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IT LAB -5 : Developing Web Application using Django

P1)

```
<!doctype html>
```

```
<html>
```

```
<head>
```

```
    <meta charset="utf-8">
```

```
    <title>App to add two Nos</title>
```

```
</head>
```

```
<body>
```

```
    <script type="text/javascript">
```

```
        function myfunc() {
```

```
            var n1 = document.getElementById("num1").value;
```

```
            var n2 = document.getElementById("num2").value;
```

```
            var n3 = document.getElementById("num3").value;
```

```
            var n4 = document.getElementById("num4").value;
```

```
            var n5 = document.getElementById("num5").value;
```

```
            var n6 = document.getElementById("num6").value;
```

```
            var n7 = document.getElementById("num7").value;
```

```

        var n8 = parseInt(n5) + parseInt(n6) + parseInt(n7);

        document.getElementById("num8").value = n1 + "\n" + n2 + "\n" + n3 +
"\n" + n4 + "\n" + n5 + "\n" + n6 + "\n" + n7 + "\n" + n8;

    }
</script>

```

Enter Name: <input type="text" id="num1">

Enter Address: <input type="text" id="num2">

Enter DOB: <input type="text" id="num3">

Enter contact no.: <input type="number" id="num4">

Marks English: <input type="number" id="num5">

Marks Physics: <input type="number" id="num6">

Enter Chemistry: <input type="number" id="num7">

<button onclick="myfunc()">Submit</button>

<br\>

<p id="para1"></p>

<textarea id="num8" name="myarea" rows="7" cols="50">

</textarea>

</body>

</html>

views.py :

```

from django.shortcuts import render

```

```

def q1_view(request):

```

```
return render(request, 'q1.html', {})
```

Urls.py :

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

```
urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('q1_app.urls')),
]
```

Lab 5/Urls.py:

```
from django.urls import path
from q1_app import views
```

```
urlpatterns = [
    path('', views.q1_view, name='q1_view'),
]
```

Lab 5/settings.py :

```
from pathlib import Path

# Build paths inside the project like this: BASE_DIR / 'subdir'.
BASE_DIR = Path(__file__).resolve().parent.parent

# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/3.2/howto/deployment/checklist/

# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = 'django-insecure-=ei@4pp$pp)1cx-8khg1fcwyxr%^o2l(oum)p#+127*q-8s0w)'
```

```
# 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',
```

```
    'q1_app'
```

```
]
```

```
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 = 'lab5.urls'
```

```
TEMPLATES = [
```

```
{
```

```
    'BACKEND': 'django.template.backends.django.DjangoTemplates',
```

```
'DIRS': [],
'APP_DIRS': True,
'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 = 'lab5.wsgi.application'
```

```
# Database
```

```
# https://docs.djangoproject.com/en/3.2/ref/settings/#databases
```

```
DATABASES = {
```

```
    'default': {
```

```
        'ENGINE': 'django.db.backends.sqlite3',
```

```
        'NAME': BASE_DIR / 'db.sqlite3',
```

```
    }
```

```
}
```

```
# Password validation
```

```
# https://docs.djangoproject.com/en/3.2/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/3.2/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/3.2/howto/static-files/>

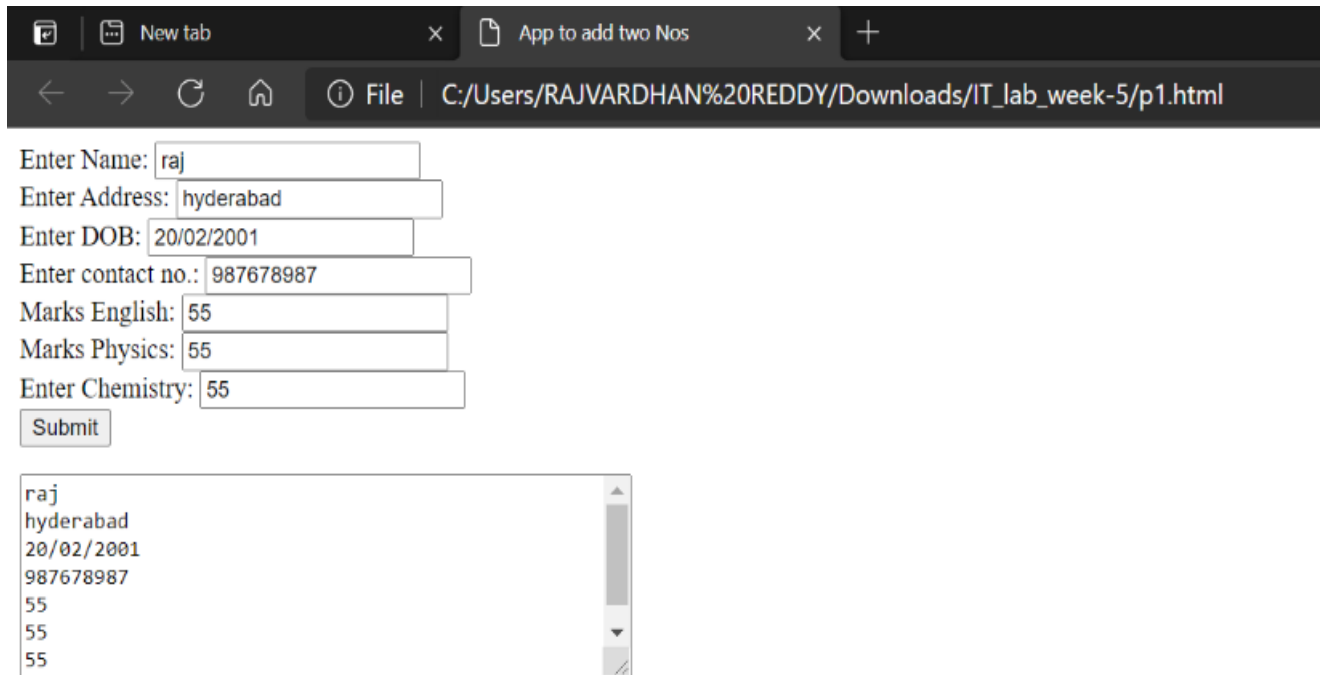
STATIC_URL = '/static/'

Default primary key field type

<https://docs.djangoproject.com/en/3.2/ref/settings/#default-auto-field>

DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'

Output :



Enter Name:

Enter Address:

Enter DOB:

Enter contact no.:

Marks English:

Marks Physics:

Enter Chemistry:

raj
hyderabad
20/02/2001
987678987
55
55
55

P2)

Templates/home.html :

```
<html lang="en">
```

```
<head>
```

```
<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>Document</title>
```

```
</head>
```

```
<body>
```

```
<form action="selection">
<label for="items">choose an id:</label>
<select id="items" name="emid">
<option value="item1">180905093</option>
<option value="item2">180905221</option>
<option value="item3">180905343</option>
<option value="item4">180905480</option>
<option value="item5">180905555</option>
</select><br>
enter the date of joining: <input type="date" id = "doj" name="doj"><br>
<input type="submit" value="submit"><br>
</form>
</body>
</html>
```

Templates/result.html :

```
<html lang="en">
<head>
<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>Result</title>
</head>
<body>
{{selection}}
</body>
</html>
```


Form/Views.py :

```
from django.shortcuts import render
from django.http import HttpResponse
# Create your views here.
def home(request):
    return render(request,'home.html')
def select(request):
    n1 = request.GET['doj']
    n2 = int(n1[:4])
    if 2021-n2>5:
        n1 = "CONGRATULATIONS YOU ARE ELGIBLE FOR PROMOTION"
    else:
        n1 = "SORRY YOU ARE NOT ELGIBLE FOR THE PROMOTION"
    return render(request,'result.html',{'selection':n1})
```

Forms/Urls.py :


```
from django.urls import path
from . import views
urlpatterns = [
    path("",views.home,name="home"),
    path('selection',views.select,name='selection')]
```

Output :

choose an id: 

Enter the Date of Joining:

CONGRATULATIONS YOU ARE ELGIBLE FOR PROMOTION

choose an id: 
Enter the Date of Joining:

SORRY YOU ARE NOT ELGIBLE FOR THE PROMOTION

P3)

Templates/home.html :

```
<html lang="en">
```

```
<head>
```

```
<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>Document</title>
```

```
</head>
```

```
<body>
```

```
<script type="text/javascript">
```

```
function calculator(){
var n1 = parseFloat(document.getElementById('num1').value);
var n2 = parseFloat(document.getElementById('num2').value);
var n3 = document.getElementById('op').value;
if(n3==""){
n4 = n1+n2;
}
else if(n3=="-"){
n4 = n1-n2;
}
else if(n3=="*"){
n4 = n1*n2;
}
else if(n3=="/"){
n4=n1/n2;
}
document.getElementById('result').innerHTML = n4;
}
</script>
<input type="number" id = 'num1'><br>
<input type="number" id = 'num2'><br>
<label for="op">select the operation to be performed</label>
<select name="op" id="op">
<option value="+">+</option>
<option value="-">-</option>
<option value="*">*</option>
```

```
<option value="/">/</option>
</select>
<br>
<button onclick="calculator()">calculate</button><br>
<h3 id="result"></h3>
</body>
</html>
```

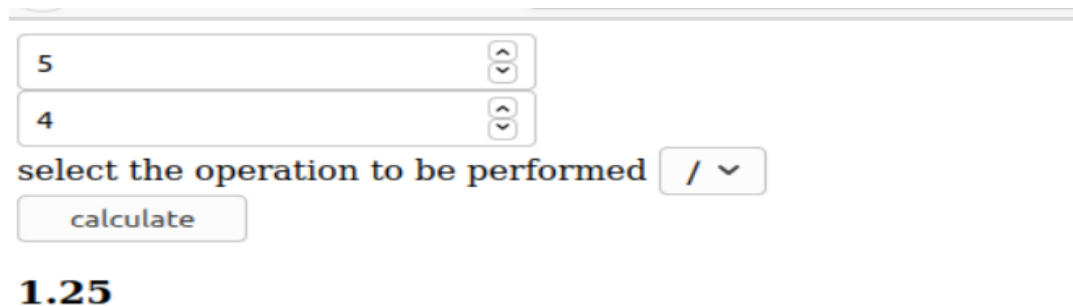
Form/views.py :

```
from django.shortcuts import render
from django.http import HttpResponse
# Create your views here.
def home(request):
    return render(request,'home.html')
```

Form/urls.py :

```
from django.urls import path
from . import views
urlpatterns = [
    path("",views.home,name="home"),]
```

Output :



5

4

select the operation to be performed /

calculate

1.25

P4)

Templates/home.html :

```
<html lang="en">

<head>

<link rel="stylesheet" href="{% static 'css/q4.css' %}">

<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>Document</title>

</head>

<body>

<script>

function colorChange(color){

document.getElementById('mag').style.backgroundColor=color;

}

function enterText(){

document.getElementById('ct').innerHTML =

document.getElementById('text').value;

document.getElementById('ct').style.fontSize=document.getElementById('fs').value;

document.getElementById('ct').style.fontFamily =

document.getElementById('font').value;

}

function bgChange1(){

document.getElementById('mag2').style.backgroundImage='url("https://car-images.bauersecure.com/pagefiles/78015/tesla_roadster_01.jpg")';

document.getElementById('mag2').style.backgroundSize = 'cover';
```

```

document.getElementById('mag2').style.backgroundRepeat='no-repeat';
}
function bgChange2(){
document.getElementById('mag2').style.backgroundImage='url("https://supers
tarsbio.com/wp-conten
t/uploads/2019/04/Robert-Downey-Jr.-Smile.jpg")';
document.getElementById('mag2').style.backgroundSize = 'cover';
document.getElementById('mag2').style.backgroundRepeat='no-repeat';
}
</script>
<table style="height: 100%;">
<tr>
<td id="col1">
<table style="border-spacing: 0px 50px;">
<tr><th>select color:</th><th><button id="c1" onclick="colorChange('coral')"
class="c"></button></th><th><button id="c2"
onclick="colorChange('cornflowerblue')"
class="c"></button></th><th><button id = "c3"
onclick="colorChange('yellow')"
class="c"></button></th><th><button id="c4"
onclick="colorChange('lightgreen')"
class="c"></button></th>
</tr>
<tr>
<th>select image:</th>
<th><button id="i1" onclick="bgChange1()" class="i"></button></th>
<th><button id="i2" onclick="bgChange2()" class="i"></button></th>

```

```
</tr>
</table>
<table>
<tr>
<th>enter the Text: </th>
<th><textarea name="text" id="text" cols="30"
rows="10"></textarea></th></tr>
</table>
<table>
<tr>
<th>select the font: </th>
<th><select name="fonts" id="font">
<option value="Times New Roman">Times New Roman</option>
<option value="Arial">Arial</option>
<option value="Helvetica">Helvetica</option>
<option value="sans-serif">sans-serif</option>
<option value="Lucida Console">Lucida Console</option>
</select>
</th>
</tr>
</table>
<table>
<tr>
<th>enter the font-size:</th>
<th><input type="number" id="fs"></th>
</tr>
</table>
```

```
<button onclick="enterText()">submit</button>
</td>
<td id="mag">
<div id="mag2">
<h1 id="magHead">MIT</h1>
</div>
<p id="ct"></p>
</td>
</tr>
</table>
</body>
</html>
```

Proj4/settings.py :

```
STATICFILES_DIRS = [
os.path.join(BASE_DIR,'static')
]
STATIC_ROOT = os.path.join(BASE_DIR, 'assets')
```

Form/views.py :

```
from django.shortcuts import render
from django.http import HttpResponse
# Create your views here.
def home(request):
return render(request,'home.html')
```

Static/css/q4.css :

```
#col1{
```

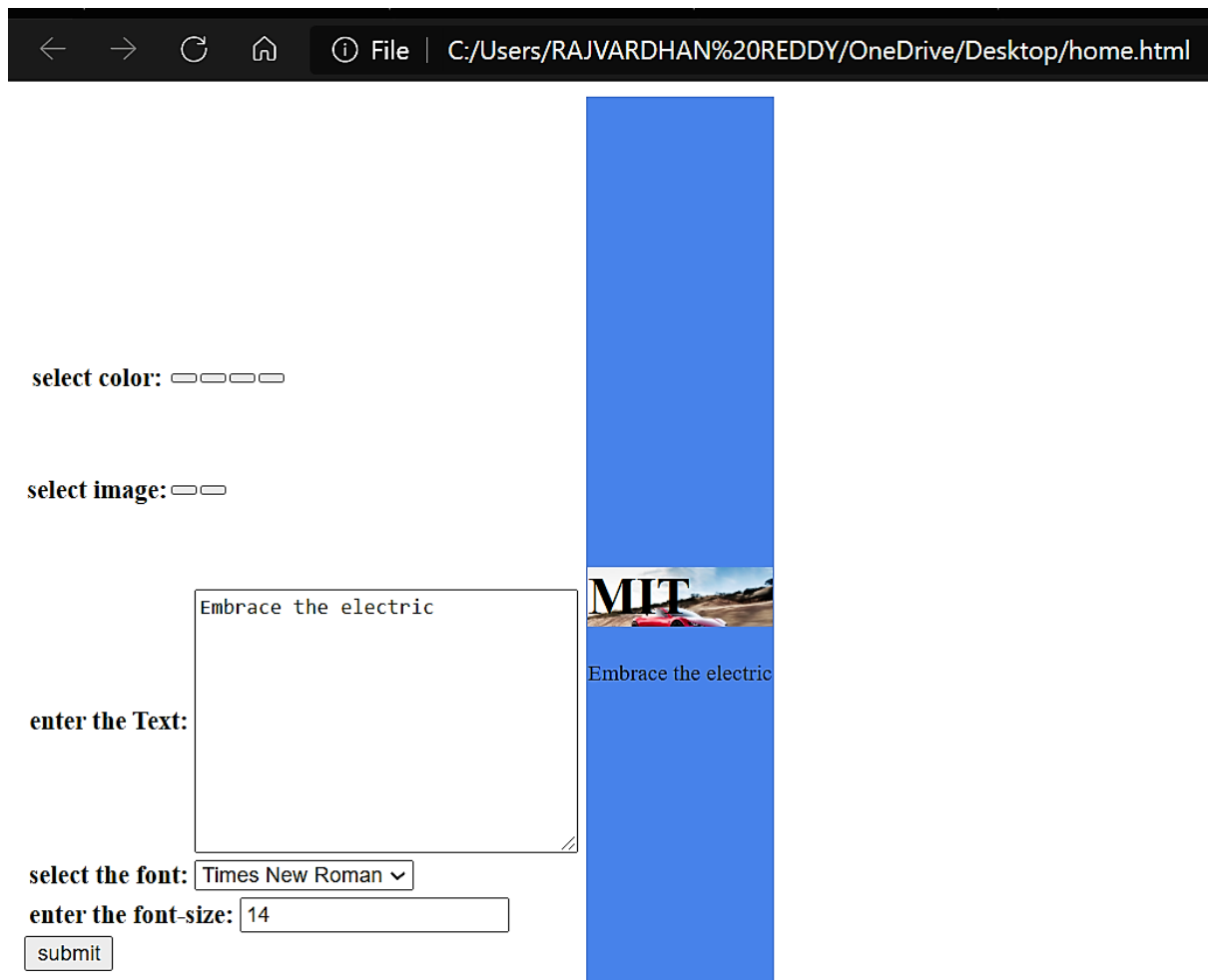


```
width: 40%;  
}  
#col2{  
width:40%;  
}  
.c{  
height: 50px;  
width: 50px;  
margin: 0px 20px;  
}  
#c1{  
background-color: coral;  
}  
#c2{  
background-color: cornflowerblue;  
}  
#c3{  
background-color:yellow;  
}  
#c4{  
background-color: lightgreen;  
}  
#i1{  
background-image:  
url("https://car-  
images.bauersecure.com/pagefiles/78015/tesla_roadster_01.jpg");  
background-size: 100px;
```

```
background-repeat: no-repeat;
background-position: center;
height: 60px;
width: 80px;
}
#i2{
background-image:
url("https://superstarsbio.com/wp-content/uploads/2019/04/Robert-Downey-
Jr.-Smile.jpg");
background-size: 100px;
background-repeat: no-repeat;
background-position: center;
height: 60px;
width: 80px;
}
.i{
margin: 0px 20px;
}
#mag{
text-align: center;
height: 1000%;
}
#magHead{
font-family: cursive;
font-size: 800%;
color: white;
}
```

```
#mag2{
height: 50%;
text-align: center;
}
```

Output :



The screenshot shows a web browser window with a dark address bar displaying the file path: `C:/Users/RAJVARDHAN%20REDDY/OneDrive/Desktop/home.html`. The main content area is split into two parts. On the left, there is a form with the following elements:

- A label "select color:" followed by four empty input boxes.
- A label "select image:" followed by two empty input boxes.
- A label "enter the Text:" followed by a large text area containing the text "Embrace the electric".
- A label "select the font:" followed by a dropdown menu showing "Times New Roman".
- A label "enter the font-size:" followed by an input box containing the value "14".
- A "submit" button.

On the right side of the form, there is a tall, solid blue vertical bar. In the center of this bar is a small image of a red sports car with the "MIT" logo overlaid on it. Below the car image, the text "Embrace the electric" is visible.

P5)

Templates/home.html :

```
<html lang="en">
<head>
```

```
<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>Document</title>
</head>
<body>
<script>
var count = 0;
function validate(){
var c = document.getElementById('inp').value;
if(c=='qGphJ'){
document.getElementById('smg').innerHTML = "This is a
secrete message";
}
else if(count<3){
count+=1;
}
else{
document.getElementById('inp').disabled = true;
document.getElementById('smg').innerHTML = 'you exceeded
the maximum number of attempts';
}
}
</script>
<br>
```

```
<textarea name="inp" id="inp" cols="20" rows="1" style="font-size:
18px;"></textarea><br>
<button onclick="validate()">submit</button><br>
<p id="smg"></p>
</body>
</html>
```

form/views.py :

```
from django.shortcuts import render
from django.http import HttpResponse
import random
# Create your views here.
def home(request):
    return render(request,'home.html')
```

form/urls.py :

```
from django.urls import path
from . import views
urlpatterns = [
    path("",views.home,name="home"),
]
```

Output :



you exceeded the maximum number of attempts



P6)

Templates/home.html :

```
html lang="en">
```

```
<head>
```

```
  <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>Document</title>
```

```
</head>
```

```
<body style="background-image:
```

```
url('https://rickriordan.com/content/uploads/2016/05/Heroes-of-Olympus-
Banner-resized.jpg');background-size:
```

```
1000px;">
```

```
  <table style="font-size: 20px;margin: 0px 10px;">
```

```
    <tr>
```

```
      <th><a href="{% url 'metaData' %}">metadata</a></th>
```

```
      <th><a href="{% url 'review' %}">review</a></th>
```

```
      <th><a href="{% url 'author' %}">author info</a></th>
```

```
    </tr>
```

```
  </table>
```

```
<br>
```

Overview</h1>

<p style="color: white;">

The Heroes of Olympus is a pentalogy of fantasy-adventure novels written by American author Rick Riordan.

The novels detail a conflict between Greek demigods, Roman demigods, and Gaea (Roman name Terra) also known as Mother Earth.

In the fourth book of the series, there is also a semi-large fight against Tartarus, which, in Greek mythology, was the darkest and deepest point of the underworld.

The series is a sequel to Percy Jackson & the Olympians, which detailed the life of modern-day Greek demigods.

The sequel to this series, and the 3rd series in the trilogy is The Trials of Apollo.

Riordan introduces Roman mythology in his sequel series as well as several new characters.

The first book of the series, The Lost Hero, was published on October 12, 2010.

The final entry in the series, The Blood of Olympus, was published on October 7, 2014.

</p>

</body>

</html>

templates/review.html :

<html lang="en">

<head>

<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>review</title>

</head>

<body style="background-image:

url('https://rickriordan.com/content/uploads/2016/05/Heroes-of-Olympus-Banner-resized.jpg');background-size:

1000px;">

home

<h1 style="color: white;">Review</h1>

<pre style="color: white;font-size: 15px;">

The Lost Hero won the Barnes & Noble Best Book of 2010 award and was a Massachusetts Children's Book Award Honor book for 2014, among other honors.

Rick Riordan was named "Author of the Year" for the novel at the 2011 Children's Choice Awards.

The book was also recommended by the ALA Best Fiction for Young Adults list of 2012.

</pre>

</body>

</html>

templates/metadata.html :

<html lang="en">

<head>

<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>meta data</title>

</head>

<body style="background-image:

url('https://rickriordan.com/content/uploads/2016/05/Heroes-of-Olympus-Banner-resized.jpg');background-size:

1000px;">

home

<h1 style="color: white;">meta data</h1>

<p style="color: white;">

Cover artist John Rocco

Country United States

Language English

GenreFantasy, young adult fiction, mystery, adventure, Greek and Roman mythological fiction

Publisher Disney Hyperion (US)

Penguin Books/Puffin (UK, AU, NZ)

Published 2010–2014

Media type Print (hardcover and paperback), audiobook, e-book

No. of books5

</p>

</body>

</html>

templates/author.html :

<html lang="en">

<head>

<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>author</title>

```

</head>

<body style="background-image:
url('https://rickriordan.com/content/uploads/2016/05/Heroes-of-Olympus-
Banner-resized.jpg');background-size:
1000px;">

<a href="{% url 'home' %}" style="font-size: 20px;">home</a><br>

<h1>About author</h1><br>

<pre style="font-size: 15px;">
    Richard Russell Riordan Jr. is an American author.

    He is known for writing the Percy Jackson & the Olympians series, about a
    teenager named Percy Jackson who discovers

    he is a son of the Greek god Poseidon. Riordan's books have been
    translated into forty-two languages and sold more

    than thirty million copies in the US.[2] 20th Century Fox adapted the first
    two books of his Percy Jackson series as

    part of a series of films. His books have spawned related media, such as
    graphic novels and short story collections.
</pre>

</body>

</html>

```

form/views.py :

```

from django.shortcuts import render
from django.http import HttpResponse
import random

# Create your views here.

def home(request):
    return render(request,'home.html')

def meta(request):

```

```

return render(request,'metadata.html')

def review(request):
return render(request,'review.html')

def author(request):
return render(request,'author.html')

```

form/urls.py :

```

from django.urls import path

from . import views

urlpatterns = [

path("",views.home,name="home"),

path('metadata',views.meta,name='metaData'),

path('review',views.review,name='review'),

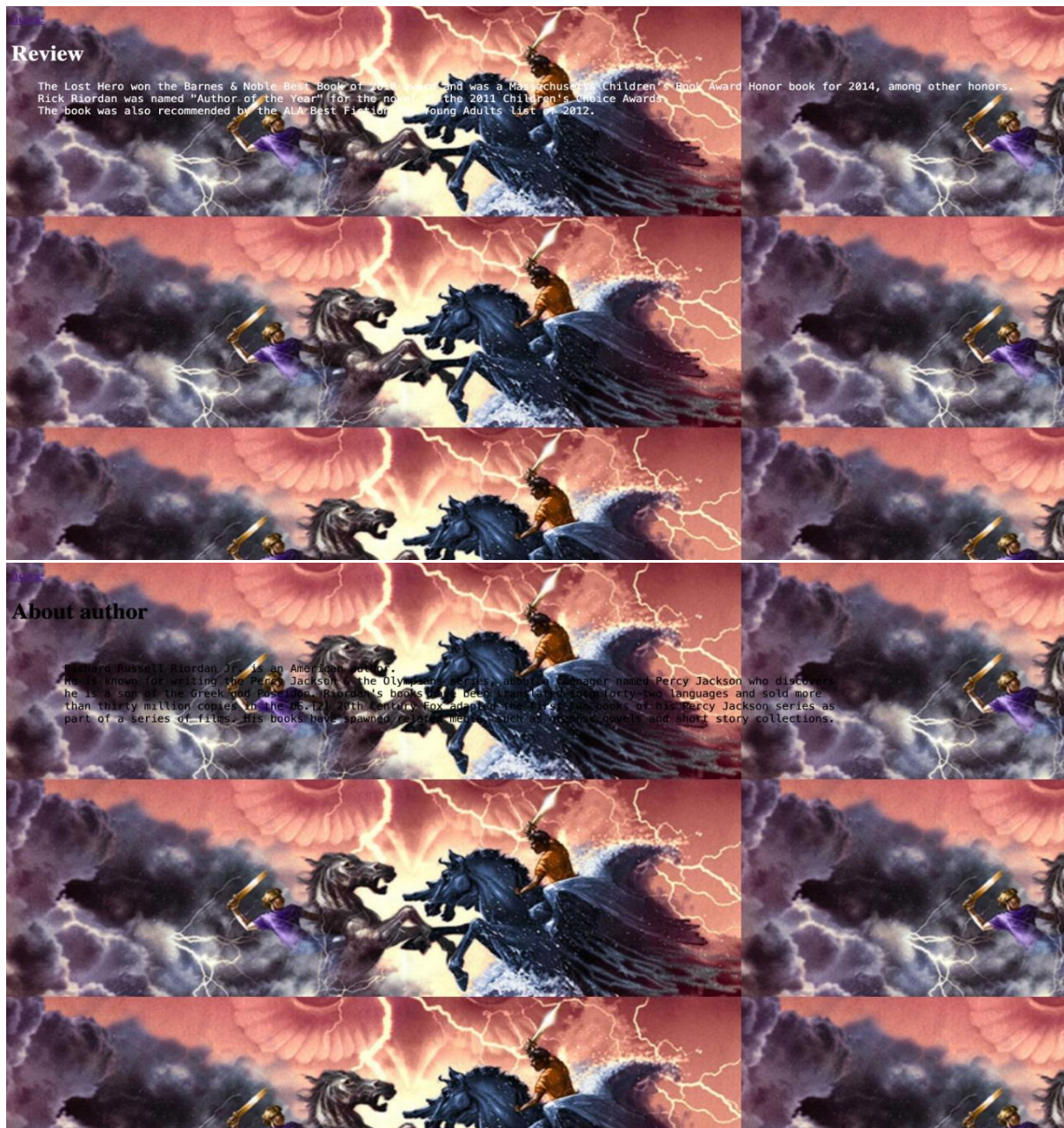
path('author',views.author,name='author')

]

```

Output :





Review

The Lost Hero won the Barnes & Noble Best Book of 2012 and was a Massachusetts Children's Book Award Honor book for 2014, among other honors. Rick Riordan was named "Author of the Year" for the novel in the 2011 Children's Choice Awards. The book was also recommended by the ALA Best Fiction Young Adults List in 2012.

About author

Rick Riordan is an American author. He is known for writing the Percy Jackson & the Olympians series, about a teenager named Percy Jackson who discovers he is a son of the Greek god Poseidon. Riordan's books have been translated into forty-two languages and sold more than thirty million copies in the US. In 2011, 20th Century Fox adapted the first two books of his Percy Jackson series as part of a series of films. His books have spawned related media, such as graphic novels and short story collections.



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