**Django Session**

* A session is a mechanism to store information on the server side during the interaction with the web application.
* In Django, by default session stores in the database and also allows file-based and cache based sessions.
* It is implemented via a piece of middleware and can be enabled by using the following code.
* Put **django.contrib.sessions.middleware.SessionMiddleware** in MIDDLEWARE and **django.contrib.sessions** in INSTALLED\_APPS of settings.py file.

To set and get the session in views, we can use **request.session** and can set multiple times too.

* The **class backends.base.SessionBase** is a base class of all session objects. It contains the following standard methods.

|  |  |
| --- | --- |
| **Method** | **Description** |
| \_\_getitem\_\_(key) | It is used to get session value. |
| \_\_setitem\_\_(key, value) | It is used to set session value. |
| \_\_delitem\_\_(key) | It is used to delete session object. |
| \_\_contains\_\_(key) | It checks whether the container contains the particular session object or not. |
| get(key, default=None) | It is used to get session value of the specified key. |

Let's see an example in which we will set and get session values. Two functions are defined in the views.py file.

**Django Session Example**

* The first function is used to set and the second is used to get session values.

**views.py**

from django.shortcuts import render

from django.http import HttpResponse

 def setsession(request):

    request.session['sname'] = 'abc'

    request.session['semail'] = 'abc@gmail.com'

    return HttpResponse("session is set")

def getsession(request):

    studentname = request.session['sname']

    studentemail = request.session['semail']

    return HttpResponse(studentname+" "+studentemail);

* Url mapping to call both the functions.

**urls.py**

from django.contrib import admin

from django.urls import path

from myapp import views

urlpatterns = [

    path('admin/', admin.site.urls),

    path('setsession/',views.setsession),

    path('getsession/',views.getsession),

]

**To run the server application**

python manage.py runserver

* Go to browser window and type this url http://127.0.0.1:8000
* It will shows the view action and choose the view particular action

http://127.0.0.1:8000/setsession