## **SESSION:**

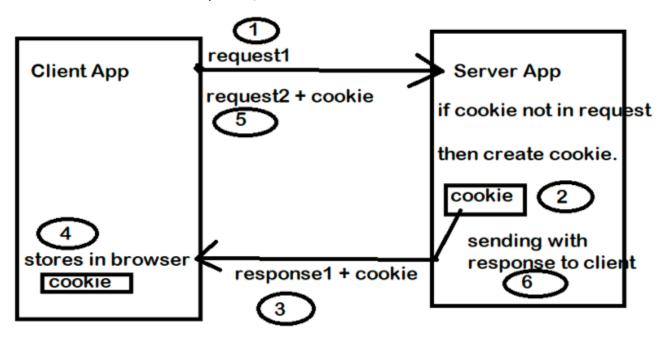
- The set of contineous requests which are performed by one client on one web application is known as "session".
- ➤ For example : Login to Logout
- > During the session, by default previous request data can not be remembered in the current request. Because we are using "http" protocol.
- ▶ http protocol is a "stateless"protocol
- ➢ Because of the stateless protocol, our web application behaves like as a stateless application
- ➤ By implementing session tracking techniques in our application we can provide "statefull" behaviour to the web application.

#### COOKIES:

- Cookies are small textual information, which are created at server side application and stored in clients computer
- Cookies transfered from server to client and client to server through the response and request objects

### How Cookie will work :

- 1. The browser sends the request to the server.
- 2. The server sends the Response along with one or more cookie to the browser.
- 3. The browser saves the cookie which sent from the server.
- 4. From now on words the browser will send this cookie to the server, every time a request is made to the server.
- 5. The browser will keep sending the cookie to the server along with each request untill the cookie expires.
- 6. When the cookie expires, it will removed from the browser.



Client and Server Apps Architecture

## Creating Cookies in Django

The set\_cookie() has these attributes:

name: It specifies the name of cookie.

value: It specifies the text or variable you want to store in the cookie.

max\_age: It is the time period of cookie in seconds.

- After the time period completes, it will expire.
- ➤ It is an optional parameter; if not present then the cookie will exist till the time browser close.

# Syntax: set\_cookie("Cookie\_Name", "Cookie\_Value", max\_age = None)

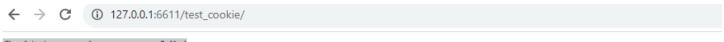
We will add this **set\_cookie()** to our view functions for creating cookies.

## For example:

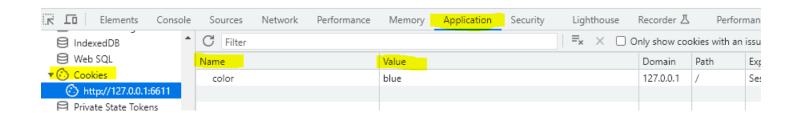
def setcookie(request):

response = HttpResponse("<h1>Cookie created now. </h1>")
resp.set\_cookie('data', 'Hello this is your Cookies', max\_age = None)
return response

- > This function will return response to the browser, and when you run it, you can check the created cookie in your browser settings.
- ➤ To see cookie in browser , press F12 in browser, Click on Application, Click on Cookies , Click on URL.



Cookie is created now successfully!



We have two types of cookies in django. They are,

- 1. Inmemory cookies
- 2. Persistence cookies

## 1. Inmemory cookies:

- ➤ The cookies which doesn't contain explict expire time are known as "immemory" cookies
- > Immemory cookies will be stored in the clients machine primary memory.
- ➤ When ever browser is closed, automatically inmemory cookies will be deleted.

### 2. Persistence cookies:

- The cookies which contains explict expire time are called "persistence cookies"
- ➤ These will be stored in the client machine hard disk. So , these will be deleted when ever expire time will be overed
- ➤ Even though we close the browser window, persistence cookies will not be deleted with out expire time is overed
- ➤ We can create and add the cookies to the response object by calling set cookie() method of HttpResponse
- > We can get the cookies from the Request object by using COOKIES attribute.
- > We can create the persistence cookies in django application as follows

```
response = HttpResponse()
response.set_cookie('cookie_name', 'cookie_value', max_age=60)
```