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# Flask : How create a responsive navbar



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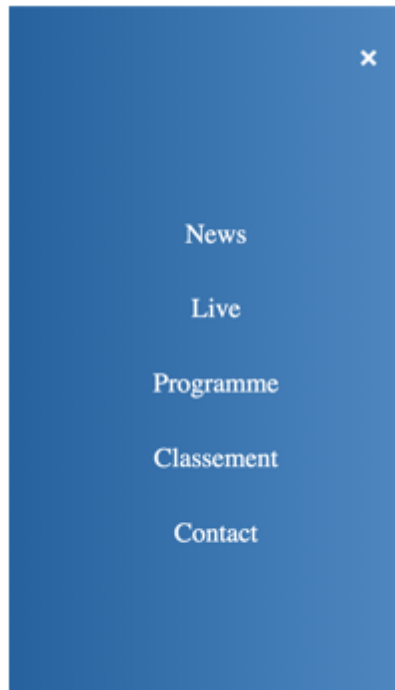
Here's a complete tutorial to learn how we can create a responsive navigation bar, that adapt their layouts to the viewport size, using Flask from scratch.

In this tutorial, we'll look into how use Bootstrap to create a responsive NavBar on Flask. Our navigation will have three different layouts, depending on the viewport size:

1. a **mobile layout** in which only the logo and a toggle button will be visible by default and users can open and close the menu using the toggle,

2. a **tablet layout** in which we will show two call-to-action buttons between the logo and toggle in the default state and the rest of the menu will remain toggleable,
3. a **desktop layout** in which all the menu items, except for the toggle button, will be visible on the screen.

So our navigation bar will contain 5 items and each item will be a page :



The all source code is there : <https://github.com/Faouzizi/createNavigationBarFlask>

## I. Create the HTML

In this part, we will create HTML templates that our python code will call.

For that, we will create only Bootstrap-based template.

The first template that we will create is index.html and all others templates will be child templates.

Each child template is based on blocks (block like Title, navbar, ...).

Jinja2's super() function gives you the option of amending blocks instead of replacing them.

## Available blocks

Block name	Outer Block	Purpose
doc		Outermost block.

<b>html</b>	doc	Contains the complete content of the <code>&lt;html&gt;</code> tag.
<b>html_attribs</b>	doc	Attributes for the HTML tag.
<b>head</b>	doc	Contains the complete content of the <code>&lt;head&gt;</code> tag.
<b>body</b>	doc	Contains the complete content of the <code>&lt;body&gt;</code> tag.
<b>body_attribs</b>	body	Attributes for the Body Tag.
<b>title</b>	head	Contains the complete content of the <code>&lt;title&gt;</code> tag.
<b>styles</b>	head	Contains all CSS style <code>&lt;link&gt;</code> tags inside head.
<b>metas</b>	head	Contains all <code>&lt;meta&gt;</code> tags inside head.
<b>navbar</b>	body	An empty block directly above <i>content</i> .
<b>content</b>	body	Convenience block inside the body. Put stuff here.
<b>scripts</b>	body	Contains all <code>&lt;script&gt;</code> tags at the end of the body.

index.html:

```
<!-- Here we use bootstrap extension for our navigation Bar -->
{% extends "bootstrap/base.html" %}

<!------->
<!------- Nav bar start ----->
<!------->
{% block navbar %}
{{nav.top.render()}}
{% endblock %}
<!------->
<!------- Nav bar end ----->
<!------->
```

Then we create other child templates following the same logic.

**Example:** classement.html

```
{% extends "index.html" %}

{% block content %}
<p> Classements html page</p>
{% endblock %}
```

## II. Create the Python Code

```
#####
#           Import some packages           #
#####
from flask import Flask, render_template
from flask_bootstrap import Bootstrap
from flask_nav import Nav
from flask_nav.elements import *
from dominate.tags import img

#####
#           Define navbar with logo           #
#####
logo = img(src='./static/img/logo.png', height="50", width="50",
style="margin-top:-15px")

#here we define our menu items
topbar = Navbar(logo,
                View('News', 'get_news'),
                View('Live', 'get_live'),
                View('Programme', 'get_programme'),
                View('Classement', 'get_classement'),
                View('Contact', 'get_contact'),
                )

# registers the "top" menubar
nav = Nav()
nav.register_element('top', topbar)

#####
#           Define flask app           #
#####
app = Flask(__name__)
Bootstrap(app)

#####
#           Render Home page           #
#####
@app.route('/news', methods=['GET'])
def get_news():
    return(render_template('news.html'))

#####
#           Render live page           #
#####
@app.route('/live', methods=["GET"])
def get_live():
    return(render_template('live.html'))
```

```
#####
#           Render programme page           #
#####
@app.route('/programme', methods=["GET"])
def get_programme():
    return(render_template('programme.html'))

#####
#           Render Classement page           #
#####
@app.route('/classement', methods=["GET"])
def get_classement():
    return(render_template('classement.html'))

#####
#           Render contact page           #
#####
@app.route('/contact', methods=["GET"])
def get_contact():
    return(render_template('contact.html'))

#####
#           Init our app           #
#####
nav.init_app(app)

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

#### IV. Conclusion

Now, you can install all packages (flask, flask\_bootstrap , flask\_nav) using pip install flask flask\_bootstrap flask\_nav.

You can run main.py and go to <http://localhost:5000/live> (<http://127.0.0.1:5000/live>) to see the result.

Now you are able to create your own navigation bar using Flask so enjoy :)



Photo by [Clemens van Lay](#) on [Unsplash](#)

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