import Flask, redirect, url_for, render_template, request
# Initialize the Flask application
app = Flask(__name__)

@app.route('/')
def index():
    return render_template('log_in.html')

@app.route('/login', methods = ['POST', 'GET'])
def login():
    if request.method == 'POST' and request.form['username'] == 'admin' :
        return redirect(url_for('success'))
```

```

else:
    return redirect(url_for('index'))

@app.route('/success')
def success():
    return 'logged in successfully'

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

```

Flask class has **abort()** function with an error code.

```
Flask.abort(code)
```

The **Code** parameter takes one of following values –

- 400** – for Bad Request
- 401** – for Unauthenticated
- 403** – for Forbidden
- 404** – for Not Found
- 406** – for Not Acceptable
- 415** – for Unsupported Media Type
- 429** – Too Many Requests

Let us make a slight change in the **login()** function in the above code. Instead of re-displaying the login page, if **'Unauthorised'** page is to be displayed, replace it with call to **abort(401)**.

```

from flask import Flask, redirect, url_for, render_template, request, abort
app = Flask(__name__)

@app.route('/')
def index():
    return render_template('log_in.html')

@app.route('/login', methods = ['POST', 'GET'])
def login():
    if request.method == 'POST':
        if request.form['username'] == 'admin':
            return redirect(url_for('success'))
        else:
            abort(401)
    else:
        return redirect(url_for('index'))

@app.route('/success')
def success():
    return 'logged in successfully'

if __name__ == '__main__':

```

```
app.run(debug = True)
```

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