Authenticating with Cookies



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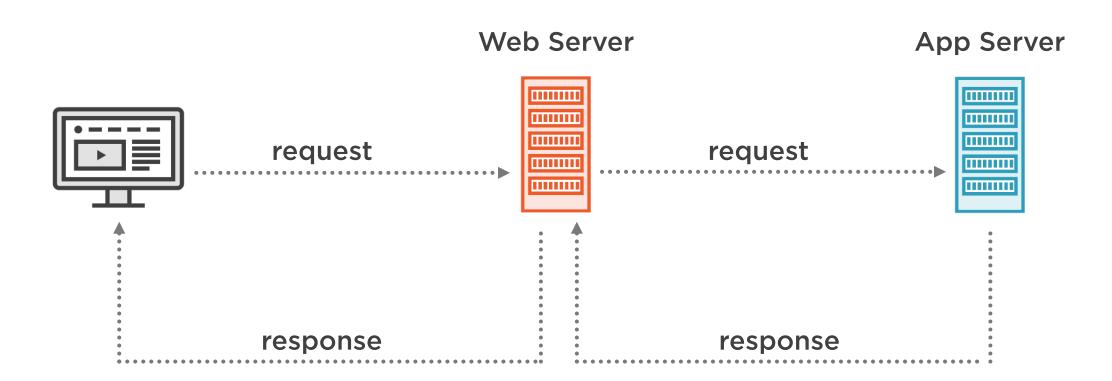


What we need to implement

Current_user "global" variable

Available in all of the views and templates

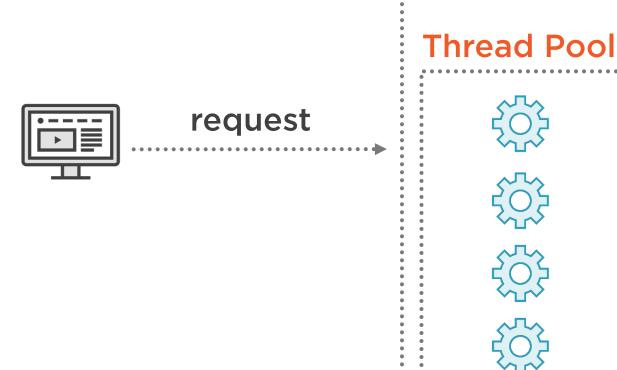






werkzeug.serving.run_simple()





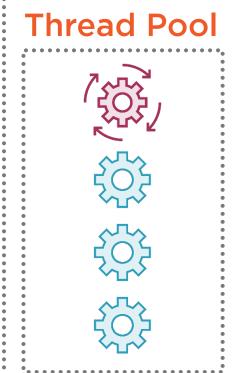


werkzeug.serving.run_simple()





request

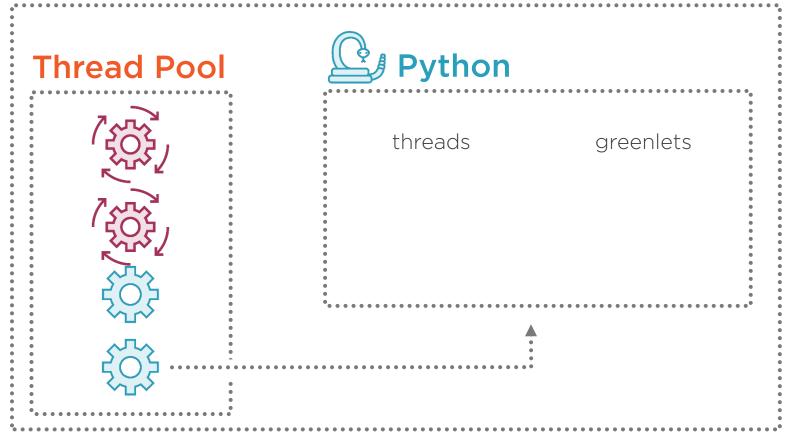




werkzeug.serving.run_simple()





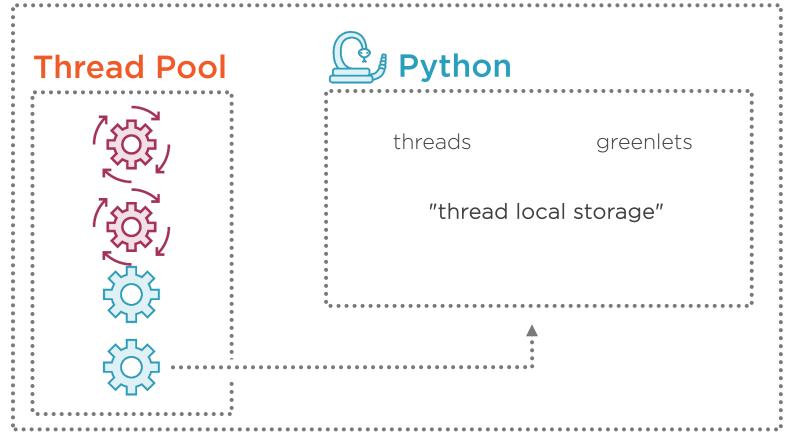




werkzeug.serving.run_simple()









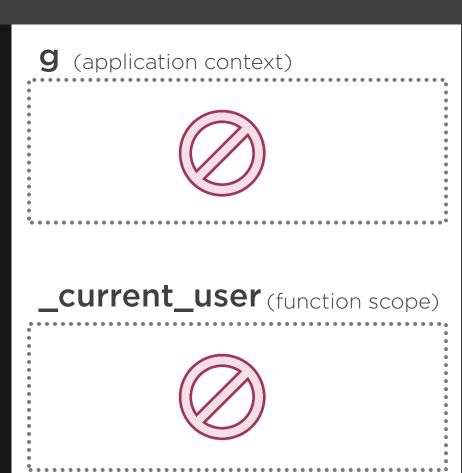
Flask Context "globals"

Objects Purpose

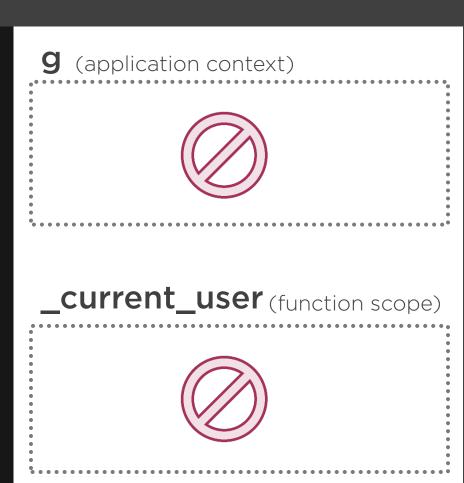
current_app	Holds the active application instance
g	Provides a temporary storage during the request lifetime
request	Holds the contents of an HTTP request
session	Dictionary for "remembering" values between requests



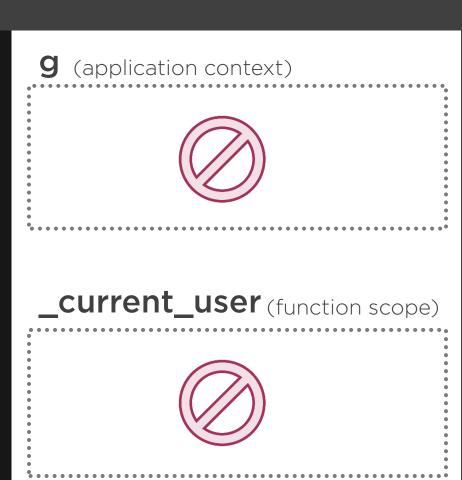
First execution of the function



First execution of the function



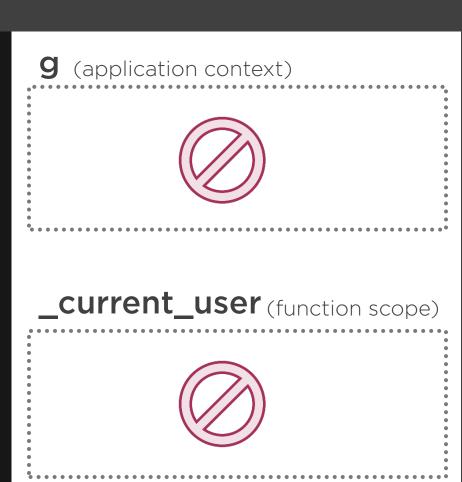
First execution of the function



First execution of the function

```
_current_user = g._current_user
if _current_user is None:
    if session.get("user_id"):
        user = User.query.get(session.get("user_id"))
        if user:
        _current_user = g._current_user = user

if _current_user is None:
    _current_user = User()
return _current_user
```



First execution of the function

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_current_user = g._current_user
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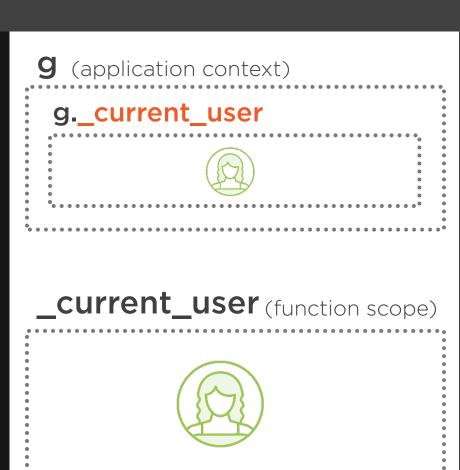
if _current_user is None:
    _current_user = User()
return _current_user
```

```
9 (application context)
 g._current_user
_current_user (function scope)
```

First execution of the function

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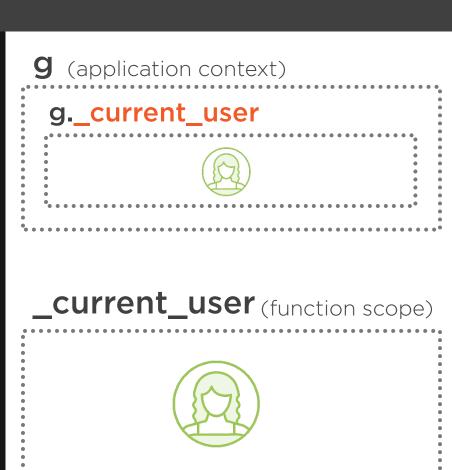
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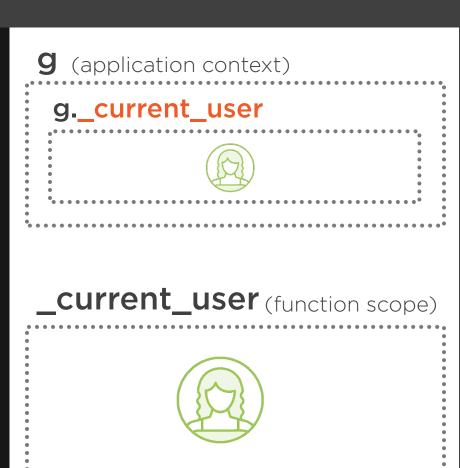
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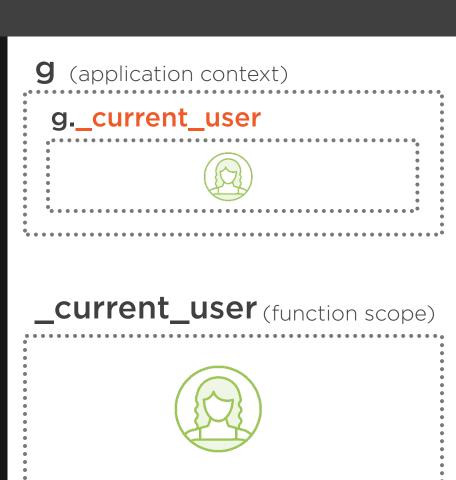
First execution of the function



Second execution of the function

```
(application context)
 g._current_user
_current_user (function scope)
```

Second execution of the function



Demo



"Remembering" with cookies



Browser





d76WfovQihEIPbf0szvFVHL4XKQ





remember_hash

pbkdf2:sha256:150000\$ACZJLTuK\$6a3e8ef330dfc3dcab637f71746c2014d88c0493f8ac4daac359a1f94771145c

id	23
username	•••
email	•••
description	•••
location	•••
password_hash	
remember_hash	pbkdf2:sha256:1 50000\$ACZJLT uK\$6a3e8ef330 dfc3dcab637f71 746c2014d88c0 493f8ac4daac3 59a1f94771145c



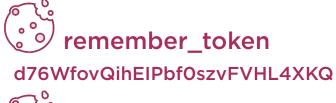
²³

^{*} The cookie data will be encrypted

Browser









23



^{*} The cookie data will be encrypted

Browser







remember_token
d76WfovQihEIPbfOszvFVHL4XKQ

user_id
23

id	23
username	
email	
description	•••
location	
password_hash	•••
remember_hash	pbkdf2:sha256:1 50000\$ACZJLT uK\$6a3e8ef330 dfc3dcab637f71 746c2014d88c0 493f8ac4daac3 59a1f94771145c



^{*} The cookie data will be encrypted



Browser









23

id	23
username	•••
email	•••
description	***
location	***
password_hash	•••
remember_hash	pbkdf2:sha256:1 50000\$ACZJLT uK\$6a3e8ef330 dfc3dcab637f71 746c2014d88c0 493f8ac4daac3 59a1f94771145c



^{*} The cookie data will be encrypted

Browser 1





Browser 2



id	23
username	
email	
description	
location	
password_hash	
remember_hash	pbkdf2:sha256:1 50000\$ACZJLT uK\$6a3e8ef330 dfc3dcab637f71 746c2014d88c0 493f8ac4daac3 59a1f94771145c



Browser 1





Browser 2





id	23
username	
email	
description	
location	
password_hash	
remember_hash	pbkdf2:sha256:1 50000\$ACZJLT uK\$6a3e8ef330 dfc3dcab637f71 746c2014d88c0 493f8ac4daac3 59a1f94771145c



Browser 1







Browser 2







id	23
username	
email	
description	
location	
password_hash	
remember_hash	pbkdf2:sha256:1 50000\$zeoltcu w\$911367b0d9a 4f0c3e5eeee0e c254a1ca5ad00 e52ee47c2c3eb 15887a5a28fe9b



Remember instance

id	1
user_id	23
remember_hash	pbkdf2:sha2 56:1



Remember *instance*

id	1
user_id	23
remember_hash	pbkdf2:sha2 56:1

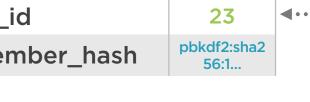


id	23
username	•••
email	
description	
location	
password_hash	



Remember instance

id	1
user_id	23
remember_hash	pbkdf2:sha2 56:1







Remember instance

id	1
user_id	23
remember_hash	pbkdf2:sha2 56:1







VWFtGuDJwiRSgcGcJNxPITE79t4



· id	23
username	
email	
description	•••
location	
password_hash	

