FORM NO. MMEC-FRM-32 A (REV. NO. 00)

	M. M. ENGINEERING COLLEGE -	- MULLANA	LABORATORY MANUAL
MMEC	TION SHEET		
_	EXPERIMENT TITLE: NOT APPLICABL	E	
LABORATORT MANUAL NO.: MMEC-WI-BCSE-533L		ISSUE NO.: 01	ISSUE DATE: 04/07/2022
LABORATORY: Python & its framework Lab		SEMESTER: V	PAGE: 01 OF 01

MASTER LIST OF EXPERIMENT

S. No.	EXPERIMENT NO	EXPERIMENT DESCRIPTION	REV. NO.	REV. DATE	PAGE NO.
	MMEC-WI-				
1.	BCSE-533L-01	Tool Installation (Python, Virtual Environment,			
		Django) and building a simple app from scratch.			
2.	BCSE-533L-02	Demonstrate how to create a basic project using MVT			
		in Django.			
3.	BCSE-533L-03	Demonstrate how to activate & use Django's Admin			
		module (interface) and to perform admin related tasks.			
4.	BCSE-533L-04	Develop a program to add Site Header, Site Title,			
_	D CCE 5001 05	Index Title in a Django Project.			
5.	BCSE-533L-05	Develop program to demonstrate adding tags using Django-Taggit.			
6.	BCSE-533L-06	Develop program to create a simple view for a web			
		browser.			
7.	BCSE-533L-07	Create a Python module called a URLconf and design			
		URLs for an application. Like a table of contents for your			
		app, it contains a simple mapping between URL patterns			
		and your views.			
8.	BCSE-533L-08	Develop program to generate forms from existing models			
		and use those forms to perform CRUD operations on data.			
9.	BCSE-533L-09	Develop program to send simple emails to the registered			
		users of your Django application.			
10.	BCSE-533L-10	Demonstrate how to integrate Django with Reactjs using			
		Django REST Framework.			
		List of Projects			
11.	BCSE-533L-11	Virtual Community			
	(Project-01)				
12.	BCSE-533L-12	Blog Application			
	(Project-02)				

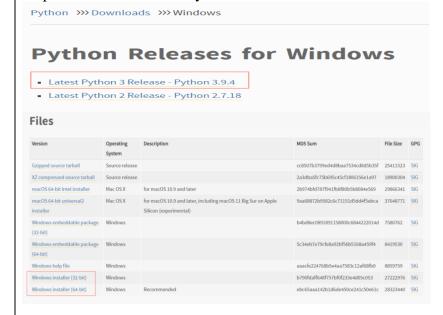
PREPARED BY: DR. RAJEEV GUPTA	APPROVED BY: HOD	P a g e 1
	ATROVED DT. HOD	I age I

	M. M. ENGINEERING COLLEGE -	- MULLANA	LABORATORY	
MMEC			MANUAL	
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Tool Installation (Python, Virtual Environment, Django) and			
	building a simple app from scratch.			
EXPERIMENT NO.: MMEC-WI-BCSE-533L-01 ISSUE NO.: 01 ISSUE DATE: 04/07/20			ISSUE DATE: 04/07/2022	
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE			DEPTT.: CSE	
LABORATOR	Y: Python & its Framework Lab	SEMESTER: V	PAGE: 01 OF 04	

Aim: Tool Installation (Python, Virtual Environment, Django) and building a simple app from scratch.

PYTHON INSTALLATION:

Step 1: Select Version of Python to download Full Installer and install.



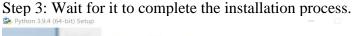
Step 2: Download Python Executable Installer and install it.



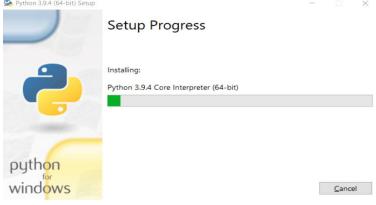
Th. /	A /F		ı
1 /	N /	м	۰
	v	. איו	,

MMEC	M. M. ENGINEERING COLLEGE	– MULLANA	LABORATORY MANUAL
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET		
	EXPERIMENT TITLE: Tool Installation building a simple app from scratch.	(Python, Virtual	Environment, Django) and
EXPERIMENT NO.: MMEC-WI-BCSE-533L-01 ISSUE NO.: 01 ISSUE DATE: 04/07/20			ISSUE DATE: 04/07/2022
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE			DEPTT.: CSE

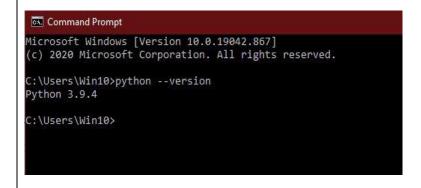
SEMESTER: V PAGE: 02 OF 04



LABORATORY: Python & its Framework Lab



_Step 4: Verification of installation of python in Windows.



SETTING VIRTUAL ENVIRONMENT:



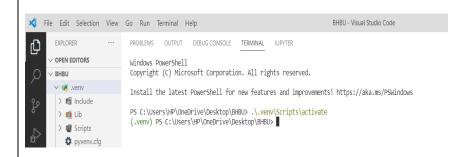
MMEC

M. M. ENGINEERING COLLEGE – MULLANA	LABORATORY
	MANUAL

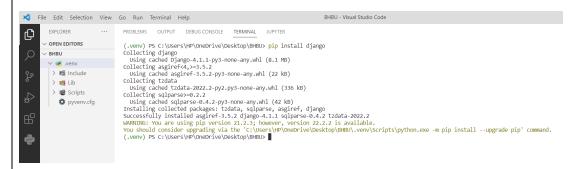
PRACTICAL EXPERIMENT INSTRUCTION SHEET

EXPERIMENT TITLE: Tool Installation (Python, Virtual Environment, Django) and building a simple app from scratch.

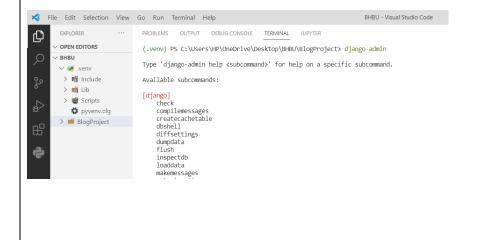
EXPERIMENT NO.: MMEC-WI-BCSE-533L-01	ISSUE NO.: 01	ISSUE DATE: 04/07/2022
REV. DATE: NA	REV. NO.: 00	DEPTT.: CSE
LABORATORY: Python & its Framework Lab	SEMESTER: V	PAGE: 03 OF 04



DJANGO INSTALLATION:

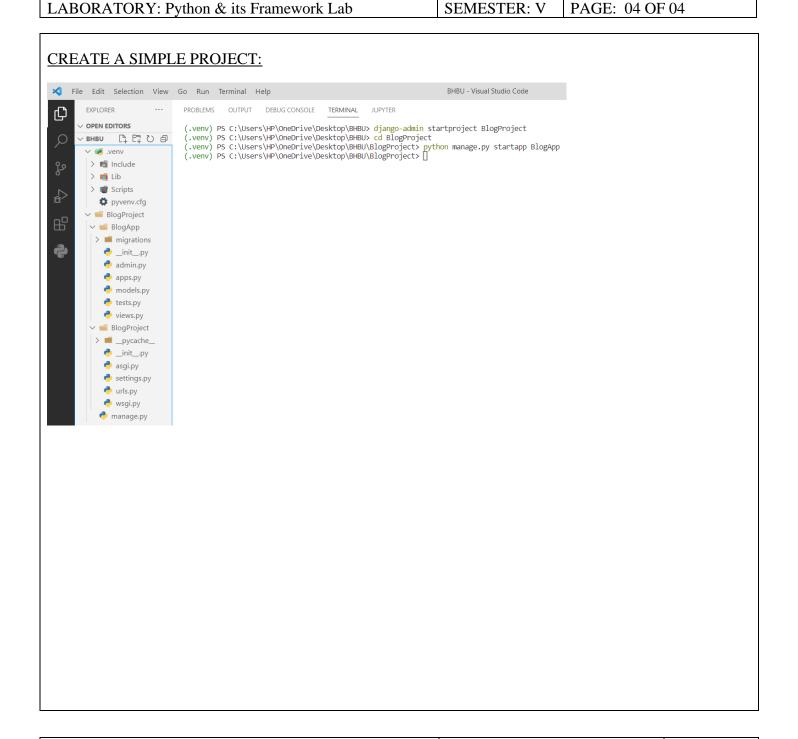


VERIFICATION OF DJANGO:



MN

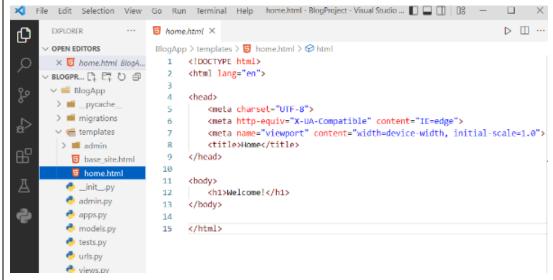
MMEC	M. M. ENGINEERING COLLEGE	– MULLANA	LABORATORY MANUAL
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET		
	EXPERIMENT TITLE: Tool Installation building a simple app from scratch.	(Python, Virtual	Environment, Django) and
EXPERIMENT NO.: MMEC-WI-BCSE-533L-01 ISSUE NO.: 01 ISSUE DATE: 04/07/2022			ISSUE DATE: 04/07/2022
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE			DEPTT.: CSE
LADODATODY D. 4. 0.4 E 1.1.1 GEMEGTED V. DAGE 04 OF 04			DACE, 04 OF 04



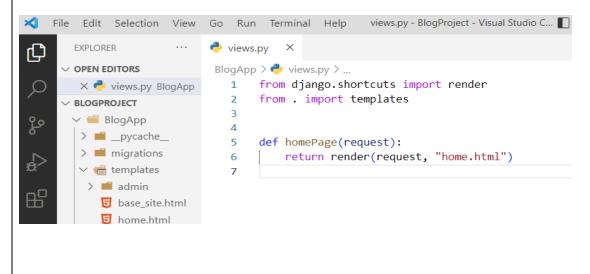
MMEC	M. M. ENGINEERING COLLEGE -	- MULLANA	LABORATORY MANUAL	
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Demonstrate how to create a basic project using MV Django.			
EXPERIMENT NO.: MMEC-WI-BCSE-533L-02 ISS		ISSUE NO.: 01	ISSUE DATE: 04/07/2022	
REV. DATE: NA		REV. NO.: 00	DEPTT.: CSE	
LABORATOR	Y: Python & its Framework Lab	SEMESTER: V	PAGE: 01 OF 03	

Aim: Demonstrate how to create a basic project using MVT in Django.

Step 1: Create a basic HTML file under template folder.



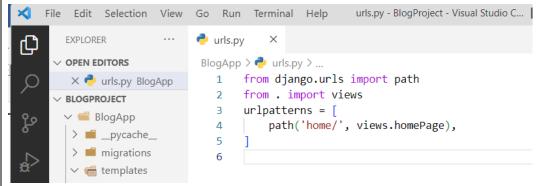
Step 2: Navigate to the 'views.py' file in the 'BlogApp' directory. Define a function 'homePage', it will render an HTML file called 'home.html'.



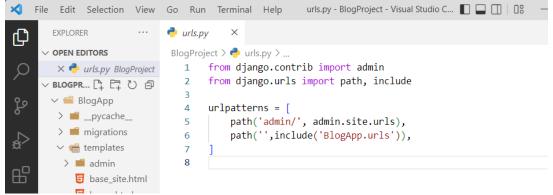
7. /		
	н	
1 7 1	111	•

MMEC	M. M. ENGINEERING COLLEGE	– MULLANA	LABORATORY MANUAL	
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Demonstrate how to create a basic project using Django.			
EXPERIMENT	NO.: MMEC-WI-BCSE-533L-02	ISSUE NO.: 01	ISSUE DATE: 04/07/2022	
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE		DEPTT.: CSE		
LABORATOR	Y: Python & its Framework Lab	SEMESTER: V	PAGE: 02 OF 03	

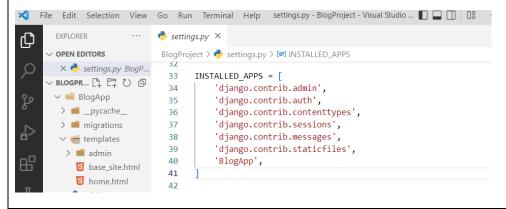
Step 3: Inside BlogApp/urls.py, include a URL pattern for view function.



Step 4: Inside BlogProject/urls.py, include a URL configuration for the BlogApp.



Step 5: Register App 'BlogApp' in module BlogProject/settings.py under 'INSTALLED APPS'.



PREPARED BY: DR. RAJEEV GUPTA

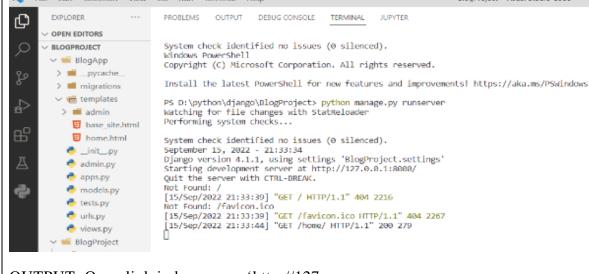
APPROVED BY: HOD

Page | 7

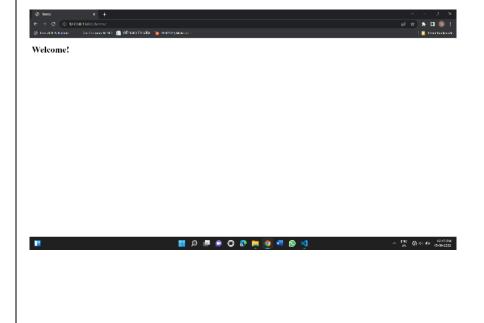
M

MMEC	M. M. ENGINEERING COLLEGE – MULLANA		LABORATORY MANUAL	
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET EXPERIMENT TITLE: Demonstrate how to create a basic project using MVT is Django.			
EXPERIMENT	EXPERIMENT NO.: MMEC-WI-BCSE-533L-02 ISSUE NO.: 01 ISSUE DATE: 04/07/2			
REV. DATE: N	V. DATE: NA REV. NO.: 00 DEPTT.: CSE			
LABORATOR	Y: Python & its Framework Lab	SEMESTER: V	PAGE: 03 OF 03	





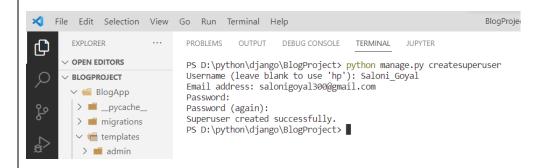
OUTPUT: Open link in browser - 'http://127



MMEC	M. M. ENGINEERING COLLEGE -	- MULLANA	LABORATORY MANUAL	
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Demonstrate how to activate & use Django's Admin module (interface) and to perform admin related tasks.			
EXPERIMENT	ERIMENT NO.: MMEC-WI-BCSE-533L-03 ISSUE NO.: 01 ISSUE DATE: 04/07/2022			
REV. DATE: N	REV. DATE: NA REV. NO.: 00 DEPTT.: CSE			
LABORATOR	ORATORY: Python & its Framework Lab SEMESTER: V PAGE: 01 OF 02			

<u>Aim:</u> Demonstrate how to activate & use Django's Admin module (interface) and to perform admin related tasks.

Step 1: Create superuser using 'python manage.py createsuperuser'.

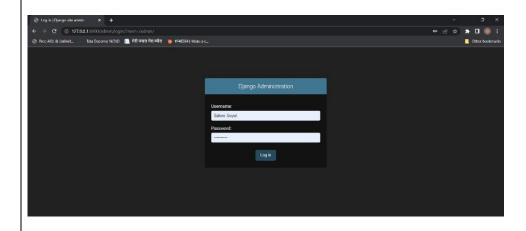


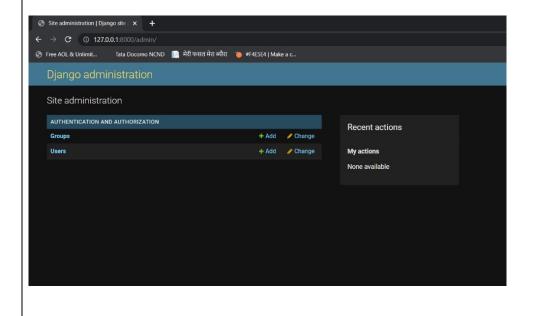
Step 2: In terminal, run server using 'python manage.py runserver' command.



MMEC	M. M. ENGINEERING COLLEGI	E – MULLANA	LABORATORY MANUAL
MINIEC	ON SHEET		
	EXPERIMENT TITLE: Demonstrate ho	w to activate & use	Django's Admin module
	(interface) and to perform admin related tasks.		
EXPERIMENT NO.: MMEC-WI-BCSE-533L-03 ISSUE NO.: 01		ISSUE NO.: 01	ISSUE DATE: 04/07/2022
REV. DATE: NA		REV. NO.: 00	DEPTT.: CSE
LABORATORY: Python & its Framework Lab		SEMESTER: V	PAGE: 02 OF 02

Step 3: Login using username and password.



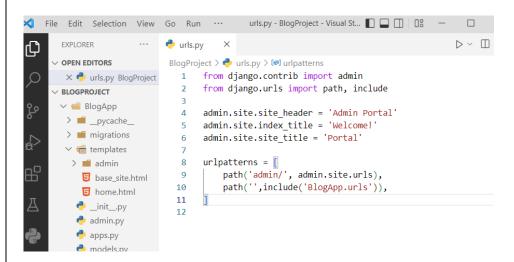


M. M. ENGINEERING COLLEGE – MULLAN			LABORATORY	
MMEC			MANUAL	
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Develop a program to add Site Header, Site Title, Index Title			
	in a Django Project.			
EXPERIMENT	EXPERIMENT NO.: MMEC-WI-BCSE-533L-04 ISSUE NO.: 01 ISSUE DATE: 04/07		ISSUE DATE: 04/07/2022	
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE			DEPTT.: CSE	
LABORATOR	LABORATORY: Python & its Framework Lab SEMESTER: V PAGE: 01 OF 01			

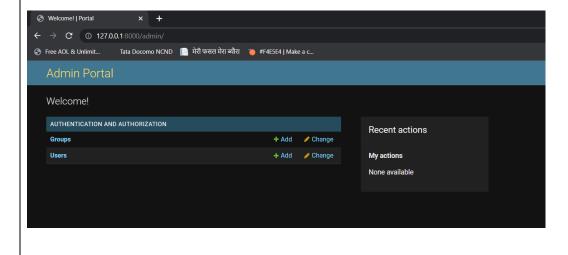
Aim: Develop a program to add Site Header, Site Title, Index Title in a Django Project.

Follow the steps-1 to 3 of Exp.-3 and adding Site Header, Site Title and Index Title to Django Admin Portal.

Step 4: Inside BlogProject/urls.py, add the following code.



OUTPUT: Open link in browser – 'http://127.0.0.1:8000/admin/'



MMEC	M. M. ENGINEERING COLLEC	GE – MULLANA	LABORATORY MANUAL	
MMEC PRACTICAL EXPERIMENT INSTRUCTION SHEET EXPERIMENT TITLE: Develop program to demonstrate adding tags using Djan				
EXPERIMENT NO.: MMEC-WI-BCSE-533L-05 ISSUE NO.: 01		ISSUE DATE: 04/07/2022		
REV. DATE: NA REV. NO.: 00 DEPT		DEPTT.: CSE		
LABORATORY: Python & its Framework Lab SE		SEMESTER: V	PAGE: 01 OF 02	

Aim: Develop program to demonstrate adding tags using Django-Taggit.

Step 1: Installing django-taggit.

```
S C:\Users\HP\OneDrive\Desktop\djjjjjjj\URLconf> pip install django-taggit
WARNING: Ignoring invalid distribution -jango (c:\users\hp\appdata\local\programs\python\python39\lib\site-packages)
WARNING: Ignoring invalid distribution -jango (c:\users\hp\appdata\local\programs\python\python39\lib\site-packages)
URRING: Ignoring invalid distribution -jango (c:\users\hp\appdata\local\programs\python\python39\lib\site-packages)
USERCIANG (c:\users\hp\appdata\local\programs\python\python39\lib\site-packages)
USERCIANG (c:\users\hp\appdata\local\programs\python\python39\lib\site-packages (from django-taggit)
USERCIANG (c:\users\hp\appdata\local\programs\python\python39\lib\site-packages (from Django>=3.2-vdjango-taggit)
USERCIANG (from Django>=3.2-vdjango-taggit)
USERCIANG (from Django>=3.2-vd)
U
```

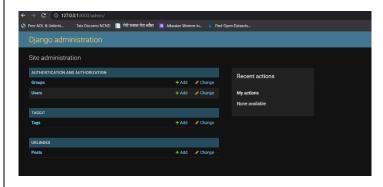
Step 2: ADD it to Main Project's settings

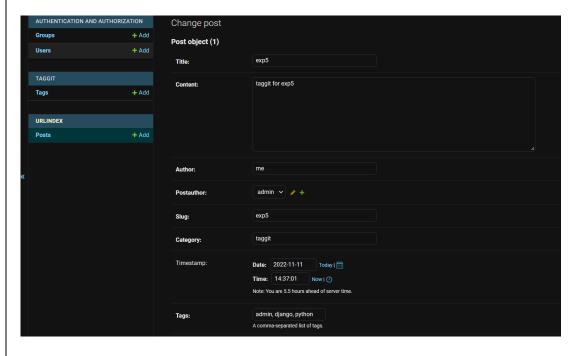
```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'URLindex',
    'taggit'
]
```

Step 3: Changes To models.py file.

MMEC	M. M. ENGINEERING COLLEG	E – MULLANA	LABORATORY MANUAL	
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Develop program to demonstrate adding tags using Django-			
	Taggit.			
EXPERIMENT NO.: MMEC-WI-BCSE-533L-05 ISSUE NO.: 01 ISSUE DATE: 04/0		ISSUE DATE: 04/07/2022		
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE		DEPTT.: CSE		
LABORATORY: Python & its Framework Lab SEMESTER: V		SEMESTER: V	PAGE: 02 OF 02	

Step 4: Run the following command 'python manage.py runserver'.



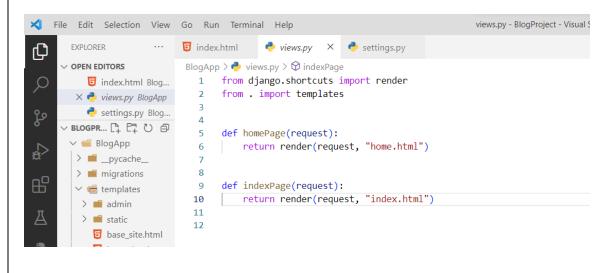


	M. M. ENGINEERING COLLEG	E – MULLANA	LABORATORY	
MMEC			MANUAL	
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Develop program to create a simple view for a web browser.			
EXPERIMENT	NO.: MMEC-WI-BCSE-533L-06	ISSUE NO.: 01	ISSUE DATE: 04/07/2022	
REV. DATE: N	VA.	REV. NO.: 00	DEPTT.: CSE	
LABORATORY: Python & its Framework Lab		SEMESTER: V	PAGE: 01 OF 02	

Aim: Develop program to create a simple view for a web browser.

Step 1: Create a HTML CSS web view.

Step 2: Navigate to the 'views.py' file in the 'BlogApp' directory. Define a function 'indexPage', it will render an HTML file called 'index.html'.



	M. M. ENGINEERING COLLEGE – MULLANA		LABORATORY
MMEC			MANUAL
MMEC PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Develop progr	am to create a simple	e view for a web browser.
EXPERIMENT	NO.: MMEC-WI-BCSE-533L-06	ISSUE NO.: 01	ISSUE DATE: 04/07/2022
REV. DATE: N	VA.	REV. NO.: 00	DEPTT.: CSE
LABORATORY: Python & its Framework Lab		SEMESTER: V	PAGE: 02 OF 02

Step 3: Inside BlogApp/urls.py, include a URL pattern for view function. 🔾 File Edit Selection View Go Run Terminal Help urls.py - BlogProject - Visual Studio Code EXPLORER ... 5 index.html ✓ OPEN EDITORS BlogApp > 🤚 urls.py > ... 1 from django.urls import path index.html Blog... from django.uris import path
from .import views
urlpatterns = [
 path('saloni/', views.indexPage),
 path('home/', views.homePage),
] X 👶 urls.py BlogApp 🏓 settings.py Blog... ➤ BLOGPROJECT

➤ ■ BlogApp

> ■ _pycache_

> ■ migrations √

√

milder

m OUTPUT: Open link in browser – 'http://127.0.0.1:8000/saloni/' Tata Docomo NCND 📗 मेरी फसल मेरा ब्यौरा 🍗 #F4E5E4 | Make a c.. Saloni Goyal I'm a passionate Software Developer from Kurukshetra Home About Resume Blog Portfolio Contact 🔡 🔎 🔎 📵 🔘 🛜 🐚 🤘 🥮 🔌

	M. M. ENGINEERING COLLEGE -	- MULLANA	LABORATORY	
MMEC			MANUAL	
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Create a Python module called a URLconf and design URLs for an			
	application. Like a table of contents for your app, it contains a simple mapping between			
	URL patterns and your views.			
EXPERIMENT	ENT NO.: MMEC-WI-BCSE-533L-07 ISSUE NO.: 01 ISSUE DATE: 04/07/202		ISSUE DATE: 04/07/2022	
REV. DATE: NA REV. NO.: 00		REV. NO.: 00	DEPTT.: CSE	
LABORATOR'	ABORATORY: Python & its Framework Lab SEMESTER: V PAGE: 01 OF 04		PAGE: 01 OF 04	

<u>Aim:</u> Create a Python module called a URLconf and design URLs for an application. Like a table of contents for your app, it contains a simple mapping between URL patterns and your views.

Step 1: Register the app in setings.py file.

```
ALLOWED_HOSTS = []

ALLOWED_HOSTS = []

Application definition

INSTALLED_APPS = [

'django.contrib.admin',

'django.contrib.auth',

'django.contrib.contenttypes',

'django.contrib.sessions',

'django.contrib.messages',

'django.contrib.staticfiles',

'BlogApp',
```

Step 2: Create a basic HTML file under template folder.

LABORATORY: Python & its Framework Lab

	7 /		
		I H	•
TAT	TAT	انالانا	v

MMEC	M. M. ENGINEERING COLLEGE -	- MULLANA	LABORATORY MANUAL		
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET				
	EXPERIMENT TITLE: Create a Python module called a URLconf and design URLs for an				
	application. Like a table of contents for your app, it contains a simple mapping between				
	URL patterns and your views.				
EXPERIMENT	RPERIMENT NO.: MMEC-WI-BCSE-533L-07 ISSUE NO.: 01 ISSUE DATE: 04/07/202				
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE			DEPTT.: CSE		

SEMESTER: V

PAGE: 02 OF 04

```
BlogApp > templates > 🥫 index.html > ...
      k!DOCTYPE html>
      <html lang="en">
          <meta charset="UTF-8">
          <meta http-equiv="X-UA-Compatible" content="IE=edge">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>Index Page</title>
          <h1>This is index page</h1>
```

```
BlogApp > templates > ⑤ home.html > ۞ html
       <!DOCTYPE html>
       <html lang="en">
           <meta charset="UTF-8">
           <meta http-equiv="X-UA-Compatible" content="IE=edge">
           <meta name="viewport" content="width=device-width, initial-scale=1.0">
           <title>Home</title>
      </head>
           <h1>Welcome!</h1>
 12
 15
       </html>
```

	M. M. ENGINEERING COLLEGE -	- MULLANA	LABORATORY MANUAL		
MMEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET				
	EXPERIMENT TITLE: Create a Python module called a URLconf and design URLs for an				
	application. Like a table of contents for your app, it contains a simple mapping between				
	URL patterns and your views.				
EXPERIMENT	EXPERIMENT NO.: MMEC-WI-BCSE-533L-07 ISSUE NO.: 01 ISSUE DATE: 04/07/2		ISSUE DATE: 04/07/2022		
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE		DEPTT.: CSE			
LABORATOR	BORATORY: Python & its Framework Lab SEMESTER: V PAGE: 03 OF 04				

Step 3: Navigate to the 'views.py' file in the 'URLindex' directory. Define a function 'homePage', it will render an HTML file called 'home.html'; 'indexPage' it will render an HTML file called 'index.html' and 'aboutPage' it will render an HTML file called 'about.html'.

```
from django.shortcuts import render
from . import templates

def homePage(request):
    return render(request, "home.html")

def indexPage(request):
    return render(request, "index.html")

def aboutPage(request):
    return render(request, "about.html")
```

Step 4: Inside URLindex/urls.py, include a URL pattern for view function.

```
from django.urls import path
from . import views
urlpatterns = [
   path('', views.indexPage),
   path('home/', views.homePage),
   path('about/', views.aboutPage),
   path('index/', views.indexPage),
```

LABORATORY: Python & its Framework Lab

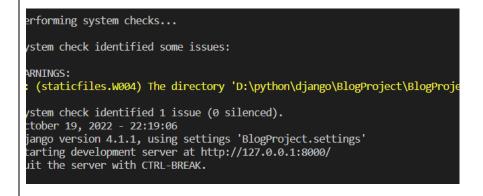
7			
11		/	┥ 때
_ 1 ▼	111		

	M. M. ENGINEERING COLLEGE -	- MULLANA	LABORATORY
MMEC			MANUAL
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET		
	EXPERIMENT TITLE: Create a Python module called a URLconf and design URLs for an		
	application. Like a table of contents for your app, it contains a simple mapping between		
	URL patterns and your views.		
EXPERIMENT	XPERIMENT NO.: MMEC-WI-BCSE-533L-07 ISSUE NO.: 01 ISSUE DATE: 04/07/202		
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE		DEPTT.: CSE	

SEMESTER: V

PAGE: 04 OF 04

Step 5: In terminal, run server using 'python manage.py runserver' command.



OUTPUT: Open link in browser – 'http://127.0.0.1:8000/'





Welcome!

	M. M. ENGINEERING COLLEGE	– MULLANA	LABORATORY		
MMEC			MANUAL		
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET				
	EXPERIMENT TITLE: Develop program to generate forms from existing models and use				
	those forms to perform CRUD operations on data.				
EXPERIMENT NO.: MMEC-WI-BCSE-533L-08 ISSUE NO.: 01 ISSUE DATE:		ISSUE DATE: 04/07/2022			
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE			DEPTT.: CSE		
LABORATORY: Python & its Framework Lab SEMESTER: V		SEMESTER: V	PAGE: 01 OF 04		

Aim: Develop program to generate forms from existing models and use those forms to perform CRUD operations on data.

Step 1: Create model in models.py in App.

```
from django.db import models

class ShashankModel(models.Model):

# fields of the model
name = models.CharField(max_length=200,default='name')
title = models.CharField(max_length=200)
description = models.TextField()

# renames the instances of the model
# with their title name
def __str__(self):
    return self.title
```

Step 2: Create forms in forms.py in App.

```
from django import forms

from .models import ShashankModel

class ShashankForm(forms.ModelForm):

    class Meta:
        model = ShashankModel
        fields = '__all__'
```

	M. M. ENGINEERING COLLEGE -	- MULLANA	LABORATORY MANUAL		
MMEC	MMEC PRACTICAL EXPERIMENT INSTRUCTION SHEET				
	EXPERIMENT TITLE: Develop program to generate forms from existing models and use				
	those forms to perform CRUD operations on data.				
EXPERIMENT NO.: MMEC-WI-BCSE-533L-08 ISSUE NO.: 01 ISSUE DATE: 04/0		ISSUE DATE: 04/07/2022			
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE			DEPTT.: CSE		
LABORATORY: Python & its Framework Lab SEMESTER: V		SEMESTER: V	PAGE: 02 OF 04		

Step 3: Create views in views.py in App.

```
from .forms import ShashankForm
from django.shortcuts import get_object_or_404,render,HttpResponseRedirect
from .models import ShashankModel
from . import templates
def homePage(request):
   return render(request, "home.html")
def indexPage(request):
   return render(request, "index.html")
def aboutPage(request):
   return render(request, "about.html")
def create_view(request):
   context = {}
    form = ShashankForm(request.POST or None, request.FILES or None)
   if form.is_valid():
        form.save()
    context['form'] = form
   return render(request, "create_view.html", context)
def update_view(request, id):
   context = {}
   obj = get_object_or_404(ShashankModel, id=id)
   form = ShashankForm(request.POST or None, instance=obj)
   if form.is_valid():
       form.save()
       return HttpResponseRedirect('/list')
   context["form"] = form
   return render(request, "update_view.html", context)
def list_view(request):
   context ={}
   context["dataset"] = ShashankModel.objects.all()
   return render(request, "list_view.html", context)
def delete_view(request, id):
   context ={}
   obj = get_object_or_404(ShashankModel, id = id)
   if request.method =="POST":
       obj.delete()
       return HttpResponseRedirect("/")
    return render(request, "delete_view.html", context)
```

	M. M. ENGINEERING COLLEGE -	- MULLANA	LABORATORY	
MMEC			MANUAL	
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Develop program to generate forms from existing models and use			
	those forms to perform CRUD operations on data.			
EXPERIMENT	NO.: MMEC-WI-BCSE-533L-08	ISSUE NO.: 01	ISSUE DATE: 04/07/2022	
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE			DEPTT.: CSE	
LABORATOR	Y: Python & its Framework Lab	SEMESTER: V	PAGE: 03 OF 04	

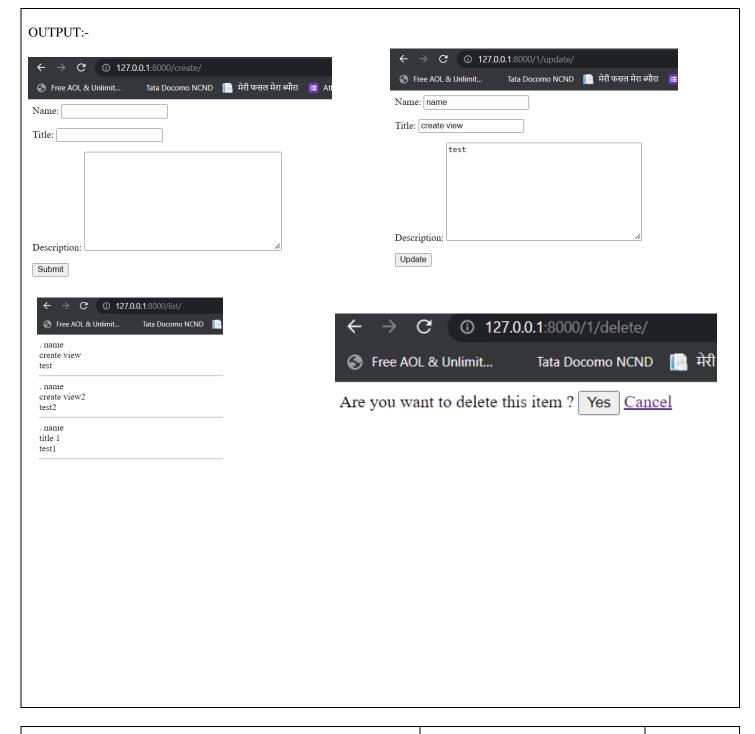
Step 4: Create html files in templates in App.

```
<div class="main">
    {% for data in dataset %}.
    {{ data.name }} < br />
    {{ data.title }} < br />
    {{ data.description }} < br />
    <hr />
    {% endfor %}
</div>
```

Step 5: Add path in urls.py files in App.

```
from django.urls import path
from . import views
urlpatterns = [
    path('', views.indexPage),
    path('home/', views.homePage),
    path('about/', views.aboutPage),
    path('index/', views.indexPage),
    path('create/', views.create_view),
    path('<id>/update/', views.update_view),
    path('list/', views.list_view),
    path('<id>/delete/', views.delete_view),
]
```

M. M. ENGINEERING COLLEGE - MULLANA LABORATORY **MANUAL MMEC** PRACTICAL EXPERIMENT INSTRUCTION SHEET EXPERIMENT TITLE: Develop program to generate forms from existing models and use those forms to perform CRUD operations on data. EXPERIMENT NO.: MMEC-WI-BCSE-533L-08 ISSUE NO.: 01 ISSUE DATE: 04/07/2022 REV. DATE: NA REV. NO.: 00 **DEPTT.: CSE** LABORATORY: Python & its Framework Lab SEMESTER: V PAGE: 04 OF 04



	M. M. ENGINEERING COLLEGE – MULLANA		LABORATORY	
MMEC			MANUAL	
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Develop program to send simple emails to the registered users of			
	your Django application.			
EXPERIMENT NO.: MMEC-WI-BCSE-533L-09 ISSUE NO.: 01 ISSUE DATE: 04/07/2		ISSUE DATE: 04/07/2022		
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE		DEPTT.: CSE		
LABORATORY: Python & its Framework Lab SEMESTER: V PAGE: 01		PAGE: 01 OF 02		

Aim: Develop program to send simple emails to the registered users of your Django application.

Step 1: In settings.py, add the following code.

Step 2: In views.py, add the following code.

```
from django.shortcuts import render
from URLconf.settings import EMAIL_HOST_USER
from . import forms
from django.core.mail import send_mail

def feedback(request):
    sub = forms.Feedback()
    if request.method == 'POST':
        sub = forms.Feedback(request.POST)
        subject = 'Welcome to Rucler Technologies'
        message = 'Good Efforts and Hope you are enjoying your Work'
        recepient = str(sub['Email'].value())
        send_mail(subject,
        message, EMAIL_HOST_USER, [recepient], fail_silently = False)
        return render(request, 'success.html', {'recepient': recepient})
        return render(request, 'index.html', {'form':sub})
```

MMEC	M. M. ENGINEERING COLLEGE	– MULLANA	LABORATORY MANUAL	
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Develop program to send simple emails to the registered us			
	your Django application.			
EXPERIMENT NO.: MMEC-WI-BCSE-533L-09 ISSUE NO.: 01 ISSUE DATE: 0		ISSUE DATE: 04/07/2022		
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE			DEPTT.: CSE	
LABORATORY: Python & its Framework Lab SEMESTI		SEMESTER: V	PAGE: 02 OF 02	

Step 3: Send the email.

Feedback Form

Customer Feedback Details

Email: salonigoyal300@gmail.com

Submit

OUTPUT:

email sent successfully to: {{ recepient }}

MMEC	M. M. ENGINEERING COLLEGE – MULLANA		LABORATORY MANUAL	
MINIEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Demonstrate how to integrate Django with Reactjs using Django			
	REST Framework.			
EXPERIMENT NO.: MMEC-WI-BCSE-533L-10 ISSUE NO.: 01 ISSUE DATE: 04/07/20		ISSUE DATE: 04/07/2022		
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE			DEPTT.: CSE	
LABORATORY: Python & its Framework Lab SEMESTER: V PAGE: 01 OF 05		PAGE: 01 OF 05		

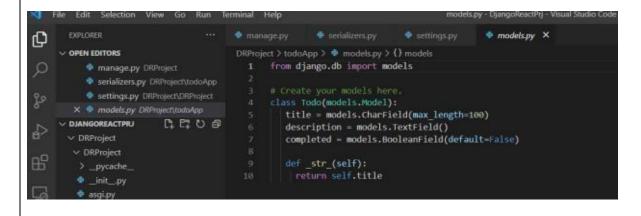
Aim: Demonstrate how to integrate Django with Reactis using Django REST Framework.

Step 1:- Install pipenv using pip command.

```
Command Prompt
ticrosoft Windows [Version 10.0.19043.1052]
(c) Microsoft Corporation. All rights reserved.

::\Users\yashp>pip install pipenv
Requirement already satisfied: pipenv in c:\users\yashp\appdata\local\programs\python\python39\lib\site-packages (2021.5-29)
Requirement already satisfied: virtualenv-clone>=0.2.5 in c:\users\yashp\appdata\local\programs\python\python39\lib\site-packages (from pipenv) (0.5.4)
Requirement already satisfied: virtualenv in c:\users\yashp\appdata\local\programs\python\python39\lib\site-packages (from pipenv) (20.4.7)
Requirement already satisfied: pip>=18.0 in c:\users\yashp\appdata\local\programs\python\python39\lib\site-packages (from pipenv) (21.1.2)
Requirement already satisfied: certifi in c:\users\yashp\appdata\local\programs\python\python39\lib\site-packages (from pipenv) (2021.5.30)
Requirement already satisfied: setuptools>=36.2.1 in c:\users\yashp\appdata\local\programs\python\python39\lib\site-packages (from pipenv) (56.0.8)
Requirement already satisfied: appdirs<2,>=1.4.3 in c:\users\yashp\appdata\local\programs\python\python39\lib\site-packages (from virtualenv->pipenv) (1.6.0)
Requirement already satisfied: six<2,>=1.9.0 in c:\users\yashp\appdata\local\programs\python\python39\lib\site-packages (from virtualenv->pipenv) (0.6.3.2)
Requirement already satisfied: distlib<1,>=0.3.1 in c:\users\yashp\appdata\local\programs\python\python39\lib\site-packages (from virtualenv->pipenv) (0.3.2)
Requirement already satisfied: distlib<1,>=0.3.1 in c:\users\yashp\appdata\local\programs\python\python39\lib\site-packages (from virtualenv->pipenv) (0.3.2)
Requirement already satisfied: distlib<1,>=0.3.1 in c:\users\yashp\appdata\local\programs\python\python39\lib\site-packages (from virtualenv->pipenv) (0.3.2)
```

Step 2:- Create model(in models.py) to connect with database and insert table.

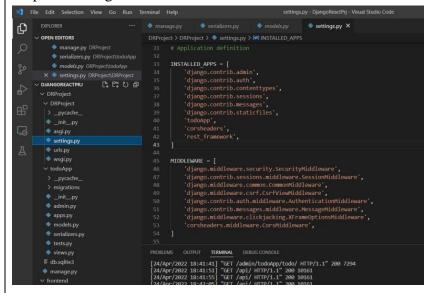


PREPARED BY: DR. RAJEEV GUPTA

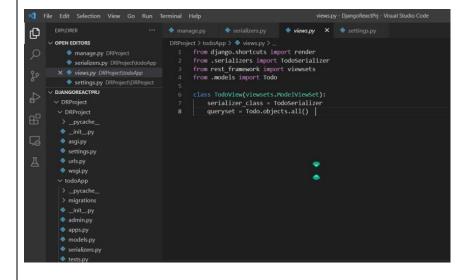
APPROVED BY: HOD

MATEC	M. M. ENGINEERING COLLEGE	- MULLANA	LABORATORY MANUAL	
MMEC PRACTICAL EXPERIMENT INSTRUCTION SHEET				
	with Reactjs using Django			
	REST Framework.			
EXPERIMENT NO.: MMEC-WI-BCSE-533L-10 ISSUE NO.: 01		ISSUE DATE: 04/07/2022		
REV. DATE: NA REV. NO.: 00 DEPTT.: C		DEPTT.: CSE		
LABORATORY: Python & its Framework Lab		SEMESTER: V	PAGE: 02 OF 05	

Step 3:- Putting in the APIs

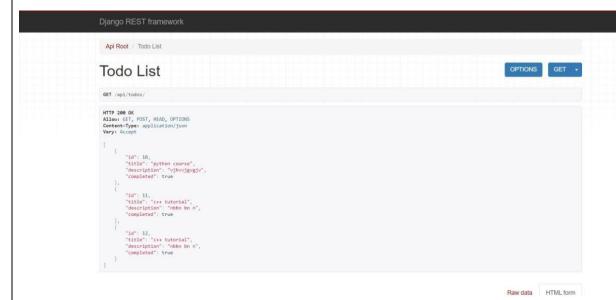


Step-4:- Create class (in views.py)which perform the CRUD operations

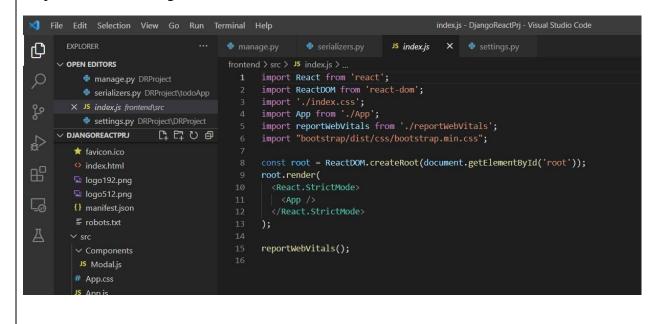


MMEC	M. M. ENGINEERING COLLEG	E – MULLANA	LABORATORY MANUAL	
MMEC PRACTICAL EXPERIMENT INSTRUCTION SHEET				
EXPERIMENT TITLE: Demonstrate how to integrate Django with Reactjs using				
	REST Framework.			
EXPERIMENT NO.: MMEC-WI-BCSE-533L-10 ISSUE NO.: 01 ISSUE DATE: 04/07/		ISSUE DATE: 04/07/2022		
REV. DATE: NA REV. NO.: 00 DEPTT.: CS		DEPTT.: CSE		
LABORATORY: Python & its Framework Lab		SEMESTER: V	PAGE: 03 OF 05	

Step-5:-Performing CRUD operations to our items is enabled by the router.



Step-6:- Frontend using React.

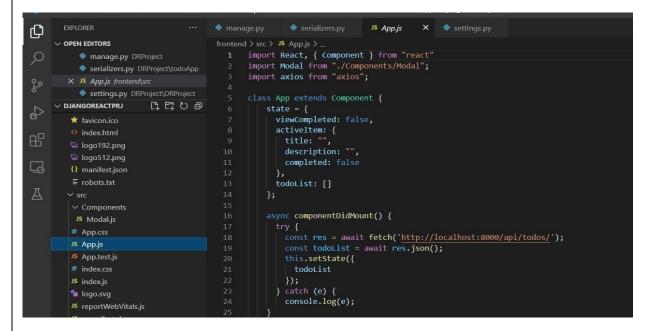


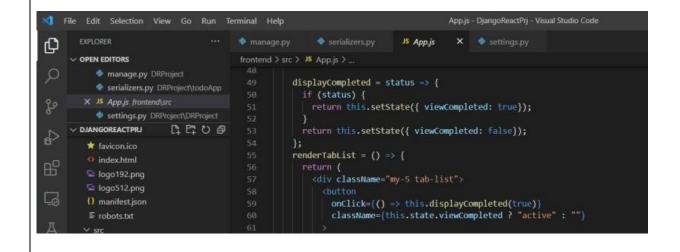
PREPARED BY: DR. RAJEEV GUPTA

APPROVED BY: HOD

	M. M. ENGINEERING COLLEGE	– MULLANA	LABORATORY MANUAL	
MMEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
EXPERIMENT TITLE: Demonstrate how to integrate Django with Reactjs using				
	REST Framework.			
EXPERIMENT NO.: MMEC-WI-BCSE-533L-10 ISSUE NO.: 01 ISSUE DATE:		ISSUE DATE: 04/07/2022		
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE		DEPTT.: CSE		
LABORATORY: Python & its Framework Lab SEMESTER		SEMESTER: V	PAGE: 04 OF 05	

Step-7:-Substitute the below code in src/App.js.





MATEC	M. M. ENGINEERING COLLEGE – MULLANA		LABORATORY MANUAL	
MMEC	PRACTICAL EXPERIMENT INSTRUCTION SHEET			
	EXPERIMENT TITLE: Demonstrate how to integrate Django with Reactjs using Djang			
	REST Framework.			
EXPERIMENT NO.: MMEC-WI-BCSE-533L-10 ISSUE NO.: 01 ISSUE DATE: 04/07/2			ISSUE DATE: 04/07/2022	
REV. DATE: NA REV. NO.: 00 DEPTT.: CSE			DEPTT.: CSE	
LABORATORY: Python & its Framework Lab SEMESTER: V		PAGE: 05 OF 05		

ep-8:-Your application sho	ould be like the one below at thi	point:	
		Raw data HTML form	
Title			
Description			
Completed		POST	

PREPARED BY: DR. RAJEEV GUPTA	APPROVED BY: HOD	Page 30
-------------------------------	------------------	-----------