

# **Navigation Bars in Flask**

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Navigation across HTML pages is quite a common way to work across pages. The client-side navigation approach is commonly used in HTML. However, having custom server-end navigations can provide greater flexibilities as far as customizations are concerned. This article walks you through a way to integrate Server end navigation using Navbars in Flask.

## Flask Navigation

Flask Templates Jinja2 Flask-REST API Python SQLAlchemy Flask Bcrypt Flask Cookies Json Postman I nis module is used to build navigation bars in the tlask application.

- Allows server end navigation from one page to another.
- Helps to define HTML classes and Navigation items from Python.

### Installation

To install this module type the below command in the terminal.

pip install Flask-Navigation

#### **Functions Used**

nav.Bar(name, items): Initializing name of navigation class with items definition.

nav.Item( label, url, args): Assigns items or lists for each bar. Label name, its linked page URL and extra args like parameter and value of dictionary.

After installation, the next step is to initialize the app context with Navigation(), and define the basic HTML to navigate. Navigation bars also need to be

defined in the code using Bar(), with takes position and list of items are parameters of Navigation Bars. Each Item is input with its label, URL, and parameters passed in the URL.

**Step 1:** Importing Libraries, adding app context and Initializing Navigation Class Object.

## Python3

```
from flask import Flask, render_template
from flask_navigation import Navigation

app = Flask(__name__)
nav = Navigation(app)
```

**Step 2:** Adding Navigation Definition

## Python3

```
# initializing Navigations
nav.Bar('top', [
    nav.Item('Home', 'index'),
    nav.Item('Gfg', 'gfg', {'page': 5}),
])
```

Step 3: Adding flask Routes and run application.

# Python3

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

@app.route('/navpage')
def navpage():
    return render_template('navpage.html')
```

```
@app.route('/gfg/<int:page>')
def gfg(page):
    return render_template('gfg.html', page=page)

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

## Templates:

### navpage.html

In this, for loop is used to iterate to render all the items defined under the top bar, with their url and labels.

### **HTML**

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <title>Title</title>
</head>
<body>
<u1>
   {% for item in nav.top %}
   class="{{ 'active' if item.is_active else '' }}">
       <a href="{{ item.url }}">{{ item.label }}</a>
   {% endfor %}
</body>
</html>
```

#### index.html

### **HTML**

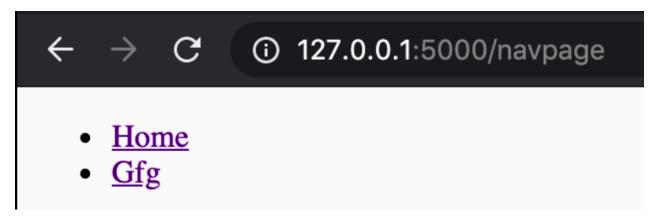
```
<!DOCTYPE html>
<html lang="en">
<head>
```

### gfg.html

### **HTML**

While opening navpage.html, on click of each item, the page is navigated to the required URL as configured for navigation.

## Output:



## **Explanation:**

In navpage.html, each item of navbar is iterated and rendered. Onclick, class is activated and anchor tag takes to the defined path, the linked pages.

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