



**django**



# Django

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*Web development team -APSSDC*

# Django

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Django is a free and open source web application framework written in Python ,more than a collection of modules that make development easy

## 1.How to install Django

Pip install Django

## 2.How to create Django project

Django-admin startproject myproject

## 3.How to run project

```
python manage.py runserver
```

URL stands for Uniform Resource Locator. address of a given unique resource on the Web

a unique resource. Such resources can be an HTML page, a CSS document, an image, etc Example: <http://engineering.apssdc.in>

<https://engineering.apssdc.in> is the domain name

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Django have default server

Python server is supported static and dynamic urls

Django server port number

127.0.0.1:8000 if u change we can

Python manage.py run server port number ex:12.61.05.07

let me discuss code how to run a project and how to implement the project

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## settings.py

```
INSTALLED_APPS = [  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
    'url',  
]
```

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## url.py

```
from django.contrib import admin
from django.urls import path
from url import views

urlpatterns = [
    path('admin/', admin.site.urls),
    path('hi/', views.hi, name='hi'),
    path('hello/', views.hello, name='hello'),
    path('rollno/<int:id>', views.rollno, name='rollno'),
    path('st/<str:ld>', views.st, name='st'),
]
```

## Views.py

```
from django.shortcuts import render, redirect
from django.http import HttpResponse
def hi(request):
    return HttpResponse("""<h2>Hello
Students</h2>""")
def hello(request):
    return HttpResponse("""<h2>Hello Students
we are in Hello Function</h2>""")
def rollno(reg,id):
    txt = '<h2>This is ur id {} </h2>'.format(id)
    return HttpResponse(txt)
def st(reg,ld):
    txt = '<h2>This is ur id {} </h2>'.format(ld)
    return HttpResponse(txt)
```



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**Message-:**filling data into the various user input fields in forms,when u click on submit,

the data will be stored into the server.server will checkout the data, it will shows the alert message depends on(success,warning,info,error) then it will show on the top one-time notification is called message

How import messages

from django.contrib import messages

Types of Messages

- Constant                      Tag
- DEBUG                        debug

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- INFO info
- SUCCESS success
- WARNING warning
- ERROR error
- Message example
- `from django.contrib import messages`
- `messages.add_message(request, messages.INFO, 'Hello world.')`

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- `messages.debug(request, '%s SQL statements were executed.' % count)`
- `messages.info(request, 'Three credits remain in your account.')`
- `messages.success(request, 'Profile details updated.')`
- `messages.warning(request, 'Your account expires in three days.')`
- `messages.error(request, 'Document deleted.')`

```
<body><div class="dt">
  {% if messages %} {% for m in messages %}
    <div class="alert alert-{{m.tags}}" style="margin-top:20px;">{{ m }}</div>
  {% endfor %}{% endif %}
  <div id="login">
    <form action="{%wel%}" autocomplete="on" method='post'>
      {% csrf_token %}
      <h1>Log in</h1>
      <input id="username" name="username" required="required" type="text"
placeholder="ur name"/>
      <input id="password" name="password" required="required"
type="password" placeholder="org" />
      <input type="submit" value="Login" />
    </form></div></body>
```

# Wel.html

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```
body>
  {% if messages %}
  {% for m in messages %}
    <div class="alert alert-{{m.tags}}" style="margin-top:20px;">{{ m
  }}</div>
  {% endfor %}
  {% endif %}
  <h2 style="text-align: center; color: blue">Welcome to My Web
Site</h2>
</body>
```

# url.py

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```
from django.contrib import admin
from django.urls import path,include

urlpatterns = [
    path("",include('login_.urls')),
    path('admin/', admin.site.urls),
]
```

# Views.py

```
login.html x views.py x
1 from django.shortcuts import render
2 from django.contrib import messages
3 def account(request):
4     if(request.method=='POST'):
5         first_name=request.POST['username']
6         pass_word=request.POST['password']
7         if(first_name=='swami' and pass_word=='apssdc'):
8             messages.info(request,"login successfully")
9             return render(request,"account.html",{})
10        else:
11            messages.error(request,"invalid credentials")
12            return render(request,"login.html",{})
13        return render(request,"login.html",{})
14
15
16 def login(request):
17     return render(request,"login.html",{})
18
19
```



# Thank you