



5) Build Your First Flask Apps Lesson

Lab: Dynamic Routes in Python Flask □

3 min to complete · By Brandon Gigous

Let's introduce you to dynamic routes, then you can take a shot at making a few more yourself for some practice. Have you ever noticed that when browsing SoundCloud or Facebook, whenever you checked out some random guy's profile you could see something like these in the address?

```
www.example.com/user/random_guy
www.example.com/user/someones_grandma
www.example.com/user/Tom
```

All those users pages have a similar structure, where you can see the user's pic, a bit of info, and some stuff they decided to upload or share. In these types of pages, the underlying template contains that static structure, and then loads the content dynamically based on the user (random_guy, someones_grandma, or Tom). There are other kinds of dynamic pages, too.

How to Code Dynamic Routes

Here's something for you to play around with. To make a *dynamic route* in Flask, you surround the dynamic part of the **path** in angle brackets. Let's see an example:

```
@app.route('/user/<username>')
def user(username):
    return f"Hello, {username}!"
```

Go ahead and try this in your hello.py. So what's going on here? When Flask determines that there's angle brackets surrounding part(s) of the path, it expects to see the same token in the list of arguments for the view function. For this example, when you navigate to localhost:5000/user/Tom, you'll see "Hello, Tom!"

Learn by Doing



Now try a few of your own dynamic routes. Try these suggestions:

- Use two dynamic route arguments in a view function (ex: name and age)
- Make another view function that takes a numeric dynamic route argument.
 Return the square of the number in the response
- Try a dynamic argument with spaces and see what happens

Summary: Python Flask Dynamic Routes

- In dynamic routes, the underlying template contains that static structure, and then loads the content dynamically based on the dynamic argument used in between the angle brackets.
- To code a dynamic route you would enter the following:

```
@app.route('/user/<username>')
def user(username):
    return f"Hello, {username}!"
```

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