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Assignment: 01

USN: 01FM16MCA057

1. COMMANDS FOR INSTALLING DJANGO

hdadmin@mca43:~$ pip install django
Collecting django
  Downloading
https://files.pythonhosted.org/packages/43/e7/872bbf76aa16b7a061698d75325dac023285db33db4bda8ba8fe5d3bb356/Django-1.11.16-py2.py3-none-any.whl (7.0MB)
    100% |████████████████████████████████| 7.0MB
177kB/s
Collecting pytz (from django)
  Downloading
https://files.pythonhosted.org/packages/f8/0e/2365ddc010afb3d79147f1dd543e5ee24bf4ece58ab99b16fbb465ce6dc0/pytz-2018.7-py2.py3-none-any.whl (506kB)
    100% |████████████████████████████████| 512kB
541kB/s
Installing collected packages: pytz, django
Successfully installed django-1.11.16 pytz-2018.7

2. Installing python-django

hdadmin@mca43:~$ sudo apt-get install python-django
[sudo] password for hdadmin:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  javascript-common libjs-jquery python-django-common python-sqlparse
  python-tz
Suggested packages:
  apache2 | lighttpd | httpd bpython geoip-database-extra
  | geoip-database-contrib ipython libgdal1 python-bcrypt python-django-doc
  python-flup python-memcache python-pil python-psycopg2 python-pymysql
  python-sqlite python-yaml python-sqlparse-doc
The following NEW packages will be installed:
  javascript-common libjs-jquery python-django python-django-common

python-sqlparse python-tz
0 upgraded, 6 newly installed, 0 to remove and 25 not upgraded.
Need to get 2,638 kB of archives.
After this operation, 27.4 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python-django-common all 1:1.11.11-1ubuntu1.1 [1,521 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 python-tz all 2018.3-2 [31.6 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python-django all 1:1.11.11-1ubuntu1.1 [899 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 javascript-common all 11 [6,066 B]
Get:5 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 libjs-jquery all 3.2.1-1 [152 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 python-sqlparse all 0.2.4-0.1 [28.0 kB]
Fetched 2,638 kB in 15s (176 kB/s)
Selecting previously unselected package python-django-common.
(Reading database ... 172309 files and directories currently installed.)
Preparing to unpack .../0-python-django-common_1%3a1.11.11-1ubuntu1.1_all.deb ...
Unpacking python-django-common (1:1.11.11-1ubuntu1.1) ...
Selecting previously unselected package python-tz.
Preparing to unpack .../1-python-tz_2018.3-2_all.deb ...
Unpacking python-tz (2018.3-2) ...
Selecting previously unselected package python-django.
Preparing to unpack .../2-python-django_1%3a1.11.11-1ubuntu1.1_all.deb ...
Unpacking python-django (1:1.11.11-1ubuntu1.1) ...
Selecting previously unselected package javascript-common.
Preparing to unpack .../3-javascript-common_11_all.deb ...
Unpacking javascript-common (11) ...
Selecting previously unselected package libjs-jquery.
Preparing to unpack .../4-libjs-jquery_3.2.1-1_all.deb ...
Unpacking libjs-jquery (3.2.1-1) ...
Selecting previously unselected package python-sqlparse.
Preparing to unpack .../5-python-sqlparse_0.2.4-0.1_all.deb ...
Unpacking python-sqlparse (0.2.4-0.1) ...
Setting up libjs-jquery (3.2.1-1) ...
Setting up python-sqlparse (0.2.4-0.1) ...
Setting up python-tz (2018.3-2) ...
Processing triggers for man-db (2.8.3-2) ...
Setting up javascript-common (11) ...
Setting up python-django-common (1:1.11.11-1ubuntu1.1) ...
Setting up python-django (1:1.11.11-1ubuntu1.1) ...

3. Checking python django version

hdadmin@mca43:~/demo$ python -m django --version
1.11.16

4.Checking python django-admin version

hdadmin@mca43:~/demo$ django-admin --version
1.11.16

5. Creating project Demoa

hdadmin@mca43:~/demo$ django-admin startproject demoa
hdadmin@mca43:~/demo$ cd demoa
hdadmin@mca43:~/demo/demoa$ ls
demoa manage.py
hdadmin@mca43:~/demo/demoa$ cd demoa/
hdadmin@mca43:~/demo/demoa/demoa$ ls
__init__.py settings.py urls.py wsgi.py
hdadmin@mca43:~/demo/demoa/demoa$ cd ..
hdadmin@mca43:~/demo/demoa$ cd ..
hdadmin@mca43:~/demo$ cd demoa

6. Creating s hello startapp

hdadmin@mca43:~/demo/demoa$ python manage.py startapp hello
hdadmin@mca43:~/demo/demoa$ cd hello/
hdadmin@mca43:~/demo/demoa/hello$ ls
admin.py apps.py __init__.py migrations models.py tests.py views.py

7. In hello editing View.py

hdadmin@mca43:~/demo/demoa/hello$ gedit views.py

```
# -*- coding: utf-8 -*-
from __future__ import unicode_literals

from django.shortcuts import render

from django.http import HttpResponse

def index(request):
    return HttpResponse("Hello word")
```

8. In hello editing urls.py

hdadmin@mca43:~/demo/demoa/hello$ gedit urls.py

```
from django.conf.urls import url
from . import views

urlpatterns = [
    url(r'$^',views.index,name='index'),
]
```

9. Come back to hello

```
hdadmin@mca43:~/demo/demoa/hello$ cd ..
hdadmin@mca43:~/demo/demoa$ ls
demoa  hello  manage.py
```

8.Back to demoa project
```
hdadmin@mca43:~/demo/demoa$ cd demoa/
hdadmin@mca43:~/demo/demoa/demoa$ ls
__init__.py  __init__.pyc  settings.py  settings.pyc  urls.py  wsgi.py
```

10. In demoa editing urls.py

hdadmin@mca43:~/demo/demoa/demoa$ gedit urls.py
"""demoa URL Configuration

The `urlpatterns` list routes URLs to views. For more information please see:
    https://docs.djangoproject.com/en/1.11/topics/http/urls/
Examples:
Function views
    1. Add an import: from my_app import views
    2. Add a URL to urlpatterns: url(r'^$', views.home, name='home')
Class-based views
    1. Add an import: from other_app.views import Home
    2. Add a URL to urlpatterns: url(r'^$', Home.as_view(), name='home')
Including another URLconf
    1. Import the include() function: from django.conf.urls import url, include
    2. Add a URL to urlpatterns: url(r'^blog/', include('blog.urls'))
"""
from django.conf.urls import url, include
from django.contrib import admin

urlpatterns = [
    url(r'^admin/', admin.site.urls),
    url(r'^hello/',include('hello.urls')),
]

11. In demoa editing setting.py

hdadmin@mca43:~/demo/demoa/demoa$ gedit settings.py
"""
Django settings for demoa project.

Generated by 'django-admin startproject' using Django 1.11.16.

For more information on this file, see
https://docs.djangoproject.com/en/1.11/topics/settings/

For the full list of settings and their values, see
https://docs.djangoproject.com/en/1.11/ref/settings/
"""

```python
import os

# Build paths inside the project like this: os.path.join(BASE_DIR, ...)
BASE_DIR = os.path.dirname(os.path.dirname(os.path.abspath(__file__)))


# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/1.11/howto/deployment/checklist/

# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = 't(f&l%l1n@@1nbsccn29qk**vyh557_cehbylhx_8xt3gfk@*0'

# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True

ALLOWED_HOSTS = []


# Application definition

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

MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
]

ROOT_URLCONF = 'demoa.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [],
        'APP_DIRS': True,
```

```python
    'OPTIONS': {
        'context_processors': [
            'django.template.context_processors.debug',
            'django.template.context_processors.request',
            'django.contrib.auth.context_processors.auth',
            'django.contrib.messages.context_processors.messages',
        ],
    },
  },
]

WSGI_APPLICATION = 'demoa.wsgi.application'


# Database
# https://docs.djangoproject.com/en/1.11/ref/settings/#databases

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': os.path.join(BASE_DIR, 'db.sqlite3'),
    }
}


# Password validation
# https://docs.djangoproject.com/en/1.11/ref/settings/#auth-password-validators

AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
]


# Internationalization
# https://docs.djangoproject.com/en/1.11/topics/i18n/
```

LANGUAGE_CODE = 'en-us'

TIME_ZONE = 'UTC'

USE_I18N = True

USE_L10N = True

USE_TZ = True

Static files (CSS, JavaScript, Images)
https://docs.djangoproject.com/en/1.11/howto/static-files/

hdadmin@mca27:~/demo/demoa/demoa$ cd ..

12. Running the server

hdadmin@mca43:~/demo/demoa$ python manage.py runserver 8018
Performing system checks...

System check identified no issues (0 silenced).

You have 13 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.

December 01, 2018 - 06:36:20
Django version 1.11.16, using settings 'demoa.settings'
Starting development server at http://127.0.0.1:8018/
Quit the server with CONTROL-C.
Not Found: /
[01/Dec/2018 06:36:29] "GET / HTTP/1.1" 404 2017
Not Found: /favicon.ico
[01/Dec/2018 06:36:29] "GET /favicon.ico HTTP/1.1" 404 2068
Not Found: /favicon.ico
[01/Dec/2018 06:36:29] "GET /favicon.ico HTTP/1.1" 404 2068
[01/Dec/2018 06:37:24] "GET /hello/ HTTP/1.1" 200 10
Not Found: /favicon.ico
[01/Dec/2018 06:37:24] "GET /favicon.ico HTTP/1.1" 404 2068

localhost:8018/hello/

Hello word