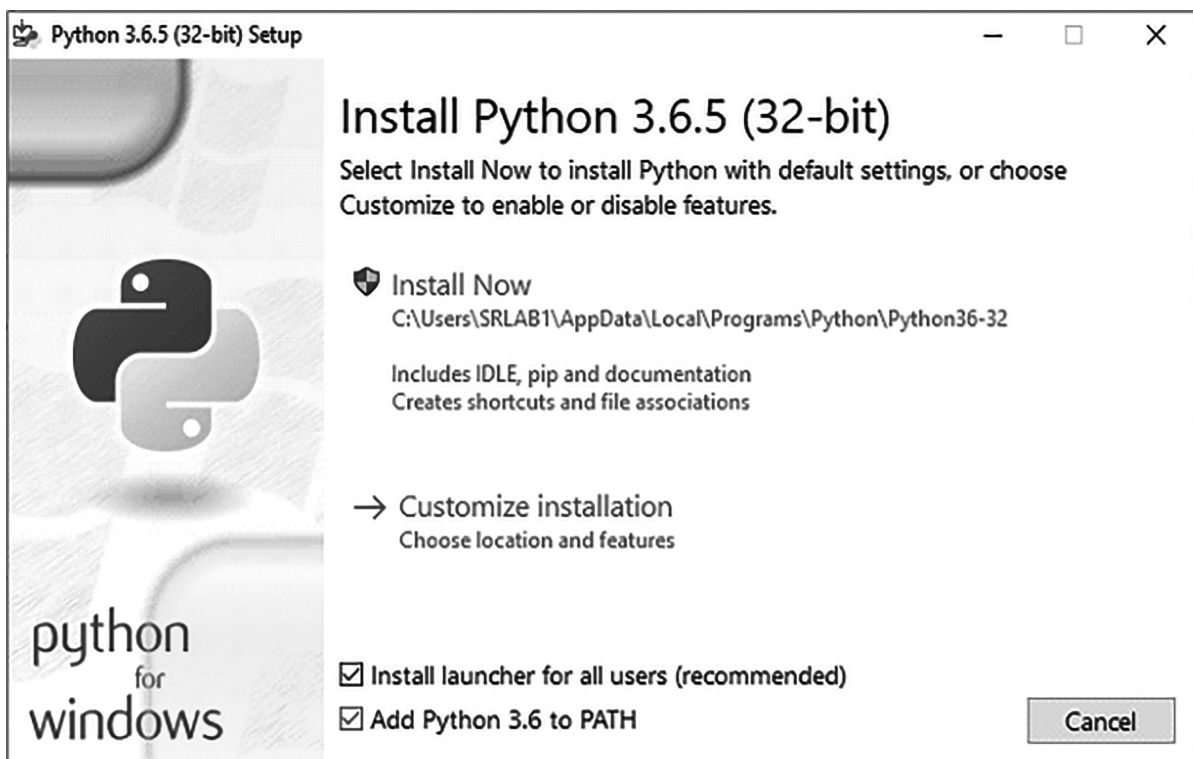


DJANGO INSTALLATION

Installation instructions and creating the Django project:

1. Install Python (only for the first time).

- (a) Go to <https://www.python.org/downloads/> and click the big yellow button that says “Download Python 3.6.5”.
- (b) Once you have downloaded the Python installer, go to your Downloads folder and double click the file “python-3.x.x.msi” to run the installer.



Make sure you have checked the **Add Python 3.6 to PATH**.

2. Install the Python Package Repository (PyPi) the *pip* tool (only for the first time).

Go to the command prompt and get back to root.

```
c:\users\preeti>cd\
```

```
c:\> python -m pip install -U pip
```

3. Install the Python Virtual Environment (only for the first time).

```
c:\> pip install virtualenv
```

```

Administrator: Command Prompt

Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\windows\system32>cd\

C:\>pip install virtualenv
Collecting virtualenv
  Downloading https://files.pythonhosted.org/packages/8f/f1/c0b069ca6cb44f9681715232e6d3d65c75866dd231c5e4a88e80a46634bb/virtualenv-16.3.0-py2.py3-none-any.whl (2.0MB)
    100% |#####| 2.0MB 1.0MB/s
Requirement already satisfied: setuptools>=18.0.0 in c:\users\preeti\appdata\local\programs\python\python37-32\lib\site-packages (from virtualenv) (39.0.1)
Installing collected packages: virtualenv
  The script virtualenv.exe is installed in 'c:\users\preeti\appdata\local\programs\python\python37-32\Scripts' which is not on PATH.
  Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed virtualenv-16.3.0
You are using pip version 10.0.1, however version 18.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\>

```

4. Create and enter a root directory for all your projects (only for the first time).

c:\>md myprojects

c:\>cd myprojects

```

Administrator: Command Prompt

C:\windows\system32>cd\

C:\>pip install virtualenv
Collecting virtualenv
  Downloading https://files.pythonhosted.org/packages/8f/f1/c0b069ca6cb44f9681715232e6d3d65c75866dd231c5e4a88e80a46634bb/virtualenv-16.3.0-py2.py3-none-any.whl (2.0MB)
    100% |#####| 2.0MB 1.0MB/s
Requirement already satisfied: setuptools>=18.0.0 in c:\users\preeti\appdata\local\programs\python\python37-32\lib\site-packages (from virtualenv) (39.0.1)
Installing collected packages: virtualenv
  The script virtualenv.exe is installed in 'c:\users\preeti\appdata\local\programs\python\python37-32\Scripts' which is not on PATH.
  Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed virtualenv-16.3.0
You are using pip version 10.0.1, however version 18.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\>md myprojects
C:\>cd myprojects
C:\myprojects>

```

5. Create a virtual environment (only for the first time).

c:\myprojects>virtualenv django

If you get inside the Django folder, you will see the following:

\Include

\Lib

\Scripts

pip-selfcheck.json

6. Install Django (only for the first time).

(django) c:\myprojects>pip install django

```

Administrator: Command Prompt
C:\windows\system32>cd\
C:\>pip install virtualenv
Collecting virtualenv
  Downloading https://files.pythonhosted.org/packages/8f/f1/c0b069ca6cb44f9681715232e6d3d65c75866dd231c5e4a88e80a46634bb/virtualenv-16.3.0-py2.py3-none-any.whl (2.0MB)
    100% |#####| 2.0MB 1.0MB/s
Requirement already satisfied: setuptools>=18.0.0 in c:\users\preeti\appdata\local\programs\python\python37-32\lib\site-packages (from virtualenv) (39.0.1)
Installing collected packages: virtualenv
  The script virtualenv.exe is installed in 'c:\users\preeti\appdata\local\programs\python\python37-32\Scripts' which is not on PATH.
  Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed virtualenv-16.3.0
You are using pip version 10.0.1, however version 18.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\>md myprojects
C:\>cd myprojects
C:\myprojects>pip install Django
  
```

```

Administrator: Command Prompt
C:\>md myprojects
C:\>cd myprojects
C:\myprojects>pip install Django
Collecting Django
  Downloading https://files.pythonhosted.org/packages/36/50/078a42b4e9bedb94efd3e0278c0eb71650ed9672cdc91bd5542953bec17f/Django-2.1.5-py3-none-any.whl (7.3MB)
    100% |#####| 7.3MB 1.6MB/s
Collecting pytz (from Django)
  Downloading https://files.pythonhosted.org/packages/61/28/1d3920e4d1d50b19bc5d24398a7cd85cc7b9a75a490570d5a30c57622d34/pytz-2018.9-py2.py3-none-any.whl (510kB)
    100% |#####| 512kB 770kB/s
Installing collected packages: pytz, Django
  The script django-admin.exe is installed in 'c:\users\preeti\appdata\local\programs\python\python37-32\Scripts' which is not on PATH.
  Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed Django-2.1.5 pytz-2018.9
You are using pip version 10.0.1, however version 18.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\myprojects>
  
```

Django gets successfully installed onto your system and is ready to use.

7. Create your Django project.

c:\myprojects>django-admin startproject testproject

```

Administrator: Command Prompt

Downloading https://files.pythonhosted.org/packages/36/50/078a42b4e9bedb94efd3e0278c0eb71650ed9672cdc91bd5542953bec17f/Django-2.1.5-py3-none-any.whl (7.3MB)
100% |████████████████████████████████████████████████████████████████████████████████| 7.3MB 1.6MB/s
Collecting pytz (from Django)
Downloading https://files.pythonhosted.org/packages/61/28/1d3920e4d1d50b19bc5d24398a7cd85cc7b9a75a490570d5a30c57622d34/pytz-2018.9-py2.py3-none-any.whl (510kB)
100% |████████████████████████████████████████████████████████████████████████████████| 512kB 770kB/s
Installing collected packages: pytz, Django
The script django-admin.exe is installed in 'c:\users\preeti\appdata\local\programs\python\python37-32\Scripts' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed Django-2.1.5 pytz-2018.9
You are using pip version 10.0.1, however version 18.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\myprojects>django-admin startproject testproject

```

The following directory structure must have been created:

```

firstpj/
manage.py
mysite/
__init__.py
settings.py
urls.py
wsgi.py

```

8. Run the server locally.

(django) c:\myprojects>cd newproject

(django) c:\myprojects\newproject>python manage.py runserver

```

Administrator: Command Prompt - python manage.py runserver

Volume in drive C is Windows8_OS
Volume Serial Number is 08B5-457F

Directory of C:\myprojects

[.]          [..]          [testproject]
0 File(s)    0 bytes
3 Dir(s)    150,740,910,080 bytes free

C:\myprojects>cd testproject

C:\myprojects\testproject>python manage.py runserver
Performing system checks...

System check identified no issues (0 silenced).

You have 15 unapplied migration(s). Your project may not work properly until you
apply the migrations for app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
January 26, 2019 - 22:38:54
Django version 2.1.5, using settings 'testproject.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.

```


If you find the output as given below, then it is a success, otherwise you need to recheck the steps

Performing system checks...

System check identified no issues (0 silenced).

Jan 26, 2019 - 22:38:54

Django version 2.1.5, using settings 'mysite.settings'

Starting development server at http://127.0.0.1:8000/

Quit the server with CTRL-BREAK.

Minimize the command prompt window.

9. Minimize the command prompt window.

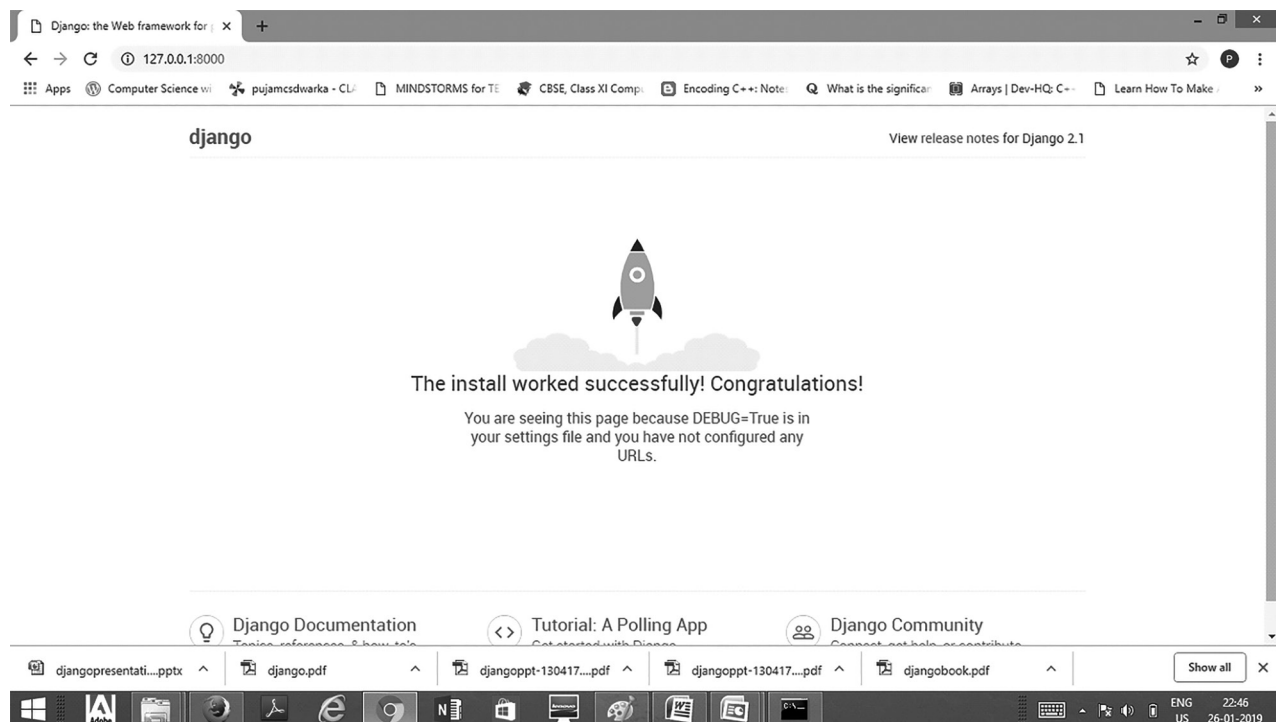
Every time you run Django, you have to run the server by typing the command:

>python manage.py runserver

Server will start working and minimize the window.

10. Run the server locally.

Type **http://127.0.0.1:8000/** with your web browser. You'll see "The install worked successfully! Congratulations!"



Every time you have to start a new project in windows, all the above steps after Django installation have to be executed again and the window is minimized, and Django server is to be kept running for all the successive projects you will develop in Django.