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Redirecting to URL in Flask

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Flask is a backend server that is built entirely using Python. It is a framework that consists of [Python](#) packages and modules. It is lightweight which makes developing backend applications quicker with its features. In this article, we will learn to redirect a URL in the [Flask](#) web application.

Redirect to a URL in Flask

A redirect is used in the Flask class to send the user to a particular URL with the status code. conversely, this status code additionally identifies the issue. When we access a website, our browser sends a request to the server, and the server replies with what is known as the HTTP status code, which is a three-digit number.

Syntax of Redirect in Flask

Syntax: `flask.redirect(location,code=302)`

Parameters:

- **location(str):** the location which URL directs to.
- **code(int):** The status code for Redirect.
- **Code:** The default code is 302 which means that the move is only temporary.

Return: The response object and redirects the user to another target location with the specified code.

The different types of HTTP codes are:

Code	Status
300	Multiple_choices
301	Moved_permanently
302	Found
303	See_other
304	Not_modified
305	Use_proxy
306	Reserved
307	Temporary_redirect

How To Redirect To Url in Flask

In this example, we have created a sample flask application **app.py**. It has two routes, One is the base route `\` and another is `\helloworld` route. Here when a user hits the base URL `\ (root)` it will redirect to `\helloworld`.

app.py

Python3

```
# import flask module
from flask import Flask, redirect

# instance of flask application
app = Flask(__name__)

# home route that redirects to
# helloworld page
@app.route("/")
def home():
    return redirect("/helloworld")
```

```
# route that returns hello world text
@app.route("/helloworld")
def hello_world():
    return "<p>Hello, World from \
        redirected page.</p>"

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

Output:

We hit the base URL in the browser as shown below. As soon we hit the URL flask application returns the redirect function and redirects to the given URL.

```
((test) ) C:\Users\suraj\Desktop\flask\test>python app.py
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Running on http://127.0.0.1:5000 (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
* Debugger PIN: 115-625-310
127.0.0.1 - - [25/Oct/2022 20:45:11] "GET / HTTP/1.1" 302 -
127.0.0.1 - - [25/Oct/2022 20:45:11] "GET /helloworld HTTP/1.1" 200 -
```



Hello, World from redirected page.!

url_for() Function in Flask

Another method you can use when performing redirects in Flask is the `url_for()` function URL building. This function accepts the name of the function as the first argument, and the function named `user(name)` accepts the value through the input URL. It checks whether the received argument matches the 'admin' argument or not. If it matches, then the function `hello_admin()` is called else the `hello_guest()` is called.

Python3

```
from flask import Flask, redirect, url_for

app = Flask(__name__)

# decorator for route(argument) function
@app.route('/admin')
# binding to hello_admin call
def hello_admin():
    return 'Hello Admin'

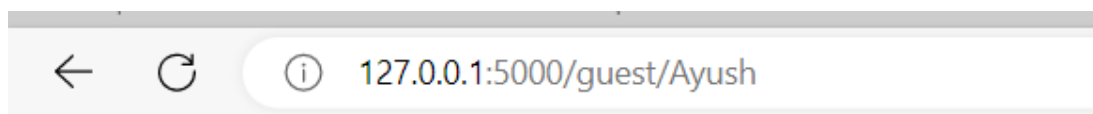
@app.route('/guest/<guest>')
# binding to hello_guest call
def hello_guest(guest):
    return 'Hello %s as Guest' % guest

@app.route('/user/<name>')
def hello_user(name):

    # dynamic binding of URL to function
    if name == 'admin':
        return redirect(url_for('hello_admin'))
    else:
        return redirect(url_for('hello_guest'
                                , guest=name))

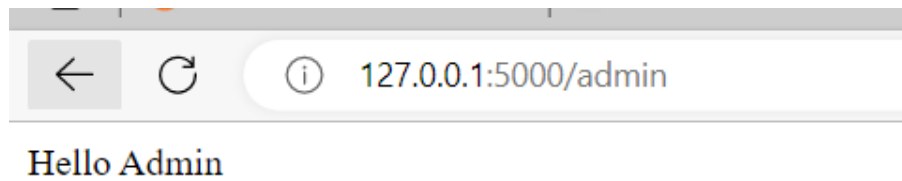
if __name__ == '__main__':
    app.run(debug=True)
```

Output:



Hello Ayush as Guest

hello_guest function



hello_user function

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