

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
<code>__getitem__(key)</code>	It is used to get session value.
<code>__setitem__(key, value)</code>	It is used to set session value.
<code>__delitem__(key)</code>	It is used to delete session object.
<code>__contains__(key)</code>	It checks whether the container contains the particular session object or not.
<code>get(key, default=None)</code>	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 HttpResponseRedirect

def setsession(request):

    request.session['sname'] = 'abc'

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

    return HttpResponseRedirect("session is set")

def getsession(request):

    studentname = request.session['sname']

    studentemail = request.session['semail']

    return HttpResponseRedirect(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
```