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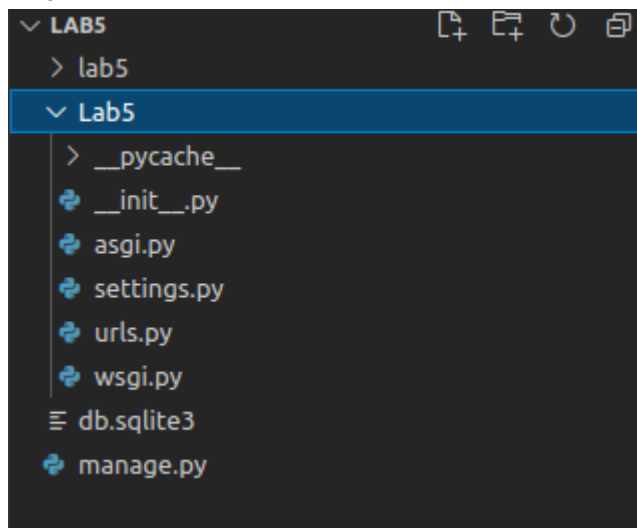
IT LAB 5

Developing Web Application using Django

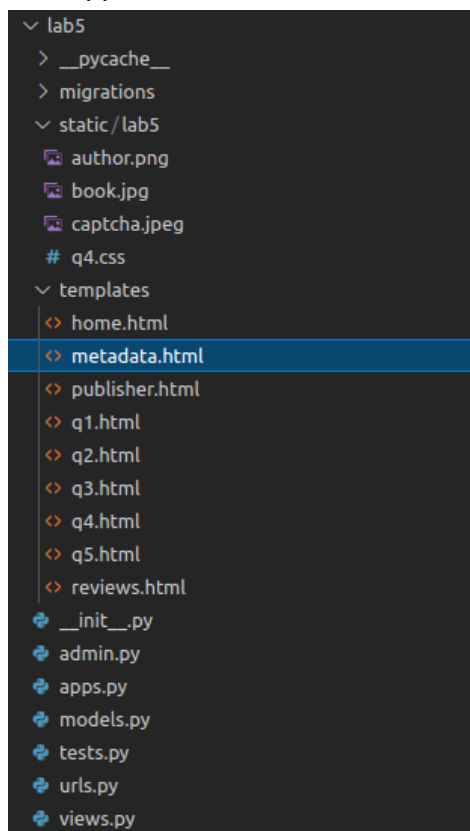
I've made a single Django project called "Lab 5"-

In that I've created one app "lab5" which has all the questions of Lab5.

Project Folder Structure



lab5 App Folder Structure



Lab5 folder modified file parts only:

Lab5/Lab5/settings.py

```
INSTALLED_APPS = [  
    'lab5',  
]
```

```
TEMPLATES = [  
    {  
        'BACKEND': 'django.template.backends.django.DjangoTemplates',  
        'DIRS': [os.path.join(BASE_DIR, 'lab5/templates')],  
    },  
]
```

```
STATIC_URL = '/static/'  
STATIC_ROOT = os.path.join(BASE_DIR, 'static')
```

Lab5/Lab5/urls.py

```
from django.contrib import admin  
from django.urls import path  
from django.conf.urls import include  
  
urlpatterns = [  
    path('admin/', admin.site.urls),  
    path('lab5/', include('lab5.urls')),  
]
```

Now lab5 app files

Lab5/lab5/urls.py - I've created this file

```
from django.urls import path  
from . import views  
  
urlpatterns = [  
    path('q1', views.q1, name='q1'),  
    path('q2', views.q2, name='q2'),  
    path('q3', views.q3, name='q3'),  
    path('q4', views.q4, name='q4'),  
    path('q5', views.q5, name='q5'),  
    path('q6/home', views.q6Home, name='home'),  
    path('q6/metadata', views.q6Metadata, name='metadata'),  
    path('q6/reviews', views.q6Reviews, name='reviews'),  
    path('q6/publisher', views.q6Publisher, name='publisher'),  
]
```

```
]
```

Lab5/lab5/views.py

```
from django.shortcuts import render

def q1(request):
    return render(request, 'q1.html')

def q2(request):
    return render(request, 'q2.html')

def q3(request):
    return render(request, 'q3.html')

def q4(request):
    return render(request, 'q4.html')

def q5(request):
    return render(request, 'q5.html')

def q6Home(request):
    return render(request, 'home.html')

def q6Metadata(request):
    return render(request, 'metadata.html')

def q6Reviews(request):
    return render(request, 'reviews.html')

def q6Publisher(request):
    return render(request, 'publisher.html')
```

I've created a folder called templates within lab5 which contains all the html files

Q1- Specific Files

Lab5/lab5/templates/q1.html

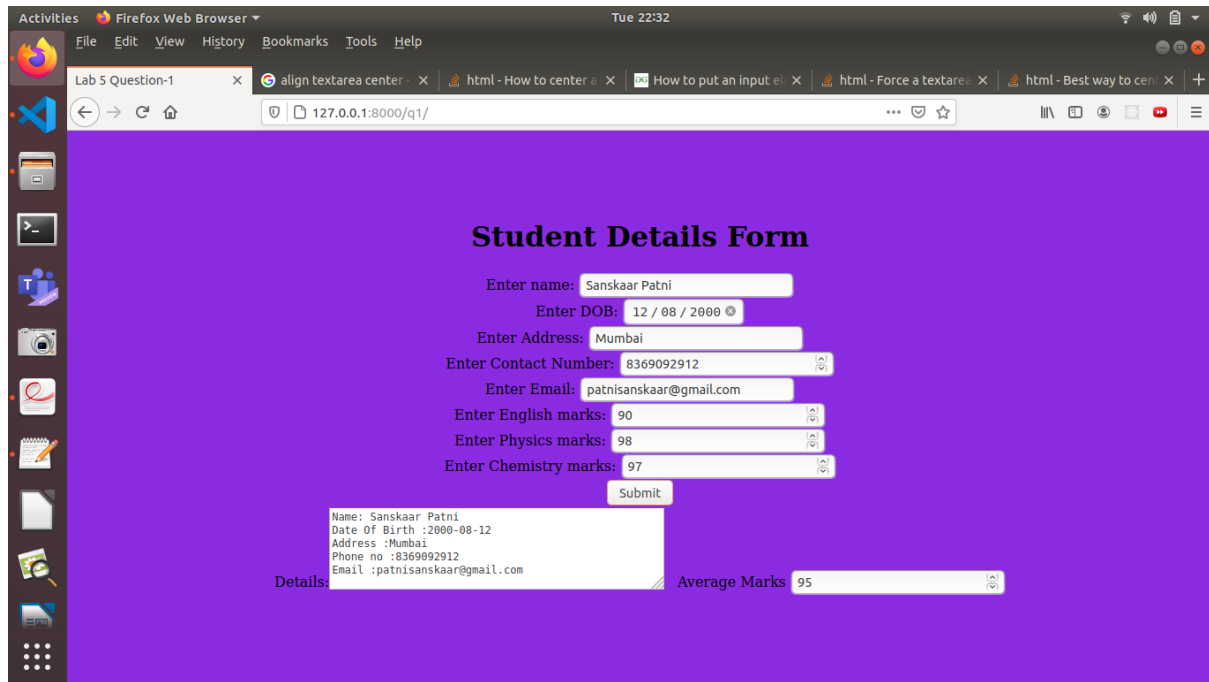
```
<body style="background-color: blueviolet;">
  <script type="text/javascript">
    function myfunc() {
      var name = document.getElementById("name").value;
      var dob = document.getElementById("dob").value;
      var addr = document.getElementById("address").value;
      var pno = document.getElementById("pno").value;
```

```

        var email = document.getElementById("email").value;
        var english = document.getElementById("engmarks").value;
        var physics = document.getElementById("phymarks").value;
        var chemistry = document.getElementById("chemmarks").value;
        var average = (parseInt(english) + parseInt(physics) +
parseInt(chemistry))/3
        var data = "Name: " + name + "\nDate Of Birth : " + dob +
"\nAddress : " + addr + "\nPhone no : " + pno + "\nEmail : " + email
        var textarea = document.getElementById("results")
        var item = document.createElement('textarea');
        textarea.value=data
        document.getElementById("avg").value=average
    }
</script>
<div style="text-align: center;margin: 50px auto 0px;">
    <h1 style="padding-top:50px ;">Student Details Form</h1>
    Enter name: <input type="text" id="name"><br>
    Enter DOB: <input type="date" id="dob"><br>
    Enter Address: <input type="text" id="address"><br>
    Enter Contact Number: <input type="number" id="pno"><br>
    Enter Email: <input type="email" id="email"><br>
    Enter English marks: <input type="number" id="engmarks"><br>
    Enter Physics marks: <input type="number" id="phymarks"><br>
    Enter Chemistry marks: <input type="number" id="chemmarks"><br>
    <button onclick="myfunc()">Submit</button>
    <br>
    <div>
        Details:<textarea id="results" style="margin-right: 10px;"
rows="5" cols="50"></textarea>
        <label for="avg">Average Marks</label>
        <input type="number" id="avg">
    </div>
</div>
</body>
</html>

```

Web page screenshot



Q2- Specific Files

Lab5/lab5/templates/q2.html

```
<!DOCTYPE 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>Lab 5 Question-2</title>
</head>

<body style="text-align: center;background-color: #FF6F61;margin-top:
200px;">
  <script type="text/javascript">
    function myfunc() {
      var dateOfJoining = document.getElementById("doj").value
      var d = new Date();
      var currentYear = d.getFullYear();
      var year = parseInt(dateOfJoining.substr(0, 4));
      if(Math.abs(currentYear-year)>2){
        document.getElementById("ans").innerHTML = "YES";
      } else {
        document.getElementById("ans").innerHTML = "NO";
      }
    }
  </script>

```

```

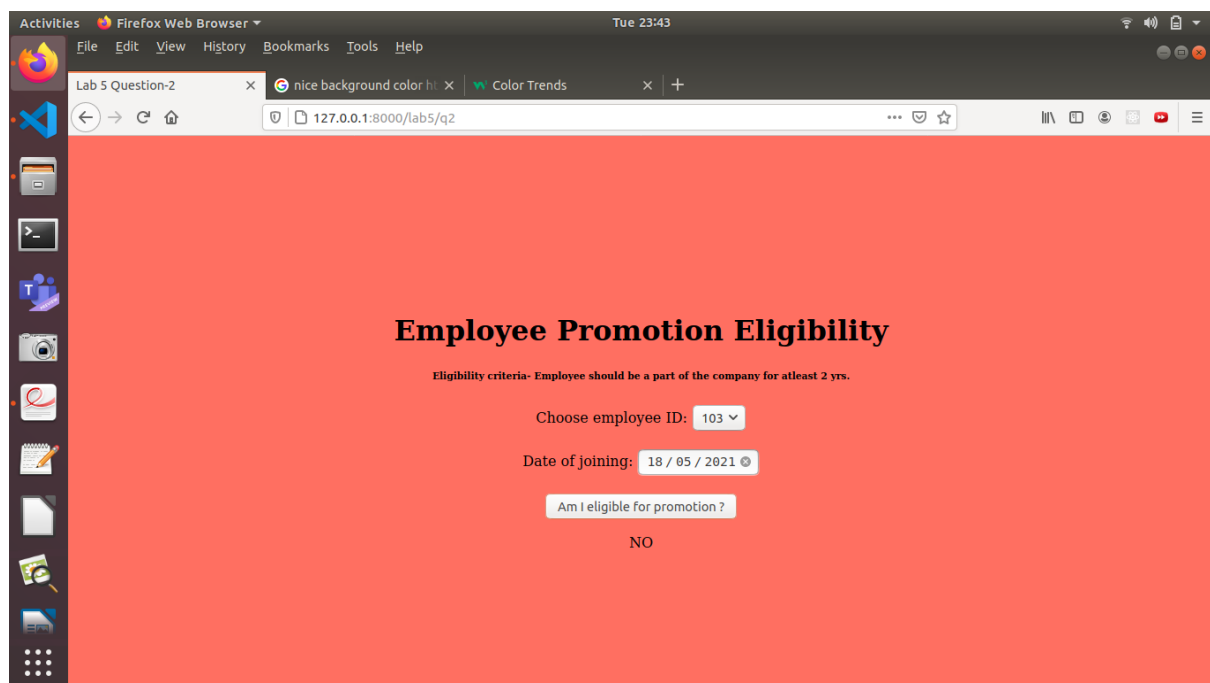
    }

</script>
<h1>Employee Promotion Eligibility</h1>
<h2>Eligibility criteria- Employee should be a part of the company
for atleast 2 yrs.</h2>
<div style="text-align: center;">
    <label for="employee">Choose employee ID:</label>
    <select name="employeeIds" id="employeeIds" required>
        <option value="id1">100</option>
        <option value="id2">101</option>
        <option value="id3">103</option>
        <option value="id4">104</option>
    </select>
    <br><br>
    Date of joining: <input type="date" id="doj"><br><br>
    <button onclick="myfunc()">Am I eligible for promotion
?</button>
    <br>
    <p id="ans"></p>
</div>
</body>

</html>

```

Web page screenshot



Q3- Specific Files

Lab5/lab5/templates/q3.html

```
<!DOCTYPE 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>Lab 5 Question-3</title>
</head>

<body style="text-align: center;background-color: #009B77;margin-top:
200px;">
  <script type="text/javascript">
    function myfunc() {
      var num1 = document.getElementById("num1").value
      var num2 = document.getElementById("num2").value
      var op = document.getElementById("operator").value
      if(op==='add'){
        document.getElementById("ans").innerHTML = "Result is "+
(parseInt(num1)+parseInt(num2));
      } else if(op==='sub'){
        document.getElementById("ans").innerHTML = "Result is
"+ (num1-num2);
      }else if(op==='mul'){
        document.getElementById("ans").innerHTML = "Result is
"+ (num1*num2);
      }else{
        document.getElementById("ans").innerHTML = "Result is
"+ (num1/num2);
      }
    }
  </script>
  <h1>Simple Calculator</h1>
  <h4>Enter values in required inputs</h4>
  <div style="text-align: center;">
    <label>Operand 1</label>
    <input type="number" id="num1">
    <label>Operand 2</label>
    <input type="number" id="num2">
    <br/>
```

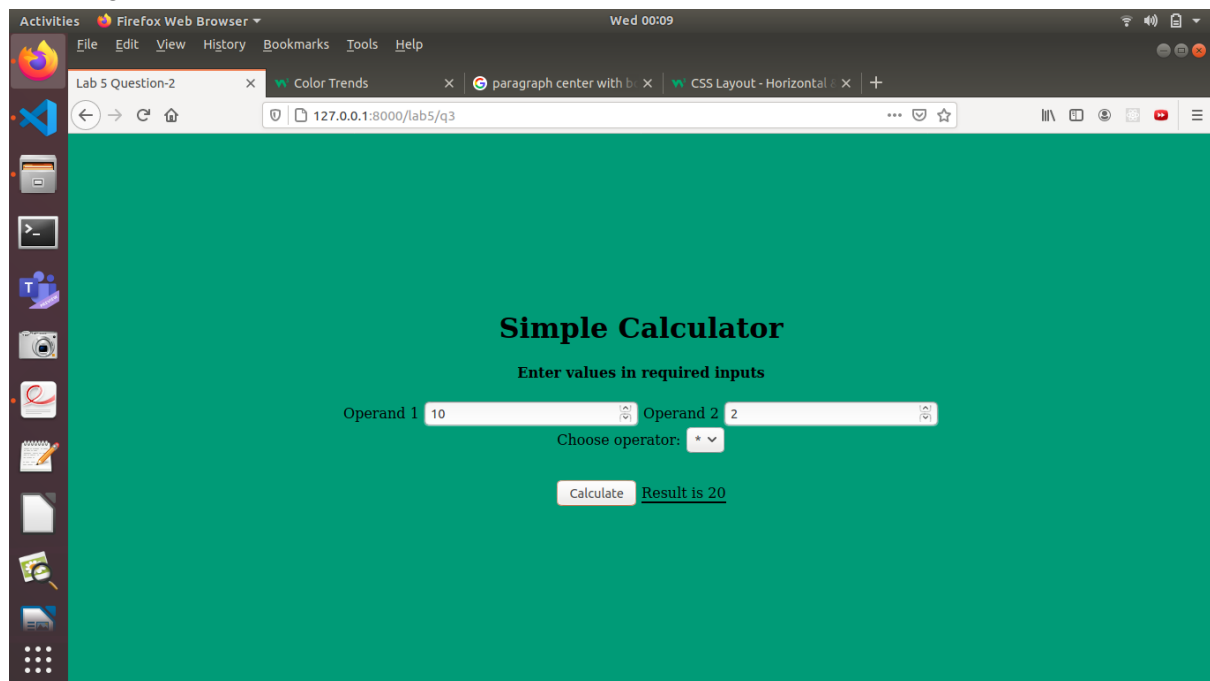
```

<label for="operator">Choose operator:</label>
<select name="operator" id="operator" required>
    <option value="add">+</option>
    <option value="sub">-</option>
    <option value="mul">*</option>
    <option value="div">/</option>
</select>
<br><br>
<button onclick="myfunc()">Calculate</button>
<br>
<p id="ans" style="border-bottom: 2px solid black;display:
inline-block;"></p>
</div>
</body>

</html>

```

Web page screenshot



Q4- Specific Files

Lab5/lab5/templates/q4.html

```

{% load static %}
<!DOCTYPE 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>Lab 5 Question-4</title>
<link rel="stylesheet" type="text/css" href="{% static 'lab5/q4.css'
%}">
</head>
<body>
    <div class="container">
        <div class="left" >
            <h2>Magazine Cover Settings</h2>
            <p>Font Size(for base text):<input type="number"
id="fontSize"></p>
            <p>Font Colour:<input type="color" id="fontColor"></p>
            <p>Image:<input type="file" accept="image/*" name="image"
id="file" onchange="loadFile(event)"></p>
            <p>Background Color:<input type="color" id="backColor"></p>
            <p>Header:<input type="text" id="header"></p>
            <p>BaseText:<input type="text" id="base"></p>
            <button onclick="myfunc()">Display Changes</button>
        </div>
        <div class="right">
            <h2>Magazine Cover Output</h2>
            <div class="magazine">
                <h2 id="head">Default Header</h2>
                <img id="imgOutput" height="300px" width="600px">
                <div id="baseText">Default Base text</div>
            </div>
        </div>
    </div>
    <script>
        var loadFile = function(event) {
            var image = document.getElementById('imgOutput');
            image.src = URL.createObjectURL(event.target.files[0]);
        };
        function myfunc(){
            var col=document.getElementById("fontColor")
            var size=document.getElementById("fontSize")
            var backgroundColor=document.getElementById("backColor")
            var head=document.getElementById("head")
            var basetext= document.getElementById('baseText')
            var magazine=document.getElementsByClassName("magazine")

```

```

        magazine[0].style.backgroundColor=backgroundColor.value

        head.innerHTML=document.getElementById("header").value
        head.style.color = col.value;

        basetext.innerHTML= document.getElementById("base").value
        basetext.style.color=col.value
        basetext.style.fontSize=size.value+"px";
    }
</script>
</body>
</html>

```

As mentioned in the question we had to create a separate css files for this question

Lab5/lab5/static/q4.css

```

body {
    background-color: #dfcfbe;
}

.container {
    display: flex;
    flex-direction: row;
}

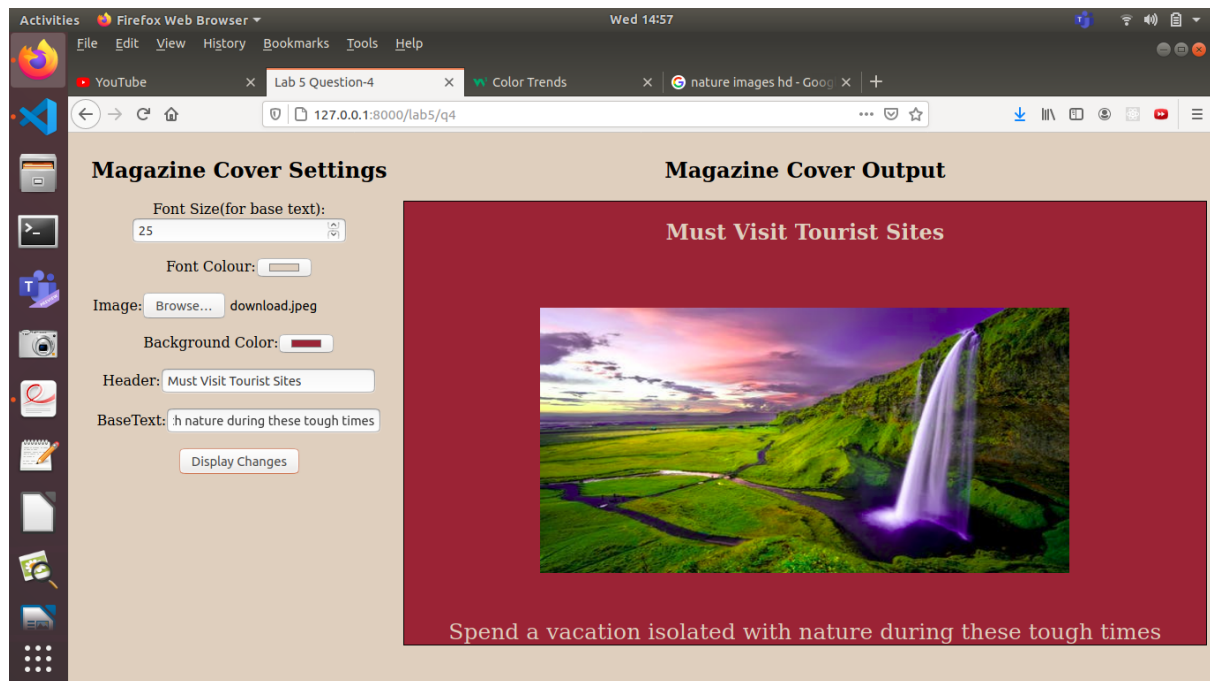
.left {
    flex-grow: 1;
    text-align: center;
}

.right {
    flex-grow: 1;
    text-align: center;
}

.right > .magazine {
    height: 80vh;
    width: 70vw;
    display: flex;
    text-align: center;
    flex-direction: column;
    justify-content: space-between;
    align-items: center;
    border: 1px solid black;
}

```

Web page screenshot



Q5- Specific Files

Lab5/lab5/templates/q5.html

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Lab 5 Question-5</title>
</head>
<body style="text-align: center;background-color: #DFCFBE;">

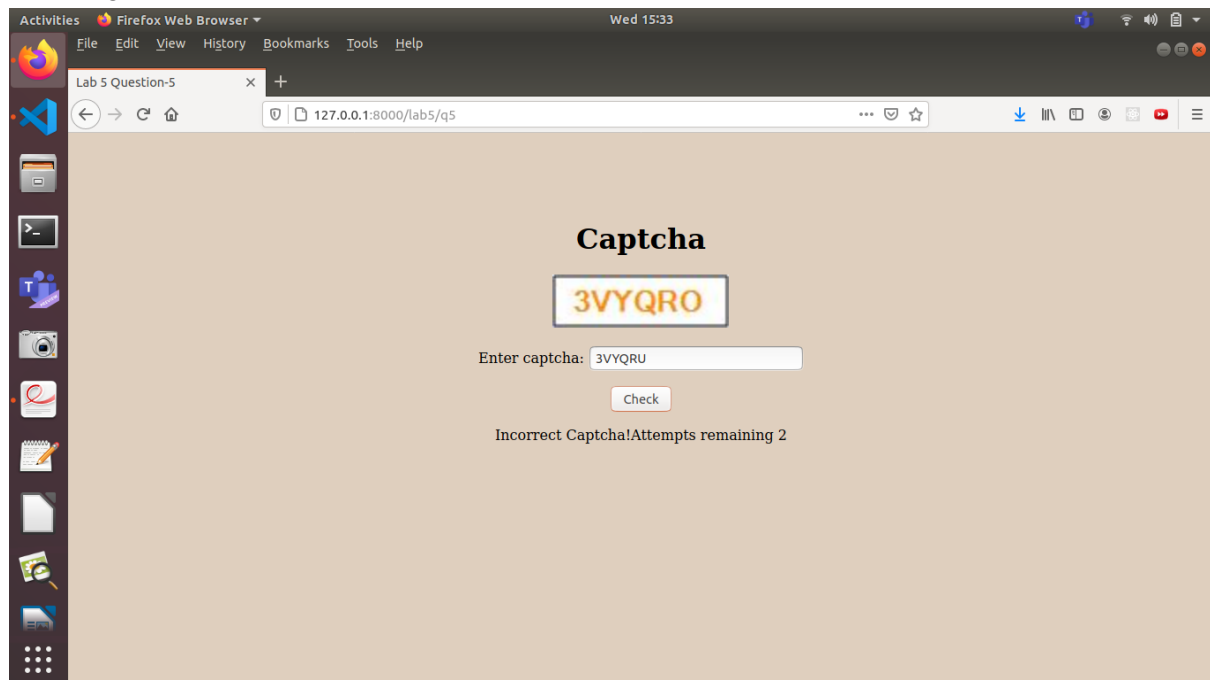
<script type="text/javascript">
    var count=3;
    function myfunc() {
        var n1= document.getElementById("inputCaptcha").value;
        if (n1!=='3VYQRO') {
            count--;
            if (count==0) {
                document.getElementById("textBox").style.display="none"
                document.getElementById("submitButton").style.display="none"
            }
        }
    }
}
```

```

        document.getElementById("para1").innerHTML="Incorrect
Captcha!Attempts remaining "+ count;
    }else{
        if(count>0){
            document.getElementById("para1").innerHTML="Captcha
matched!";
        }
    }
}
</script>
<div style="margin: 100px auto;">
    <h1>Captcha</h1>
    <br>
    <p id="textBox">Enter captcha: <input type="text"
id="inputCaptcha"></p>
    <button onclick="myfunc()" id="submitButton">Check</button>
    <br/>
    <p id="para1"></p>
</div>
</body>
</html>

```

Web page screenshot

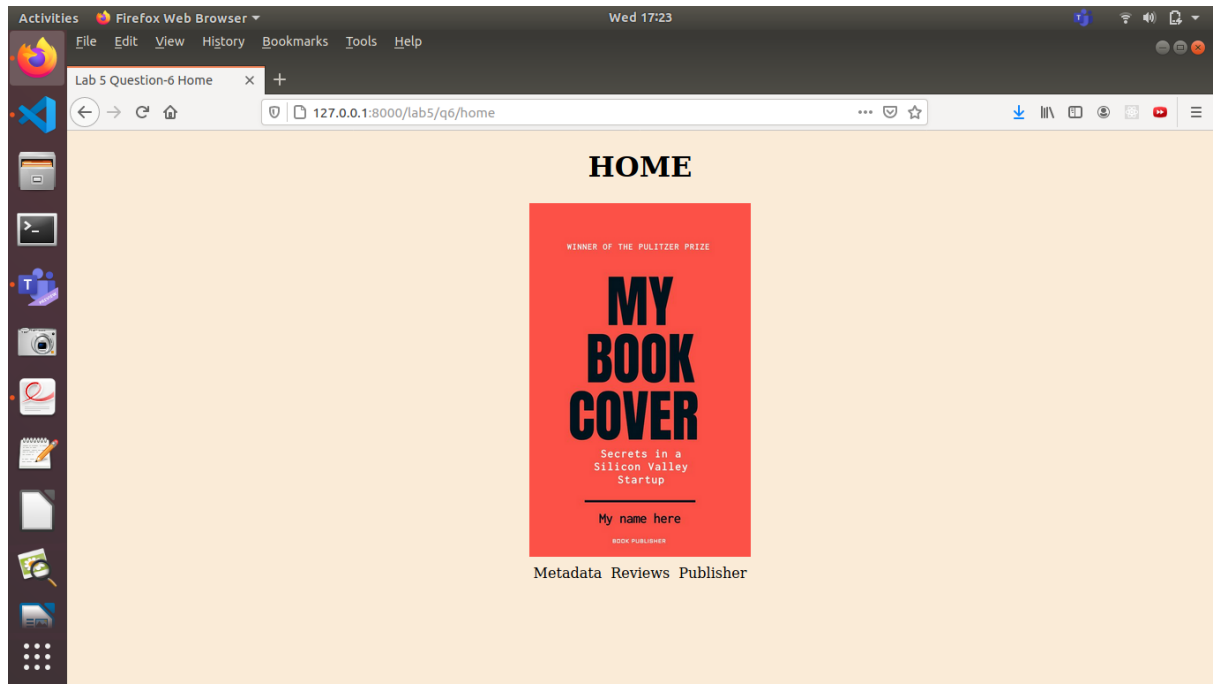


Q6- Specific Files

Lab5/lab5/templates/home.html

```
{% load static %}
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Lab 5 Question-6 Home</title>
</head>
<body>
    <style>
        body{
            background-color: antiquewhite;
        }
        a{
            text-decoration: none;
            color: black ;
        }
        .links{
            display: flex;
            flex-direction: row;
            justify-content: center;
            align-items: flex-end;
        }
        .links a{
            padding: 5px;
        }
    </style>
    <div style="text-align: center;">
        <h1>HOME</h1>
        
        <div class="links">
            <a href="metadata">Metadata</a>
            <a href="reviews">Reviews</a>
            <a href="publisher">Publisher</a>
        </div>
    </div>
</body>
</html>
```

Web page screenshot



Lab5/lab5/templates/metadata.html

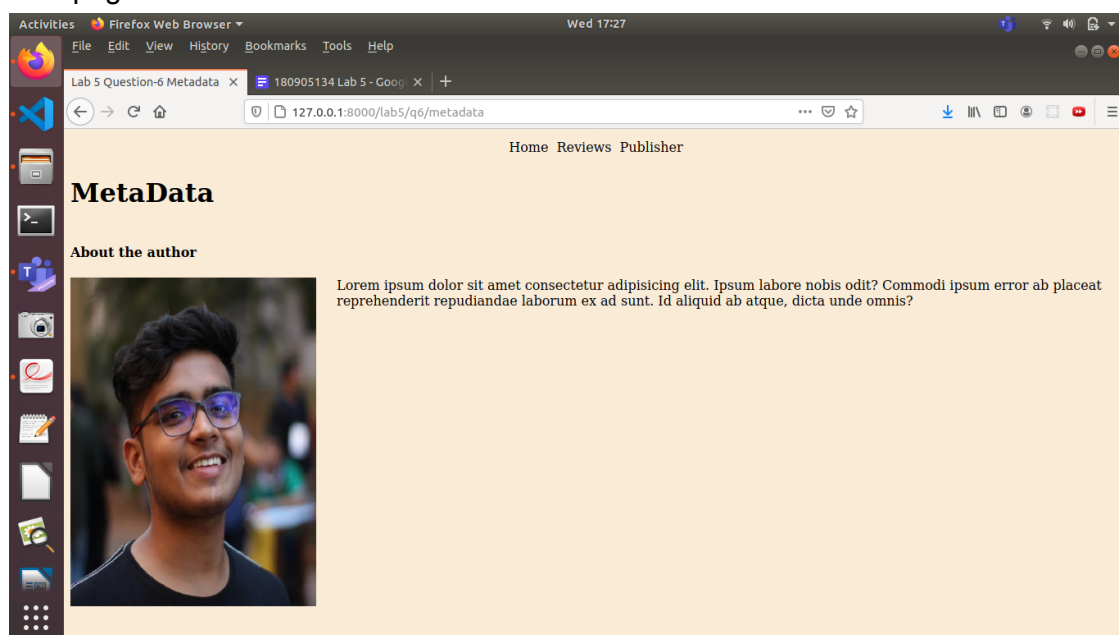
```
{% load static %}
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Lab 5 Question-6 Metadata</title>
</head>
<body>
  <style>
    body{
      background-color: antiquewhite;
    }
    a{
      text-decoration: none;
      color: black ;
    }
    .links{
      display: flex;
      flex-direction: row;
      justify-content: center;
      align-items: flex-end;
    }
    .links a{
      padding: 5px;
    }
  </style>
  <div class="links">
    <a href="#"></a>
    <a href="#"></a>
    <a href="#"></a>
  </div>
</body>
</html>
```

```

        li{
            list-style-type: none;
            border: 1px solid black;
            margin-right: 50px;
            margin-bottom: 10px;
        }
    </style>
    <div style="text-align: center;">
        <h1>Reviews by Critics</h1>
        <div class="links">
            <a href="home">Home</a>
            <a href="metadata">Metadata</a>
            <a href="publisher">Publisher</a>
        </div>
        <div class="reviews">
            <ul>
                <li>Brilliant -Sanskaar</li>
                <li>Amaze -Harsh</li>
                <li>Well written -Neeraja</li>
                <li>Thriller -Jayesh</li>
            </ul>
        </div>
    </div>
</body>
</html>

```

Web page screenshot



Lab5/lab5/templates/publisher.html

```
{% load static %}
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Lab 5 Question-6 Publisher</title>
</head>
<body>
    <style>
        body{
            background-color: antiquewhite;
        }
        a{
            text-decoration: none;
            color: black ;
        }

        .container{
            display: flex;
            flex-direction: column;
            text-align: center;
            justify-content: center;
            align-items: center;
            width: 500px;
            margin: auto;
        }

        .links{
            display: flex;
            flex-direction: row;
            justify-content: center;
            align-items: flex-end;
        }
        .links a{
            padding: 5px;
        }
    </style>
    <div class="links">
        <a href="home">Home</a>
        <a href="reviews">Reviews</a>
        <a href="metadata">Metadata</a>
    </div>
</body>
</html>
```

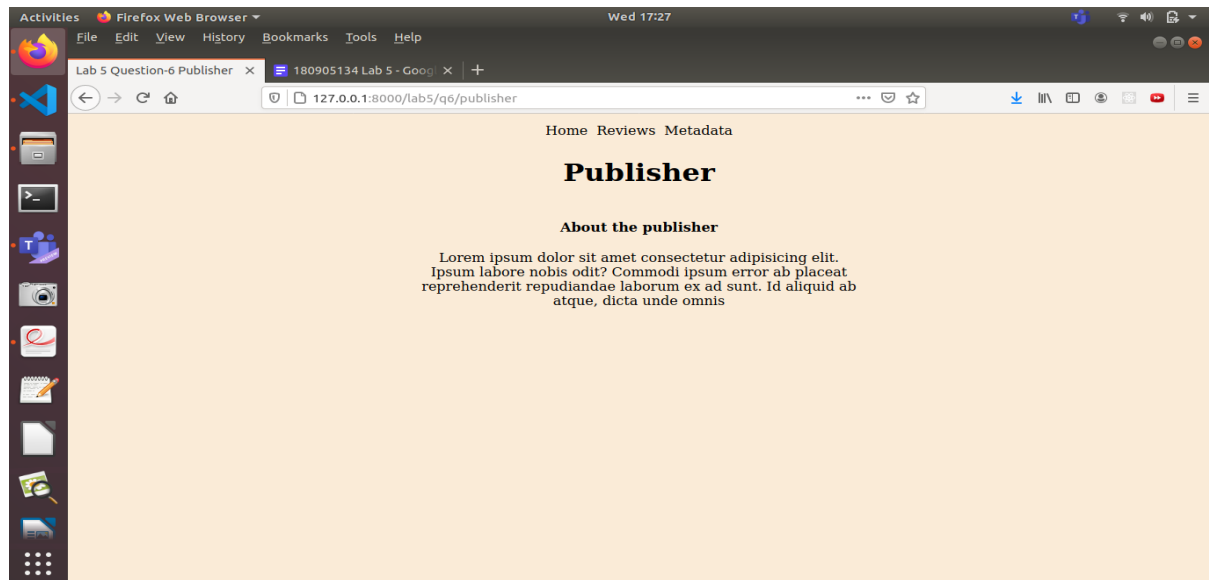


```

</div>
<div class="container">
  <h1>Publisher</h1>
  <h4>About the publisher</h4>
  <div>
    Lorem ipsum dolor sit amet consectetur adipisicing elit.
    Ipsum labore nobis odit? Commodi ipsum error ab placeat reprehenderit
    repudiandae laborum ex ad sunt. Id aliquid ab atque, dicta unde omnis
  </div>
</div>
</body>
</html>

```

Web page screenshot



Lab5/lab5/templates/reviews.html

```

{% load static %}
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Lab 5 Question-6 Reviews</title>
</head>
<body>
  <style>
    body{
      background-color: antiquewhite;
    }
    a{

```

```

        text-decoration: none;
        color: black ;
    }
    .links{
        display: flex;
        flex-direction: row;
        justify-content: center;
        align-items: flex-end;
    }
    .links a{
        padding: 5px;
    }

    li{
        list-style-type: none;
        border: 1px solid black;
        margin-right: 50px;
        margin-bottom: 10px;
    }
</style>
<div style="text-align: center;">
    <h1>Reviews by Critics</h1>
    <div class="links">
        <a href="home">Home</a>
        <a href="metadata">Metadata</a>
        <a href="publisher">Publisher</a>
    </div>
    <div class="reviews">
        <ul>
            <li>Brilliant      -Sanskaar</li>
            <li>Amaze        -Harsh</li>
            <li>Well written   -Neeraja</li>
            <li>Thriller       -Jayesh</li>
        </ul>
    </div>
</div>
</body>
</html>

```

Web page screenshot



Thank you